SCIAMACHY Operations Concept
III. Instrument States and Onboard Tables (PFM)

PO-TN-DLR-SH-0001/3
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SCIAMACHY Operations Support Team:

German Aerospace Center - DLR
German Remote Sensing Data Center - DFD
Oberpfaffenhofen, Germany

Institute of Remote Sensing
University of Bremen, Germany

supported by

Space Research Organization Netherlands - SRON
Stichting Ruimteonderzoek Nederland
Utrecht, The Netherlands

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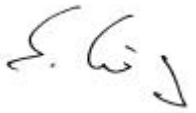
Change Record

Issue	Rev.	Date	Page	Description of Change
Draft		15.November 95	all	New document
1	0	30 November 95		Incorporation of comments provided by IfE, FSS-TPD-SRON, Dornier, DARA
2	0	25 July 96	all	update of measurement state parameters and addition of calibration state properties
3	0	30 January 99	all	major modifications to contents and parameter tables measurement parameter tables depicted with EEPROM-version & updated SW-version due to NCRs and DCRs engineering parameter tables included
3	1	30 May 01	See detailed change sheet	Implementation of all DCR's issued until March 2001, correction of faulty entries and editorial changes
3	2	22 July 01	See detailed change sheet	Implementation of DR-SCIA-0002DO/01 and TN117 iss.4
3	3	30 November 01	See detailed change sheet	Final implementation of TN117 iss.5 incl. state duration for ID59&61,. changed state duration for ID47&51,
3	4	09 January 02	See detailed change sheet	Final implementation of TN117 iss.5 for all Scanner basic positions of ASM UNUSED
4	0	20 March 03	all	Implementation of 'Final Flight' definitions
5	0	15 October 2003	all	OCR's and major edditorial rework

Signatures

	Name	Affiliation	Date	Signature
prepared:	E.Krieg	DLR-IMF-AP	15.10.03	
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Change description for Iss.3 rev.1

Page affected	Reason for change	Description of change
v	Identification of changes	New table
10	Table adapted to SW 22.004	State summaries for ID 48;52;62 changed
13	editorial	Text supplemented with explanations
14	Tracing of implementation of DCR's	New table
17	Correction of range	Range for relative Scan Profile Factor now =-128.. +127
38 & 39	editorial	Doubled tables removed
56	Correction of EEPROM table entry	Value corrected at ID 56 & 57 in phase 2 for elevation basic scan profile identifier to '5'
60	Correction of EEPROM table entry	Value corrected at ID 61 in phase 2 for duration of phase to '00010000'
61	editorial	Change marking at ID 61 in phase 2 for duration of phase removed
70 to 73	Table appearance	Swap sequence of detector channels (see headers: '2b ; 2a')
74	editorial	Character set for unit PET now symbol > =µsec
84	editorial	Ref. to TN-SCIA_1000FO/117 included
86	Correction of EEPROM table entry	Values forID61 in timing columns changed
88	editorial	DCR-list amended (DR-SCIA-0076DO/97 in ICU_SW V.2.03)
90 to 96	Correction of EEPROM table entries	Exchange of EEPROM tables (DR-SCIA-0076DO/97 in ICU_SW V.2.03
104	editorial	Character set for unit angle now symbol > =µrad & π
104	Correction of range	Range for Scan Rate now =-0,0327628 to +0,0327627
104	editorial	DCR-list amended
106	Correction of EEPROM table entries	Column Elevation Basic Scan Position exchanged
108	editorial	Character set for unit angle now symbol > =µrad & π
108	Correction of range	Range for Acceleration now =-327628 to +327627
116	Table appearance	Swap sequence of detector channels (see headers: '2b ; 2a')
118	editorial	DCR-list amended
124	Correction of EEPROM table entries	Cluster index 19 and 20 corrected
125	editorial	Change marking Cluster index 19 and 20 removed
128	editorial	Note: number of entries displayed is '53'
140	editorial	DCR-list amended
141	editorial	Inhibit Monitoring table: DCR-list amended
157	DR_SCIA_0010DO/98 in iss.3 rev.0 only partly implemented	Table 6.3: new limits for fault ID 105; 106, 112 implemented in RAM-table
167;171;173	DR_SCIA_0009DO/99	Table 5.4; 10,4; 14.4: fault ID 161 disabled in RAM-table
197	editorial	DCR-list supplemented by DR_SCIA_0004DO/00
207	DR_SCIA_0004DO/00	Fault ID 398 & 399: 2 parameters changed value to = '2'
217	DR_SCIA_0004DO/00	Fault ID 795: 1 parameter changed value to = '9'
223	editorial	Note added & DCR-list supplemented by DR_SCIA_0008DO/99 & by DR_SCIA_0001DO/01
225	DR_SCIA_0008DO/99 DR_SCIA_0001DO/01	SF Quad. Thresh. A to = '00165'; B to = '00045' Enc. Zero Offset A: AZ to = '-1,887788'; ELV to = '-0,335696'
228	editorial	Note added & DCR-list supplemented by DR_SCIA_0011DO/98 & by DR_SCIA_0003DO/99
231	DR_SCIA_0003DO/99	Setpoint temp. 1 to = ' -11,00'; Sensor_Gain_factor 1 to = ' -1,41'
234	editorial	Descriptive text updated
262	editorial	DCR-list supplemented by DR_SCIA_0114DO/97
265	DR_SCIA_0114DO/97	ENABLE_SYNC & TIME_CODE: new fault ID's added
272	editorial	Descriptive text updated

Page affected	Reason for change	Description of change
273 to 278	Table appearance	Swap sequence of detector channels (see headers: '2b ; 2a')
278	Value format	Sun_table: channel 2b & 2a PET now = '0,3125'
279	Correction for RAM_version	SLS-table corrected for DR_SCIA_0015DO/98
294	Value correction	Swath- end of line 1: ' ..scan speed 16°/sec.'
322	Editorial	ILOS: Descriptive text changed

Change description for Iss.3 rev.2

Page affected	Reason for change	Description of change
vi	Identification of changes	Table supplemented to cover iss.3 rev.2
14	Tracing of implementation of DCR's	Table supplemented to cover iss.3 rev.2
223	Tracing of implementation of DCR's	DR-SCIA-0002DO/01 added
225	Implementation of DR-SCIA-0002DO/01	Parameters for alpha0 encoder zero offset changed Parameter values for alignment errors inserted

Change description for Iss.3 rev.3

Page affected	Reason for change	Description of change
vi	Identification of changes	Table supplemented to cover iss.3 rev.3
10	Implementation of changed state duration in table 1	DUR changed for ID 47; 51; 56;59;61
14	Tracing of implementation of DCR's	Table supplemented to cover iss.3 rev.3
51;53;57;59; 61	Implementation of changed state duration	Duration of measurement single phases changed for ID 47; 51; 56;59;61 in §5.1.1
84	Tracing of implementation of DCR's	TN-SCIA-1000FO/117 iss.5 added DCN_SCIA_301101_DLR-IMF added
87	Implementation of changed state duration	SDPU Duration, WM & State Duration changed for ID 47; 51; 56;59;61 in §5.1.5
102	Tracing of implementation of DCR's	TN-SCIA-1000FO/117 iss.5 added
105	TN-SCIA-1000FO/117 iss.5	ASM basic profile 0 changed
275	Implementation of changed state duration	SDPU Duration, WM & State Duration changed for ID 47; 51; 56;59;61 in §A1.3
290	Editorial correction	µrad instead of mrad
291	TN-SCIA-1000FO/117 iss.5	ASM basic profile 0 changed
312;315;318 -,320	Implementation of changed state duration	State Duration changed for ID 47; 51; 56;59;61 in annex A.2

Change description for Iss.3 rev.4

Page affected	Reason for change	Description of change
vi	Identification of changes	Table supplemented to cover iss.3 rev.4
102	Tracing of implementation of DCR's	TN-SCIA-1000FO/117 iss.5 added
105	TN-SCIA-1000FO/117 iss.5	ASM basic profile 1, 4, 10, 11, 12 basic position changed
291	TN-SCIA-1000FO/117 iss.5	ASM basic profile 1, 4, 10, 11, 12 basic position changed

Change description for Iss.4 rev.0

Page affected	Reason for change	Description of change
document	New issue	Implementation of 'Final-Flight'- settings

Change description for Iss.5 rev.0

Page affected	Reason for change	Description of change
document	New issue	Implementation of OCR's and major editorial rework

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Abbreviations List

AO	Announcement of Opportunity
AOP	Announcement of Opportunity Provider
ASAR	Advanced Synthetic Aperture Radar
CTI	Configuration Table Interface
DCR	Documentation Change Request
DMOP	Detailed Mission Operations Plan
DSS	Dornier Satellitensysteme
EEPROM	Electrical Erasable Programmable Read Only Memory
ENVISAT	European Environmental Satellite
ESA	European Space Agency
ESOC	European Space Operations Centre
ESTEC	European Space Technology Centre
FOCC	Flight Operations Control Centre
FOS	Flight Operations Segment
GM	Global Mission
HK	Housekeeping
HLOP	High Level Operations Plan
ICD	Interface Control Document
ICU	Instrument Control Unit
IFOV	Instantaneous Field of View
IOM	Instrument Operations Manual
IST	Integrated System Team
LTM	Long-Term Monitoring
MCMD	Macrocommand
MERIS	Medium Resolution Imaging Spectrometer
MMS	Matra Marconi Space
NCR	Non Conformance Report
OCR	Operation Change Request
OLTM	Operational Long-Term Monitoring
PDCC	Payload Data Control Centre
PDS	Payload Data Segment
PEP	Payload Exploitation Plan
PET	Pixel Exposure Time
PFM	Protoflight Model
PMTC	Power Mechanism and Thermal Control Unit
PPF	Polar Platform
RAM	Random Access Memory
RD	Reference Document
RDMOP	Restituted Detailed Mission Operations Plan
ROP	Reference Operations Plan
RTCS	Relative Time Command Sequence
SCIAMACHY	Scanning Imaging Absorption Spectrometer for Atmospheric Chartography
SIRD	SCIAMACHY Instrument Requirements Document
SJT	SCIAMACHY Joint Team
SLS	Spectral Line Source
SO&C	Sun Occultation & Calibration
SOST	SCIAMACHY Operations Support Team
SPEVAL	Spacecraft Evaluation
STM	Short-Term Monitoring
S/W	Software
TC	Telecommand
TCFOV	Total Clear Field of View

TM	Telemetry
TN	Technical Note
WLS	White Light Source

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1 Scope and Purpose of the Document

This Technical Note (TN) is the third volume in the trilogy of the SCIAMACHY Operation Concept TNs describing the basic knowledge about SCIAMACHY operations planning. It served prior to launch as input to the development of the ENVISAT ground segment, in particular to those systems that are required for mission planning and timelining. During in-flight operations this TN is the repository to trace the configuration of the measurement state definitions. In that respect, the TN is strongly related to the other two TNs which outline the concept of mission scenarios (SCIAMACHY Operations Concept: I. Mission Scenarios, PO-TN-DLR-SH-0001/1) and timeline generation (SCIAMACHY Operations Concept: II. Timeline Generation Rules and Reference Timelines, PO-TN-DLR-SH-0001/2). Although each individual TN can be treated as a separate document, the full picture of the operations concept can only be obtained by dealing with all three TNs.

The 5th issue of the TN is prepared based on the parameter settings as defined for the implementation of the *'FINAL-FLIGHT'*-states and subsequent corrections. These parameter settings reflect a set of state parameters based on the evaluation of measurements executed during the SODAP and CAL/VAL-phase of SCIAMACHY in 2002 and the issue of some OCR's between December 2002 and October 2003. The presently defined states and sets of parameters reflect the knowledge base of the instrument performance and operation at time of issue of this document in compliance with the scientific requirements. This onboard version of the parameter settings differs greatly from the EEPROM-version in nearly every respect resulting in a very large number of changes.

Also the present Issue 5 Rev. 0 of this TN representing the 'FINAL-FLIGHT'-states will further undergo the iterative process of optimising instrument measurement states and state parameters, which will continue throughout the life of SCIAMACHY. The involved parties will continue to use the established procedures for implementation and configuration control for updates of parameters, whenever these are required from a scientific or technical point of view. This issue is not addressed here but is covered in several dedicated interface documents issued by ESA and SCIAMACHY project management.

Issue 5 of this TN, which provides the state definitions for final flight states and instrument engineering parameter settings, differs from issue 4 mainly in the following areas

- update/redefinition of measurement and calibration/monitoring states to reflect the instrument status at time of issue of this TN
- inclusion of all OCR's issued
- high number of corrections of editorial nature

Note: in this issue the comparison between the final EEPROM-version ICU_SW V.2.03 and the present status of the inflight RAM is presented. In the preface of each parameter table in chapters 5 to 7 reference is given only to changes initiated via OCR after the definition of the first 'Final-Flight'-configuration. Chapter 8 shows references to all documents , which initiated updates to engineering parameter tables.

2 Reference Documents

RD 1 Instrument Operation Manual, DSS/FS, MA-SCIA-0000DO/01, Issue F

RD 2 SCIAMACHY Operations Concept: I. Mission Scenarios, DLR-DFD, PO-TN-DLR-SH-0002/1, Issue 3 Rev. 0, 15 October 2001

RD 3 SCIAMACHY Operations Concept: II. Timeline Generation Rules and Reference Timelines, DLR-DFD, PO-TN-DLR-SH-0001/2, Issue 3 Rev. 0, 31 October 2001

RD 4 SCIAMACHY Scientific Requirements, University of Bremen/DARA, PO-RS-DAR-SH-0002, Issue Draft 1,

RD 5 SCIAMACHY Instrument Requirements Document, DARA, PO-RS-DAR-EP-0001, Issue 3 Rev 1, 12 December 1995

RD 6 PMTC/Scanner Algorithm Parameters, Dornier, TN-SCIA-0000DO/13 Issue C, 21 December1999

RD 7 PMTC/Scanner Operation and Commanding, Dornier, TN-SCIA-0000DO/10 Issue B, 22 December 2001

RD 8 SCIAMACHY Operations Concept and Control Facilities within ESA/ESOC, ESA, PO-TN-ESA-GS-0263, Issue 1, Rev. 0, April 1995

RD 9 Instrument Design Description, Dornier, MM-SCIA-0028DO/93, 10 December 1993

RD 10 Description of the Operational Concept of SCIAMACHY, Dornier, TN-SCIA-0000DO/01, 15 December 1993

RD 11 SCIAMACHY Scientific Requirements for Calibration and Characterisation, SRON, Issue Draft 3, 3 April 1995

RD 12 SCIAMACHY Calibration Plan, FSS-TPD-SRON, PL-SCIA-10000TP/022, Issue 1, 24 July 1995

RD 13 Optical Assembly Requirements and Constraints for In-Flight Operation and Calibration, TN-SCIA-1000FO/117

RD 14 [R 12] State Definition Dokument, Dornier, Handout, 19 September 1995

RD 15 SCIAMACHY In-Flight Calibration and Monitoring Operation, States, and Timelines, SRON-SCIA-MD-IFCM, Issue 2, 12 February 1996

RD 16 SCIAMACHY In-Flight Calibration and Monitoring Operation, States, and Timelines, SRON-SCIA-MD-IFCM, Issue 3, change pages, 5 March 1996

RD 17 SCIAMACHY In-Flight Calibration and Monitoring Concept, SRON-SCIA-MD-CALCONC, Issue 1, 2 May 1996

RD 18 SCIAMACHY PETs, INTs and DURs for calibration states, SRON Fax, SRON-EOS-MD-FAX-96/011, 17 April 1996

RD 19 SCIAMACHY State & Cluster Definition for Nadir & Limb states, IfE Fax, IFE-FAX-240496A-HB, 24 April 1996

RD 20 SCIAMACHY State & Cluster Definition for Nadir & Limb states, IfE Fax, IFE-FAX-030596A-HB, 3 May 1996

RD 21 SCIAMACHY Cluster Definition & Data Rate Optimization, IfE fax, IFE-FAX-100596A-HB, 10 May 1996

RD 22 SCIAMACHY State list & Coadding Tables/PET, IfE fax, IFE-FAX-130696A-JF, 30 May 1996

RD 23 SCIAMACHY State list & Coadding Tables/PET, IfE fax, IFE-FAX-130696A-JF, 13 June 1996

RD 24 Minutes of Parameter Freezing for Final Flight States no. II, PO-MN-DAR-SH-0189, 25 July 2001

RD 25 SCIAMACHY Operations Concept Update, PO-TN-DLR-SH-0011, Issue 1, 30 June 2001

3 Timeline Execution and Instrument States

Instrument states are the smallest building block in the frame of operations timelining. The basic rules how to use these building blocks when generating sequences of instrument activities are listed in the TN about timeline generation rules (SCIAMACHY Operations Concept: II. Timeline Generation Rules and Reference Timelines, PO-TN-DLR-SH-0001/2). In summary, the state definitions have to obey the following boundary conditions

- maximum number of states is 70
- states are defined by sets of parameters
- states are controlled by Relative Time Command Sequences (RTCSs)
- states can be modified by macrocommands (MCMDs)

This TN will provide the information on the currently defined states, i.e. the assignment of state identifiers to specific measurement categories and specific parameters. The corresponding parameter tables are maintained under configuration control by SOST. Any modifications present and in future to the parameters or even state definitions follow defined procedures. Fig. 1 and 2 depict the logic flow between various types of tables when executing a timeline. Shaded boxes in fig. 1 indicate the corresponding tables presented in this TN. For the hatched boxes, the general layout of the tables is given. In fig. 2 the relation between the tables is shown for a specific case in more detail. Each table serves a specific function (see also chapter 5). The table functions are as follows.

A timeline is started by a *START_TIMELINE* MCMD. This MCMD enters the RTCS Table where, after the corresponding RTCS for the start of the timeline has run to completion, the identifier of the instrument_timeline is transferred to the

⇒ TIMELINE INDEX Table:
The identifier of the instrument_timeline is correlated with the start index for the instrument_timeline in the TIMELINE table. The TIMELINE INDEX table has 63 entries (identifiers from 1 to 63) corresponding to the maximum number of instrument_timelines to be stored onboard.

⇒ TIMELINE Table:
The start index of the instrument_timeline defines the location of the instrument_timeline in the TIMELINE table. The TIMELINE table has 4096 entries, i.e. the sum of all entries for all 63 instrument_timelines must not exceed this number. Each instrument_timeline ends with an END OF TIMELINE entry. Note that the END OF TIMELINE entry counts like a separate state entry in an instrument_timeline. The identifiers of the states in the sequence of an instrument_timeline are listed sequentially in the TIMELINE table with the first state being found at the start index.

⇒ STATE RTCS INDEX Table:
For each state identifier from the TIMELINE table, the STATE RTCS INDEX table provides the start index of the RTCS associated with that state. The RTCS INDEX table has 70 entries, corresponding to the maximum number of states. The RTCS start index is transferred to the RTCS table and the state is executed.

⇒ RTCS Table:
Each RTCS is listed in the RTCS table with its sequence of primitive commands. A total of 1000 primitive commands can be stored. The RTCS start index defines the location where the first primitive command to execute the RTCS (i.e. the state) can be found.

Note: There are two types of RTCS: NORMAL RTCS (e.g. *STR_TML*) and STATE RTCS (STT_01-STT_15). All NORMAL RTCS are designed such that only one Primitive Command is executed at any given point in time. STATE RTCS are designed such that only one Primitive Command is executed in each of the three processors ICU, PMTC and SDPU at any given point in time. Hence

not more than three Primitive Commands can be executed simultaneously. This concept allows to shorten the execution time of STATE RTCS when preparing a measurement or when cleaning up after measurement. The execution of a state is controlled only by one particular STATE RTCS (see table 2) and by parameters, defined in various STATE Parameter and COMMON Parameter tables.

⇒ STATE Parameter and COMMON Parameter Tables:
These tables contain the information relevant for the execution of the state. The parameters can be grouped into different classes according to their functional purpose (see also fig. 4 in chapter 5). Note that only a fraction of the COMMON Parameters will be described in the TN in detail, i.e. those that have a direct impact on STATE Parameter tables.

After the execution of the state (end of the corresponding RTCS), the ID of the next state in the instrument_timeline is read from the TIMELINE table and the sequence TIMELINE table - RTCS INDEX table - RTCS table (with state execution) occurs again. This loop is executed until the END OF TIMELINE entry at the end of the instrument_timeline is reached. Control is then returned to outside the instrument_timeline execution chain and a new instrument_timeline, if required within an orbit_timeline, can be started.

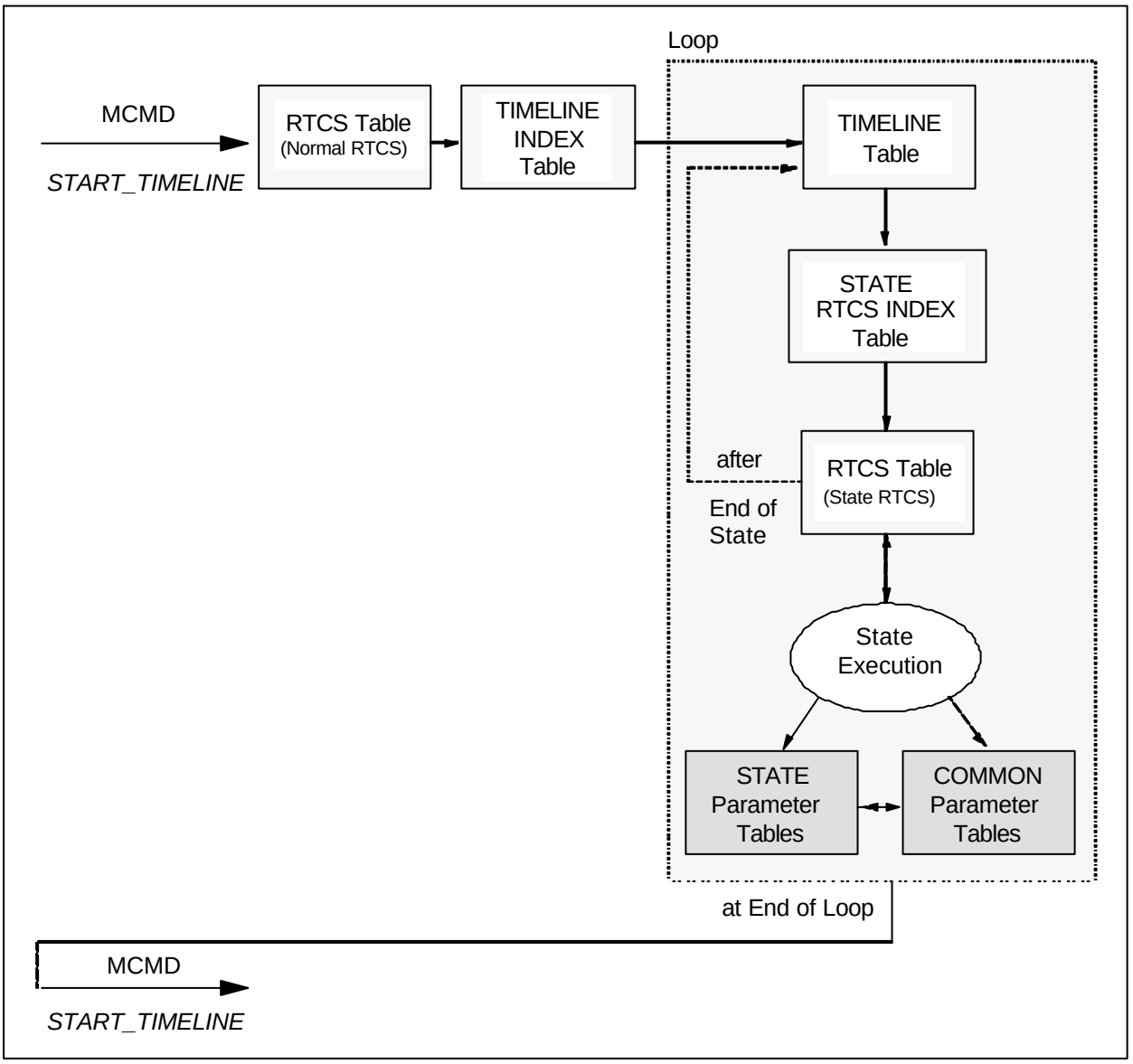

Figure 1: **Timeline Execution - General Flow**

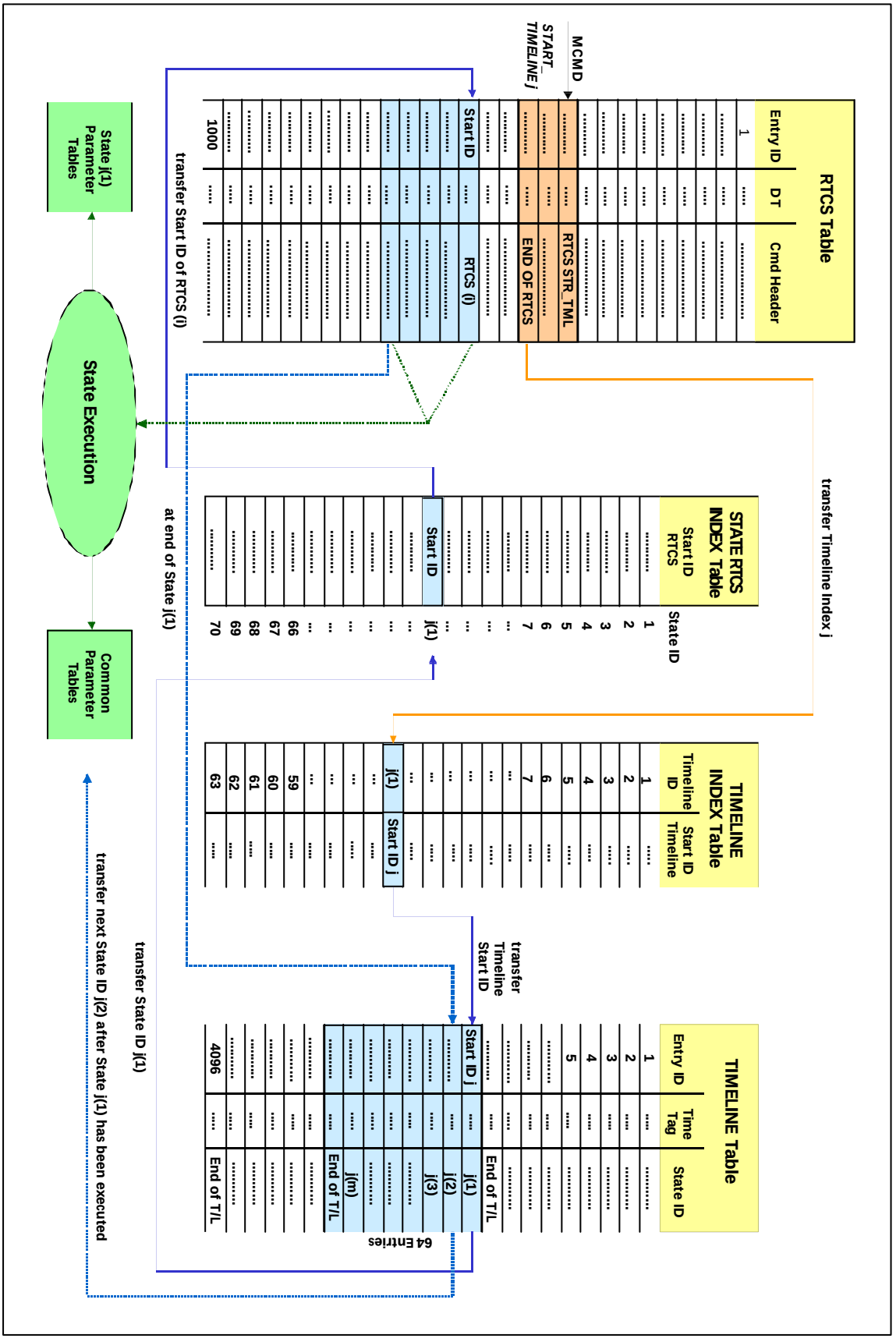

Figure 2: **Timeline Execution - Detailed Flow**

4 State Summary and Orbit Dependence

The current definition of the 70 states, i.e. the assignment of specific measurement categories with specific parameter sets to a state identifier i ($1 \leq i \leq 70$) is outlined in table 1. The table presented reflects the status of the Final Flight configuration as loaded into RAM October 15th 2003.

Table 1 is a top level table which does not play a role in the actual timeline execution as depicted in fig. 3. Tables that will provide insight into the parameter space are depicted in chapter 5. The columns in table 1 have the following meaning:

State ID	State identifier
State Acronym	Acronym used in the definition of reference timelines
Function	Purpose of state
Cat. (Type)	Title of state
Cat. (ID)	Measurement category
Orbital Position	Position in orbit (in degrees) where state should be executed. The definition is in a sun fixed reference frame. Origin (0 degrees) is the orbital position close to the SO&C window perpendicular to the centroid of the sub-solar window.
RTCS	RTCS controlling state execution
Description	Short description of major state properties
Timing	State timing properties related to measurement (no. setup and cleanup)
ESM	Status of Elevation Scan Mechanism
ASM	Status of Azimuth Scan Mechanism
NCWM	Nadir Calibration Window Mechanism
APSM	Aperture Stop mechanism
NDFM	Neutral Density Filter Mechanism
WLS	White Light Source
SLS	Spectral Lamp Source
Scan Speed	Scan speed (ILOS) for measurement states (1st line: ESM, 2nd line: ASM)
Cluster Definition Index	assigned Cluster Definition

NOTE:
because of pending OCRs some states described here in table 1 may become subject to further modifications.

Table 2 summarises the properties of the RTCS used in the definition of the states.

It is obvious in table 1 that most of the states are reserved for scientific measurement categories (limb, nadir, SO&C, MO&C). This fact is partially due to the requirement to implement a flexible exposure time scheme. With the sunlight incidence angle (w.r.t. the atmosphere) being a function of latitude, the intensity of the reflected and scattered light measured in orbit varies with orbital position. Therefore, in order to achieve signal-to-noise ratios in the observed radiances which allow accurate retrieval of atmospheric trace gases and to avoid saturation, exposure times and co-adding factors for limb and nadir categories must also be latitude dependant, i.e. they vary across the orbit.

Fig. 3 displays this relation. The shaded inner disk represents the Earth with arrows pointing at three sun fixed positions. The sun is located to the right. A sun fixed reference system can be defined with its origin close to the North Pole (the 90°-axis points towards the sun in the ecliptic plane). Three rings above the Earth disk indicate the orbital positions of nadir, sun/moon fixed and limb states (each number in a cell within the ring refers to the state IDs of table 1). Note that over the North polar region limb states start

significantly prior to the SO&C window because they sense atmospheric volumes which lie sufficiently ahead of the instrument, i.e. they are already illuminated by the rising sun. Measurements in nadir mode have to wait until the spacecraft has reached a position in orbit where the atmosphere below the instrument is hit by the first sunlight. In the South polar region this relation reverses. The orbital location of the MO&C window is only sketched. Analysis of Sun and Moon visibility in SCIAMACHY's FOV indicates that the rising Moon can be seen over a wide latitude range in the southern hemisphere depending on the time of observation and whether it is measured at the beginning or end of a monthly period.

The non-illuminated part of the orbit (eclipse period) will mainly be used for calibration and nadir-eclipse measurements and also for any scheduled maintenance purposes.

State Acro-nym	Function	Cat. (Type)	Cat. (ID)	Orbital Position	RTCS	Description	Timing (measurement duration only) (INT: max. integration time)	ESM	ASM	NCWM	APSM	NDFM	WLS	SLS	Scan speed (deg/s)	Cluster Definition Index
nad01	Scientific Measurement	Nadir	1	<-3 & > 183	STT_01	ESM: scanning swath width: 940 km	PET: N1 INT: N1 Dur: 80s	u.	n.u.	closed	large	out	off	off	16	3
nad02	Scientific Measurement	Nadir	1	(-3 to 5) & (175 to 183)	STT_01	ESM: scanning swath width: 940 km	PET: N2 INT: N2 Dur: 80s	u.	n.u.	closed	large	out	off	off	16	3
nad03	Scientific Measurement	Nadir	1	(5 to 16) & (164 to 175)	STT_01	ESM: scanning swath width: 940 km	PET: N3 INT: N3 Dur: 80s	u.	n.u.	closed	large	out	off	off	16	3
nad04	Scientific Measurement	Nadir	1	(16 to 26) & (154 to 164)	STT_01	ESM: scanning swath width: 940 km	PET: N4 INT: N4 Dur: 65s	u.	n.u.	closed	large	out	off	off	16	3
nad05	Scientific Measurement	Nadir	1	(26 to 36) & (144 to 154)	STT_01	ESM: scanning swath width: 940 km	PET: N5 INT: N5 Dur: 65s	u.	n.u.	closed	large	out	off	off	16	3
nad06	Scientific Measurement	Nadir	1	(36 to 70) & (110 to 144)	STT_01	ESM: scanning swath width: 940 km	PET: N6 INT: N6 Dur: 65s	u.	n.u.	closed	large	out	off	off	16	3
nad07	Scientific Measurement	Nadir	1	(70 to 110)	STT_01	ESM: scanning swath width: 940 km	PET: N7 INT: N7 Dur: 65s	u.	n.u.	closed	large	out	off	off	16	3
dcc05	Calibration	Dark_Current_ Calibration	12	0 to 360	STT_01	ESM: pointing to deep space (250km above horizon) ASM: pointing to deep space	PET: Dark_Current 5 INT: 5s Dur: 40s	fix. pos.	fix. pos.	closed	large	out	off	off	0 0	1
nad09	Scientific Measurement	Nadir	1	<-3 & > 183	STT_01	ESM: scanning swath width: 117 km	PET: N1 INT: N1 Dur: 80s	u.	n.u.	closed	large	out	off	off	2	3
nad10	Scientific Measurement	Nadir	1	(-3 to 5) & (175 to 183)	STT_01	ESM: scanning swath width: 117 km	PET: N2 INT: N2 Dur: 80s	u.	n.u.	closed	large	out	off	off	2	3
nad11	Scientific Measurement	Nadir	1	(5 to 16) & (164 to 175)	STT_01	ESM: scanning swath width: 117 km	PET: N3 INT: N3 Dur: 80s	u.	n.u.	closed	large	out	off	off	2	3
nad12	Scientific Measurement	Nadir	1	(16 to 26) & (154 to 164)	STT_01	ESM: scanning swath width: 117 km	PET: N4 INT: N4 Dur: 65s	u.	n.u.	closed	large	out	off	off	2	3
nad13	Scientific Measurement	Nadir	1	(26 to 36) & (144 to 154)	STT_01	ESM: scanning swath width: 117 km	PET: N5 INT: N5 Dur: 65s	u.	n.u.	closed	large	out	off	off	2	3
nad14	Scientific Measurement	Nadir	1	(36 to 70) & (110 to 144)	STT_01	ESM: scanning swath width: 117 km	PET: N6 INT: N6 Dur: 65s	u.	n.u.	closed	large	out	off	off	2	3
nad15	Scientific Measurement	Nadir	1	(70 to 110)	STT_01	ESM: scanning swath width: 117 km	PET: N7 INT: N7 Dur: 65s	u.	n.u.	closed	large	out	off	off	2	3
lwnd02	Monitoring	NDF_Monitoring ND Filter OUT	21	0 to 360	STT_05	ESM: fix non-optimal WLS pos.: 10.673deg	PET: NDF Monitoring INT: 4s Dur: 12s	u.	n.u.	closed	large	out	on	off	0	1
ascd01	Calibration	Sun_ASM_Diffuser _Calibration	23	SO&C window; Sun above atm.	STT_09	ESM: pointing to altitude 250 km ASM: diffuser normal to 264deg	PET: Sun_ASM_Diffuser INT: 1s Dur: 30s	u.	n.u.	closed	large	out	off	off	0 0,27	1
ascd02	Calibration	Sun_ASM_Diffuser _Calibration	23	SO&C window; Sun above atm.	STT_09	ESM: pointing to altitude 250 km ASM: diffuser normal to 266deg	PET: Sun_ASM_Diffuser INT: 1s Dur: 30s	u.	n.u.	closed	large	out	off	off	0 0,27	1
ascd03	Calibration	Sun_ASM_Diffuser _Calibration	23	SO&C window; Sun above atm.	STT_09	ESM: pointing to altitude 250 km ASM: diffuser normal to 268deg	PET: Sun_ASM_Diffuser INT: 1s Dur: 30s	u.	n.u.	closed	large	out	off	off	0 0,27	1
ascd04	Calibration	Sun_ASM_Diffuser _Calibration	23	SO&C window; Sun above atm.	STT_09	ESM: pointing to altitude 250 km ASM: diffuser normal to 270deg	PET: Sun_ASM_Diffuser INT: 1s Dur: 30s	u.	n.u.	closed	large	out	off	off	0 0,27	1
ascd05	Calibration	Sun_ASM_Diffuser _Calibration	23	SO&C window; Sun above atm.	STT_09	ESM: pointing to altitude 250 km ASM: diffuser normal to 272deg	PET: Sun_ASM_Diffuser INT: 1s Dur: 30s	u.	n.u.	closed	large	out	off	off	0 0,27	1
asad01	Monitoring	Sun_ASM_Diffuser _Atmosphere	25	SO&C window; Sun through atm.	STT_09	ESM: pointing to altitude 17,2 km ASM: diffuser normal to 266deg	PET: Sun_ASM_Diffuser INT: 1s Dur: 32s	u.	n.u.	closed	large	out	off	off	0 0,27	1
nad23	Scientific Measurement	Nadir_pointing	3	<-3 & > 183	STT_01	ESM: Nadir pointing	PET: N1 INT: N1 Dur: 80s	u.	n.u.	closed	large	out	off	off	0	3
nad24	Scientific Measurement	Nadir_pointing	3	(-3 to 5) & (175 to 183)	STT_01	ESM: Nadir pointing	PET: N2 INT: N2 Dur: 80s	u.	n.u.	closed	large	out	off	off	0	3
nad25	Scientific Measurement	Nadir_pointing	3	(5 to 16) & (164 to 175)	STT_01	ESM: Nadir pointing	PET: N3 INT: N3 Dur: 80s	u.	n.u.	closed	large	out	off	off	0	3
dcc04	Calibration	Dark_Current_ Calibration	12	0 to 360	STT_01	ESM: pointing to deep space (250km above horizon) ASM: pointing to deep space	PET: Dark_Current 4 INT: 0,5s Dur: 30s	fix. pos.	fix. pos.	closed	large	out	off	off	0 0	1
elimb01	Scientific Measurement	Limb_Mesopshere	26	eclipse	STT_01	ESM: scanning ASM: scanning swath width: 120 km	PET: L6 INT: L6 Dur:40,5s	u.	n.u.	closed	large	out	off	off	steps 0	1
limb01	Scientific Measurement	Limb	2	< -20	STT_01	ESM: scanning ASM: scanning swath width: 960 km	PET: L1 INT: L1 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 11	1
limb02	Scientific Measurement	Limb	2	-20 to -12	STT_01	ESM: scanning ASM: scanning swath width: 960 km	PET: L2 INT: L2 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 11	1
limb03	Scientific Measurement	Limb	2	(-12 to 9) & (146 to 157)	STT_01	ESM: scanning ASM: scanning swath width: 960 km	PET: L3 INT: L3 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 11	1
limb04	Scientific Measurement	Limb	2	(9 to 20) & (125 to 146)	STT_01	ESM: scanning ASM: scanning swath width: 960 km	PET: L4 INT: L4 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 11	1
limb05	Scientific Measurement	Limb	2	(20 to 125)	STT_01	ESM: scanning ASM: scanning swath width: 960 km	PET: L5 INT: L5 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 11	1
limb06	Scientific Measurement	Limb	2	> 157	STT_01	ESM: scanning ASM: scanning swath width: 960 km	PET: L6 INT: L6 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 11	1
limb11	Scientific Measurement	Limb	2	(9 to 20) & (125 to 146)	STT_01	ESM: scanning ASM: scanning swath width: 120 km	PET: L4 INT: L4 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 11	1
limb08	Scientific Measurement	Limb	2	< -20	STT_01	ESM: scanning ASM: pointing swath width: 120 km	PET: L1 INT: L1 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 0	1

State Acro-nym	Function	Cat. (Type)	Cat. (ID)	Orbital Position	RTCS	Description	Timing (measurement duration only) (INT: max. integration time)	ESM	ASM	NCWM	APSM	NDFM	WLS	SLS	Scan speed (deg/s)	Cluster Definition Index
limb09	Scientific Measurement	Limb	2	-20 to -12	STT_01	ESM: scanning ASM: pointing swath width: 120 km	PET: L2 INT: L2 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 0	1
limb10	Scientific Measurement	Limb	2	(-12 to 9) & (146 to 157)	STT_01	ESM: scanning ASM: pointing swath width: 120 km	PET: L3 INT: L3 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 0	1
lnad01	Monitoring	Nadir_pointing _left	24	0 to 360	STT_01	ESM: fix position 32.5deg left	PET: N7 INT: N7 Dur: 65s	u.	n.u.	closed	large	out	off	off	0	3
dcchm	Calibration	Dark_Current_ Calibration_HM	20	0 to 360	STT_09	ESM: fix WLS pos.: 10.52deg	PET: wls_table INT: 2/1 s Dur: 12s	u.	u.	closed	large	out	off	off	0	1
limb13	Scientific Measurement	Limb	2	> 157	STT_01	ESM: scanning ASM: pointing swath width: 120 km	PET: L6 INT: L6 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 0	1
limb12	Scientific Measurement	Limb	2	(20 to 125)	STT_01	ESM: scanning ASM: pointing swath width: 120 km	PET: L5 INT: L5 Dur: 52,31s	u.	u.	closed	large	out	off	off	steps 0	1
nad26	Scientific Measurement	Nadir_ pointing	3	(16 to 26) & (154 to 164)	STT_01	ESM: Nadir pointing	PET: N4 INT: N4 Dur: 65s	u.	n.u.	closed	large	out	off	off	0	3
nad27	Scientific Measurement	Nadir_ pointing	3	(26 to 36) & (144 to 154)	STT_01	ESM: Nadir pointing	PET: N5 INT: N5 Dur: 65s	u.	n.u.	closed	large	out	off	off	0	3
nad28	Scientific Measurement	Nadir_ pointing	3	(36 to 70) & (110 to 144)	STT_01	ESM: Nadir pointing	PET: N6 INT: N6 Dur: 65s	u.	n.u.	closed	large	out	off	off	0	3
nad29	Scientific Measurement	Nadir_ pointing	3	(70 to 110)	STT_01	ESM: Nadir pointing	PET: N7 INT: N7 Dur: 65s	u.	n.u.	closed	large	out	off	off	0	3
dcc 01	Calibration	Dark_Current_ Calibration	12	0 to 360	STT_01	ESM: pointing to deep space (250km above horizon) ASM: pointing to deep space	PET: Dark_Current 1 INT: 125ms_HR/500ms_LR Dur: 10s	fix. pos.	fix. pos.	closed	large	out	off	off	0 0	1
sos 02	Scientific Measurement, Calibration	SO&C_Scanning/ Pointing	4	SO&C window start at sunrise to sun above atm.	STT_02	ESM: nominal scan ASM: ICU/SFS control SFS: pointing at end of scan sequence	PET: suntable INT: 62,5ms_HR/500ms_LR Dur: 64s+2s_point	u.	u.	closed	small	in	off	off	0,33 0	1
lwnd01	Monitoring	NDF_Monitoring ND Filter IN	22	0 to 360	STT_10	ESM: fix non-optimal WLS pos. 10.673deg	PET: NDF Monitoring INT: 4s Dur: 12s	u.	n.u.	closed	large	in	on	off	0	1
sos01	Scientific Measurement, Calibration	SO&C_scanning_ long_Duration	4	SO&C window sunrise to upper limb wind. edge	STT_02	ESM: nominal scan ASM: ICU/SFS control SFS: operating	PET: suntable INT: 62,5ms_HR/500ms_LR Dur: 130s	u.	u.	closed	small	in	off	off	0,33 0	1
scs 01	Calibration	SO&C_Scanning	4	SO&C window sun above atm.	STT_02	ESM: fast sweep of 125ms, 12 scans ESM: ICU control for sun tracking SFS: inactive	PET:sun_fast_sweep_table INT: 125ms_HR/500ms_LR Dur: 3s	u.	u.	closed	small	in	off	off	22,4 0	1
sop01	Scientific Measurement, Calibration	SO&C_Pointing	5	SO&C window start at sunrise to sun above atm.	STT_02	ESM: SFS control ASM: ICU/SFS control SFS: centre pointing to sun	PET: suntable INT: 62,5ms_HR/500ms_LR Dur: 64s	u.	u.	closed	small	in	off	off	0 0	1
escd01	Calibration	Sun_ESM_Diffuser_ Calibration, ND-Filter OUT	8	SO&C window sun above atm.	STT_09	ESM: diffuser pos.: 22.5deg ASM: ICU control SFS: inactive	PET: sun_diffuser_table INT: 125ms_HR/500ms_LR Dur: 30s	diff. pos.	u.	closed	large	out	off	off	0 0	1
sscp02	Calibration	Sub_Solar_ Calibration_ Pointing	9	Sub-solar window	STT_03	ESM: sfs control SFS: pointing in elevation	PET: suntable INT: 62,5ms_HR/500ms_LR Dur: 22s	u.	n.u.	open	small	in	off	off	0	1
mos01	Calibration	Moon_Scanning	7	MO&C moon above atm.	STT_01	ESM: nominal scan, 5 scans ASM: SFS control SFS: operating	PET: moontable INT: 2s Dur: 12s	u.	u.	closed	large	out	off	off	0,33 0	1
mop03	Scientific Measurement	MO&C_Pointing_ Troposphere	6	MO&C window at moonrise to moon above atm	STT_01	ESM: ICU/SFS control ASM; ICU/SFS control SFS: centre pointing to moon	PET: moontable INT: 2s Dur: 142s	u.	u.	closed	large	out	off	off	0 0	1
mop01	Scientific Measurement, Calibration	MO&C_Pointing	6	MO&C window at moonrise to moon above atm	STT_01	ESM: ICU/SFS control ASM; ICU/SFS control SFS: centre pointing to moon	PET: moontable INT: 2s Dur: 40s	u.	u.	closed	large	out	off	off	0 0	1
mop02	Scientific Measurement, Calibration	Moon_pointing_ long_duration	6	MO&C window moonrise to upper limb wind. edge	STT_01	ESM: ICU/SFS control ASM: ICU/SFS control SFS: centre pointing to moon	PET: moontable INT: 2s Dur: 128s	u.	u.	closed	large	out	off	off	0 0	1
sscp01	Calibration	Sub_Solar_ Calibration_ Pointing/Scanning	9	Sub-solar window	STT_03	ESM: nominal scan SFS: pointing before scan	PET: suntable INT: 62,5ms_HR/500ms_LR Dur: 22s	u.	n.u.	open	small	in	off	off	0,33	1
lsc01	Calibration	Spectral_Lamp_ Calibration	10	0 to 360	STT_04	ESM: fix SLS pos. 9.77deg	PET: sls_table INT: 4s Dur: 12s	sls pos.	n.u.	closed	large	out	off	on	0	1
sscs01	Calibration	Sub_Solar_ Calibration_ Scanning	9	Sub-solar window	STT_03	ESM: fast sweep of 125ms, 88 scans ESM: ICU control for sun tracking SFS: inactive	PET:sun_fast_sweep_table INT: 125ms_HR/500ms_LR Dur: 22s	u.	n.u.	open	small	in	off	off	22,4	1
lwc01	Calibration	White_Lamp_ Calibration	11	0 to 360	STT_10	ESM: fix WLS pos. 10.52deg	PET: wls_table INT: 2/1 s Dur: 12s	wls pos	n.u.	closed	large	in	on	off	0	1
escd02	Calibration	Sun_ESM_Diffuser_ Calibration, ND-Filter IN	16	SO&C window sun above atm.	STT_06	ESM: diffuser pos. 22,5 deg ASM: ICU control SFS: inactive	PET: sun_diffuser_table INT: 125ms_HR/500ms_LR Dur: 30s	diff. pos	u.	closed	large	in	off	off	0 0	1
dcc02	Calibration	Dark_Current_ Calibration	12	0 to 360	STT_01	ESM: pointing to deep space (250km above horizon) ASM: pointing to deep space	PET: Dark_Current 2 INT: 1s Dur: 30s	fix. pos.	fix. pos.	closed	large	out	off	off	0 0	1
nmep01	Calibration	Nadir / Elevation_ Mirror_Calibration_ Pointing	13	SO&C window sun above atm.	STT_02	ESM: ext_mir_pos; SFS control ASM; SFS control SFS: centre pointing to sun	PET: suntable INT: 62,5ms_HR/500ms_LR Dur: 4s	e_m pos.	u.	closed	small	in	off	off	0 0	1
adc01	Calibration/ Maintenance	ADC_Calibration7 Scanner maintenance	15	0 to 360	STT_07	ESM: performing 360deg revolution ASM: performing 360deg revolution	PET: Dark_Current 1 INT: 125ms_HR/500ms_LR Dur: 20s	360 scan	360 scan	closed	large	out	off	off	? ?	1
nmes02	Calibration	Nadir / Elevation_ Mirror_Calibration_ Scanning	13	SO&C window sun above atm.	STT_02	ESM: nom. scan at ext_mir_pos., 5 scans ASM: SFS control SFS: operating	PET: suntable INT: 62,5ms_HR/500ms_LR Dur: 11s	e_m scan	u.	closed	small	in	off	off	0,33 0	1
dcc03	Calibration	Dark_Current_ Calibration	12	0 to 360	STT_01	ESM: pointing to deep space (250km above horizon) ASM: pointing to deep space (PET in all channels set to max. at no saturation	PET: Dark_Current 3 INT: 40s Dur: 80s	fix. pos.	fix. pos.	closed	large	out	off	off	0 0	1
nmes01	Calibration	Nadir / Elevation_ Mirror_Calibration_ Scanning	13	SO&C window sun above atm.	STT_02	ESM: fast sweep at extra_mir_pos., 12 scans ASM&ESM: ICU control for sun tracking SFS: inactive	PET:sun_fast_sweep_table INT: 125ms_HR/500ms_LR Dur: 3s	e_m scan	u.	closed	small	in	off	off	22,4 0	1
lsd01	Monitoring	Spectral_Lamp_ Diffuser_Monitoring	10	0 to 360	STT_04	ESM: diffuser pos_LS 190,2deg	PET: SLS_diff_table INT: 40s DUR: 80s	diff. pos	n.u.	closed	large	out	off	on	0	1
lwd01	Monitoring	White_Lamp_ Diffuser_Monitoring	19	0 to 360	STT_05	ESM: diffuser pos_ LS 190,2deg	PET: WLS_diff_table INT: 40s DUR: 80s	diff. pos	n.u.	closed	large	out	on	off	0	1

notes referring to SFS: The sun follower system is used for acquisition/tracking of sun and moon.

SFS modes
- inactive: SFS is not part of the control loop
- operating: SFS is in operation e.g. to correct the centre of a scan but not part of the complete scanner control loop
- centre pointing: SFS is part of the scanner control loop following the centroid of sun/moon on their trajectory

note referring to scan speed: In column *Scan speed* the listed angular velocity is referring to the line of sight

Table 1: SCIAMACHY State Definition Summary

E:\SCIA_FLIGHT\Flight_parameters\States\Final_flight_states\parameter_tables\[support_tables_030930.xls]Measurement Categories

	Measurement Categories ID	RTCS	State ID	NCWM Nadir Cal. Window	APSM Aperture Stop	NDFM ND Filter	WLS White Light Source Lamp	SLS Spectral Line Source Lamp
Nadir	1	STT_01	1 to 7; 9 to 15	closed	Large	Out	Off	Off
Limb	2	STT_01	28 to 37; 40 to 41	closed	Large	Out	Off	Off
Nadir_pointing	3	STT_01	23 to 25; 42 to 45	closed	Large	Out	Off	Off
SO&C_Scanning	4	STT_02	47;49;50	closed	**Small**	**In**	Off	Off
SO&C Pointing	5	STT_02	51	closed	**Small**	**In**	Off	Off
MO&C_Pointing (incl. Troposphere)	6	STT_01	55 to 57	closed	Large	Out	Off	Off
Moon_Scanning	7	STT_01	54	closed	Large	Out	Off	Off
Sun_ESM_Diffusor_Calibration (ND OUT)	8	STT_09	52	closed	Large	Out	Off	Off
Sub-solar_Calibration	9	STT_03	53;58;60	**open**	**Small**	**In**	Off	Off
Spectral_Lamp_Calibration	10	STT_04	59;69	closed	Large	Out	Off	**On**
White_Lamp_Calibration (ND IN)	11	STT_10	61	closed	Large	**In**	**On**	Off
Dark_Current_Calibration	12	STT_01	8;26;46;63;67	closed	Large	Out	Off	Off
Sun Nadir/Elevation_Mirror_Calibration	13	STT_02	64;66;68	closed	**Small**	**In**	Off	Off
Moon Nadir/Elevation_Mirror_Calibration	14	STT_01	not used	closed	Large	Out	Off	Off
ADC_Calibration	15	STT_07	65	closed	Large	Out	Off	Off
Sun_ESM_Diffusor_Calibration (ND IN)	16	STT_06	62	closed	Large	**In**	Off	Off
Nadir_Eclipse_Pointing	17	STT_01	not used	closed	Large	Out	Off	Off
Nadir_Eclipse_Scanning	18	STT_01	not used	closed	Large	Out	Off	Off
White_Lamp_Calibration (ND OUT)	19	STT_05	70	closed	Large	Out	**On**	Off
Dark_Current_Calibration_HM	20	STT_01	39	closed	Large	Out	Off	Off
NDF Monitoring (ND OUT)	21	STT_05	16	closed	Large	Out	**On**	Off
NDF Monitoring (ND IN)	22	STT_10	48	closed	Large	**In**	**On**	Off
Sun_ASM_Diffuser	23	STT_09	17 to 21	closed	Large	Out	Off	Off
Nadir_Pointing_Left	24	STT_01	38	closed	Large	Out	Off	Off
Sun_ASM_Diffuser_Atmosphere	25	STT_09	22	closed	Large	Out	Off	Off
Limb_Mesosphere	26	STT_01	27	closed	Large	Out	Off	Off

Table 2: SCIAMACHY Measurement Category & State RTCS Definition Summary

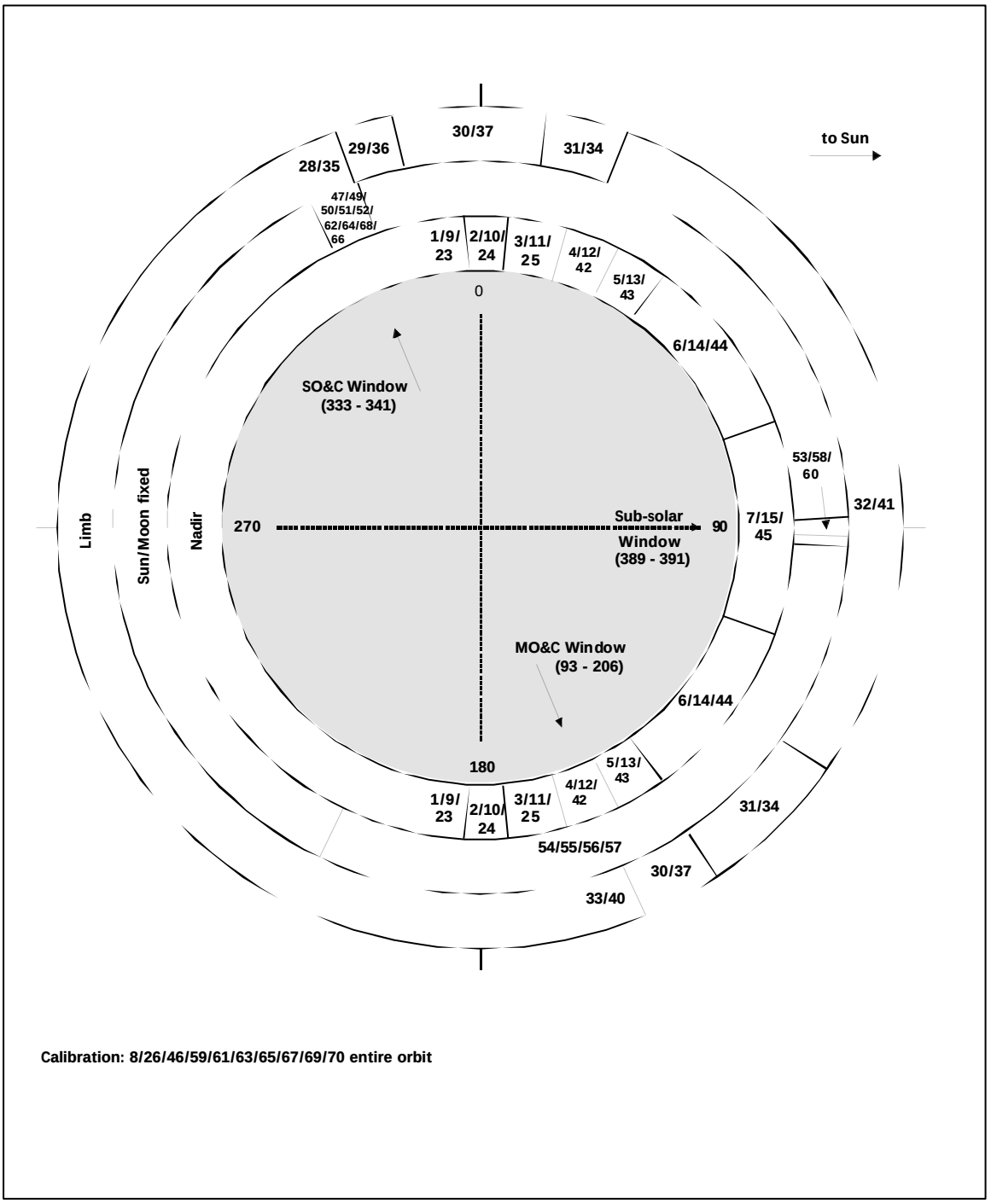

Figure 3: **Orbital Position of Limb, Nadir and Sun Fixed States**

5 State Parameter Description

This chapter describes each instrument state down to the level of individual STATE and COMMON parameters. These parameters can be grouped in different classes as depicted in fig. 4. Shaded boxes indicate those parameters whose tables are presented here in the 3rd volume of the SCIAMACHY Operations Concept TN's. From the COMMON parameter tables only those, which are ”referenced” by STATE parameter tables (e.g. the Scanner State Parameter Table refers to entries in the Scan Profiles Table) are described in this chapter.

The layout of the succeeding sub-chapters is table dependant. Nevertheless it has been tried to maintain a common structure with a table template preceding each parameter table. The template has the purpose to

- identify the MCMD which is required to update the parameters stored in the ICU
- provide a reference to the list of MCMDs according to the latest issue of the Instrument Operations Manual (RD 1)
- specify the range and unit of each parameter together with an indication of the parameter function
- present information about

    1. the table parameter values as defined at time of *Issue 5 R*ev.0 of this TN reflecting the status of definition of the 'Final-Flight'-states including the implementation of all accepted DCR's pre-launch, the complete of chages introduced by the definition of the final flight parameter set and all subsequent approved and implemented OCR's

    2. the table parameter values as defined at time of the last burning of the onboard ICU-EEPROM (necessary corrections to contents in tables for the EEPROM parameters are included)

The second bullet is included since a more detailed description of the properties of each parameter can be found in the MCMD sheets of RD1 Annex 6.

The last bullet covering the table parameter values serves the purpose to identify necessary updates of parameter tables via MCMD (either as part of Error Correction during NT3 Part 4 -see RD 1 or via CTI-I/F for instrument tuning and optimisation) in order to write into the working area of the ICU-RAM the latest valid version of parameter tables.

Note that the tables presented here in the TN cannot serve the purpose to explain the instrument actions and activities triggered by the parameters.

OCR Status

The table below lists the status of issued OCRs. Pending OCRs either wait for approval of the implementation option by the originator, approval by project management or implementation by SOST. In case implementation is finished, the associated column lists the date and the orbit number when the modification becomes effective.

OCR	Originator	Issue Date	Subject	Approval	Implementation
1	S. Noël, IFE	11/02/03	Reduce Moon Occ PETs to 1 s	27/02/03	10/03/03, orbit 5358
2	S. Noël, IFE	20/02/03	Change nadir scan w.r.t. TCFoV anomaly (PR-ID 36)	17/03/03	08/04/03, orbit 5771
3*	Q.L. Kleipool, SRON	27/02/03	In-flight measurement of channel 8 non-linearity	18/03/03	30/04/03, orbit 6090
4*	Q.L. Kleipool, SRON	27/02/03	In-flight measurement of channel 7 non-linearity	pending	pending
5*	Q.L. Kleipool, SRON	26/02/03	Harmonisation of the monthly dark signal calibrations	12/03/03	04/04/03, orbit 5711/5712
6*	Q.L. Kleipool, SRON	26/02/03	Increase of dark current blocks in the eclipse timeline	12/03/03	04/04/03, orbit 5711/5712
7	SRON	07/07/03	Revision of calibration states 67, 8, 16 and 48	10/07/03	21/07/03, orbit 7267
8	G. Lichtenberg, SRON	09/05/03	Change of final limb tangent height step ('Limb dark') from 150km to 250km	13/05/03 & 07/07/03	26/05/03, orbit 6456 & 21/07/03, orbit 7265 (limb_mesosphere)
9*	G. Lichtenberg, SRON	07/05/03	Repetition of memory effect from SODAP	23/06/03	16/07/03, orbit 7193/7194
10*	J. Skupin, IFE	08/05/03	Perform WLS over diffuser measure-ments (state 70, meas.cat. 19) in eclipse only	20/05/03	13/07/03, orbit 7151
11	M. Gottwald, DLR	21/07/03	Improvement of limb/nadir matching	22/09/03	15/10/03, orbit 8489

: OCR's marked with '' are not related to parameter tables or are for temporary test puposes only

Table 3: **OCR - Implementation status**

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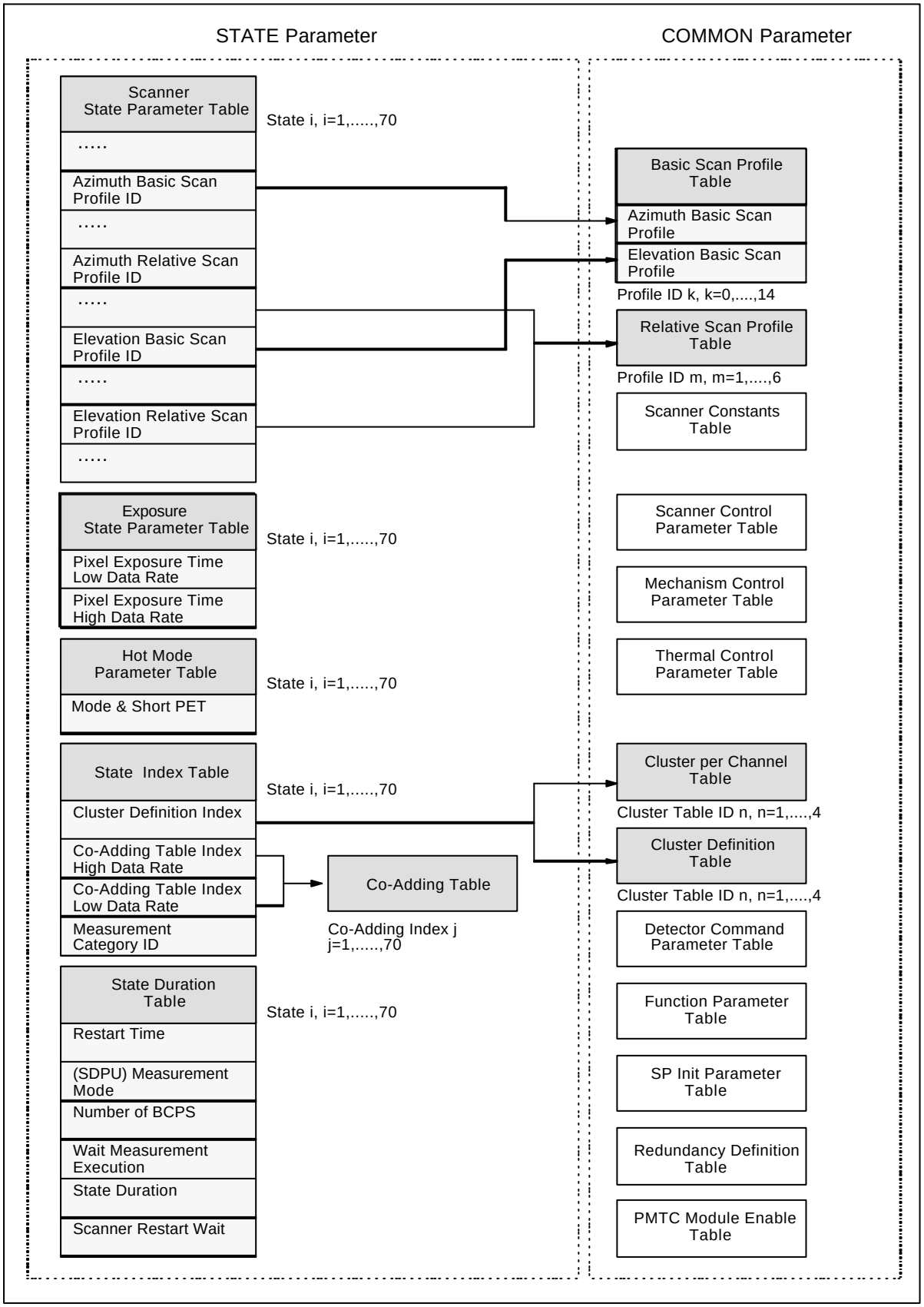

Figure 4: **STATE/COMMON Parameter Classes**

5.1 STATE Parameter Tables

5.1.1 Scanner State Parameter Table

This table defines various scanner parameters. A Scanner State Parameter table exists for each state, i.e. the total number of tables in this class is 70.

Table Template:

MCMD: SET SCANNER STATE PARAMETER (IOM Reference A6.49)

Columns:

Common parameter:	parameters, applicable to all phases (columns 3 - 10) note that the term ”common” is only used locally; it does not refer to the COMMON parameters (chapter 5.2)
Phase 1 - Phase 8:	particular phases of the scan activities (phase 1 = transition from scanner idle to scanner start position, last phase = transition from scan to idle); the maximum number of phases is given by the row parameter *Number of Scan Phases*
Trailer:	only for internal use

Rows:

State ID:	identifier of measurement state; range = 1-70
spare:	presently unused
Relative Scan Profile Factor n: (n=1-6)	multiplication factor to be applied to the Relative Scan Profile parameters *Angular Variation*, *Start Acceleration*, *End Acceleration*; if no Relative Scan profile shall be used in a state, all factors shall be ”0”; range = -128 ... +127
spare:	presently unused
Number of Scan Phases:	number of phases for each scanner mode; range = 1-8 (according to used phases of columns 3-10)
Duration of Phase:	duration of the scan phase in milliseconds; this parameter has precedence for the timing of a phase; range = 250msec-6500 sec note that the duration of phase 1 and the last phase are smaller than the setup and cleanup times because the latter include the execution times of the corresponding primitive commands
Phase Type:	selection of type of scanner movement; range = 0/1 0 = transition to position defined by nominal profile - see IOM 1 = scan execution according to phase parameters
Azimuth Centering of Relative Scan Profile:	selection of centering; range = 0/1 0 = no centering applied 1 = apply centering algorithm to Relative Profile
Azimuth Filtering:	selection of filtering, range = 0/1 0 = no filtering applied 1 = apply filter for smoothing the transition from encoder to sun-follower feedback
Azimuth Inverse Rel. Scan Profile for Even Scan:	selection of inversion scheme, range = 0/1 0 = no inversion, all repetitions are identical 1 = inversion, each 2nd scan profile in a series is inverted
Azimuth Correction of nominal Scan Profile:	selection of correction type for Basic Scan Profile for time dependent effects to achieve nominal

	ILOS scan trajectory; range = 0-9 0 = no correction 1-9 = different types of corrections - see IOM A6.46
Azimuth Relative Scan Profile Identifier:	selection of Relative Scan Profile stored in the PMTC; the Relative Scan Profile is added to the Basic Scan Profile; range = 0-6 0 = no Relative Scan Profile j (j=1,....,6) = Relative Scan Profile j
H/W Constellation:	selection of ILOS conversion algorithms for the optical H/W constellation in use; range = 1-5 (according to 5 different algorithms - see [R 6], p. 79)
Azimuth Basic Scan Profile Identifier:	selection of Basic Scan Profile stored in the PMTC; range = 0-14 (according to number of Basic Scan sets)
Azimuth Number of Repetition of Relative Scan:	number of repetitions of Relative Scan Profile in one scan phase, range = 0-4095 0 = no repetition, executes selected Relative Scan Profile only once n>0 = execution of n repetitions
spare:	presently unused
Elevation Centering of Relative Scan Profile:	selection of centering, range = 0/1 0 = no centering applied 1 = apply centering algorithm to Relative Profile
Elevation Filtering:	selection of filtering, range = 0/1 0 = no filtering applied 1 = apply filter for smoothing the transition from encoder to sun-follower feedback
Elevation Inverse Rel. Scan Profile for Even Scan:	selection of inversion scheme, range = 0/1 0 = no inversion, all repetitions are identical 1 = inversion, each 2nd scan profile in a series is inverted
Elevation Correction of nominal Scan Profile:	selection of correction type for Basic Scan Profile for time dependent effects to achieve nominal ILOS scan trajectory; range = 0-9 0 = no correction 1-9 = different types of corrections - see IOM
Elevation Relative Scan Profile Identifier:	selection of Relative Scan Profile stored in the PMTC; the Relative Scan Profile is added to the Basic Scan Profile; range = 0-6 0 = no Relative Scan Profile j (j=1,....,6) = Relative Scan profile j
spare:	presently unused
Elevation Basic Scan Profile Identifier:	selection of Basic Scan Profile stored in the PMTC; range = 0-14 (according to number of Basic Scan sets)
Elevation Number of Repetition of Relative Scan:	number of repetitions of Relative Scan Profile in one scan phase; range = 0-4095 0 = no repetition, executes selected Relative Scan Profile only once n>0 = execution of n repetitions

At time of issue the following OCR's are affecting the table content of the FINAL-FLIGHT definitions such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title	State affected
OCR_008	09/05/03	SRON; G.Lichtenberg	Change of final limb tangent height step ('Limb dark') from 150km to 250km	27; 54 - 57
OCR_011	21/07/03	SOST-DLR; M.Gottwald	Improvement of limb/nadir matching	28 - 37; 40; 41

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Scanner State Parameter #1 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	01								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #2 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	02								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #3 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	03								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

no modifications to the contents of the tables on the
opposite side as burned in EEPROM – ICU_SW V.2.03

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Scanner State Parameter #4 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	04								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #5 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	05								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #6 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	06								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

no modifications to the contents of the tables on the opposite side as burned in EEPROM – ICU_SW V.2.03

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Scanner State Parameter #7 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	07								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #8 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	08								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #9 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	09								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #8 Dark_Current_Cal_5

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	08								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00040000	00000840	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	19	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	19	0	0	0	0	0	0

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Scanner State Parameter #10 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	10								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #11 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	11								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #12 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	12								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

no modifications to the contents of the tables on the opposite side as burned in EEPROM – ICU_SW V.2.03

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Scanner State Parameter #13 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	13								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #14 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	14								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #15 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	15								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

no modifications to the contents of the tables on the opposite side as burned in EEPROM – ICU_SW V.2.03

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Scanner State Parameter #16 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	16								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #17 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	17								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0020,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	3	0	0	0	0	0	0

Scanner State Parameter #18 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	18								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0020,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	3	0	0	0	0	0	0

Scanner State Parameter #16 WLS_NDF-mon_NDFM-Out

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	16								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00012000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		13	13	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #17 Sun_ASM_Diffuser_Calibration_1

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	17								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00030000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		4	4	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #18 Sun_ASM_Diffuser_Calibration_2

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	18								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00030000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		10	10	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

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Scanner State Parameter #19 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	19								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	008								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0020,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	3	0	0	0	0	0	0

Scanner State Parameter #20 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	20								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0020,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	3	0	0	0	0	0	0

Scanner State Parameter #21 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	21								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0020,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	3	0	0	0	0	0	0

Scanner State Parameter #19 Sun_ASM_Diffuser_Calibration_3

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	19								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00030000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		11	11	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #20 Sun_ASM_Diffuser_Calibration_4

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	20								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00030000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		12	12	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #21 Sun_ASM_Diffuser_Calibration_5

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	21								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00030000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		13	13	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

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Scanner State Parameter #22 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	22								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0020,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	3	0	0	0	0	0	0

Scanner State Parameter #23 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	23								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #24 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	24								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #22	ASM_Diffuser_Atmosphere (cut-Off filter)								
	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	22								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00032000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		10	10	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	14	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

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Scanner State Parameter #25 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	25								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #26 Nadir Eclipse

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	26								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #27 Nadir Eclipse

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	27								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	001								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0080,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	0	0	0	0	0	0

Scanner State Parameter #26 Dark_Current_Cal_4

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	26								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00030000	00000840	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	14	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	14	0	0	0	0	0	0

Scanner State Parameter #27 Limb_Mesosphere (Aurora)

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	27								
spare									
Relative Scan Profile 1 Factor	-006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00040500	00000840	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	23	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		5	5	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	23	0	0	0	0	0	0

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Scanner State Parameter #28 — Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	28								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #29 — Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	29								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #30 — Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	30								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #28 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	28								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

Scanner State Parameter #29 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	29								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

Scanner State Parameter #30 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	30								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

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Scanner State Parameter #31 — Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	31								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00057375	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #32 — Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	32								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00057375	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #33 — Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	33								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00057375	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #31 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	31								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

Scanner State Parameter #32 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	32								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

Scanner State Parameter #33 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	33								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

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Scanner State Parameter #34 — Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	34								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	004								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #35 — Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	35								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #36 — Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	36								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #34 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	34								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

Scanner State Parameter #35 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	35								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

Scanner State Parameter #36 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	36								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

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Scanner State Parameter #37 Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	37								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #38 Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	38								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #39 Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	39								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #37 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	37								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

Scanner State Parameter #38 Nadir_pointing extrem left

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	38								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	-113								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00065000	00000720	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	1	0	0	0	0	0	0

Scanner State Parameter #39 Dark_Current_HM

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	39								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00012000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		12	12	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

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Scanner State Parameter #40 Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	40								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #41 Limb

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	41								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0057,375	0000,250	0001,438	0000,840	0000,000	0000,000	0000,000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	33	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	33	0	0	0	0	0	0

Scanner State Parameter #42 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	42								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #40 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	40								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

Scanner State Parameter #41 Limb_short

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	41								
spare									
Relative Scan Profile 1 Factor	006								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00050625	00000250	00001438	00000840	00000000	00000000	00000000
Phase Type		0	1	0	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		1	1	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	3	0	0	0	0
Azimuth Relative Scan Profile Identifier		3	3	0	0	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	29	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	3	3	0	0	0	0
Elevation Relative Scan Profile Identifier		1	1	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		2	2	9	9	0	0	0	0
Elevation Number of Repetition of Rel.		0	29	0	0	0	0	0	0

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Scanner State Parameter #43 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	43								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #44 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	44								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #45 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	45								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

no modifications to the contents of the tables on the opposite side as burned in EEPROM – ICU_SW V.2.03

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Scanner State Parameter #46 Dark_Current_Cal

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	46								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0005,000	0000,840	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	2	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	2	0	0	0	0	0	0

Scanner State Parameter #47 SO&C_Scan/Point

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	47								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	002								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	7								
Duration of Phase		0001,300	0028,000	0004,000	0028,000	0001,000	0001,000	0000,780	0000,000
Phase Type		0	1	1	1	1	1	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	4	6	6	6	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	5	5	5	0	0
H/W constellation		3	3	3	3	3	3	3	0
Azimuth Basic Scan Profile Identifier		3	3	3	3	3	3	0	0
Azimuth Number of Repetition of Rel. Scan		0	13	1	13	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		1	1	1	1	0	0	0	0
Elevation Correction of nominal Scan		2	2	2	8	4	6	0	0
Elevation Relative Scan Profile Identifier		4	4	4	4	5	5	0	0
spare									
Elevation Basic Scan Profile Identifier		14	14	14	3	3	3	0	0
Elevation Number of Repetition of Rel.		0	13	1	13	0	0	0	0

Scanner State Parameter #48 Nadir

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	48								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0065,000	0000,720	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		2	2	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	12	0	0	0	0	0	0

Scanner State Parameter #46 Dark_Current_Cal_1

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	46								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00010000	00000840	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	4	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	4	0	0	0	0	0	0

Scanner State Parameter #47 SO&C_Scan/Point

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	47								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	002								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	7								
Duration of Phase [msec]		00001300	00032000	00004000	00028000	00001000	00001000	00000780	00000000
Phase Type		0	1	1	1	1	1	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	4	6	6	6	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	5	5	5	0	0
H/W constellation		3	3	3	3	3	3	3	0
Azimuth Basic Scan Profile Identifier		3	3	3	3	3	3	0	0
Azimuth Number of Repetition of Rel. Scan		0	15	1	13	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		1	1	1	1	0	0	0	0
Elevation Correction of nominal Scan		2	2	8	8	4	6	0	0
Elevation Relative Scan Profile Identifier		4	4	4	4	5	5	0	0
spare									
Elevation Basic Scan Profile Identifier		14	14	3	3	3	3	0	0
Elevation Number of Repetition of Rel.		0	15	1	13	0	0	0	0

Scanner State Parameter #48 WLS_NDF-mon_NDFM-In

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	48								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00012000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		13	13	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

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Scanner State Parameter #49 SO&C_Scan_long_duration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	49								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	002								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,300	0028,000	0004,000	0098,000	0000,780	0000,000	0000,000	0000,000
Phase Type		0	1	1	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	4	6	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		3	3	3	3	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	13	1	48	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		1	1	1	1	0	0	0	0
Elevation Correction of nominal Scan		2	2	2	8	0	0	0	0
Elevation Relative Scan Profile Identifier		4	4	4	4	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	14	14	3	0	0	0	0
Elevation Number of Repetition of Rel.		0	13	1	48	0	0	0	0

Scanner State Parameter #50 SO&C_Scanning_fast_sweep

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	50								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	014								
Number of Scan Phases	3								
Duration of Phase		0001,300	0002,500	0000,780	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		3	3	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	1	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	1	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		6	6	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		3	3	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	19	0	0	0	0	0	0

Scanner State Parameter #51 SO&C_Pointing

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	51								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	6								
Duration of Phase		0001,300	0028,000	0004,000	0000,500	0026,500	0000,780	0000,000	0000,000
Phase Type		0	1	1	1	1	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	4	6	6	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	5	5	0	0	0
H/W constellation		3	3	3	3	3	3	0	0
Azimuth Basic Scan Profile Identifier		3	3	3	3	3	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	13	1	0	13	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		1	1	1	0	0	0	0	0
Elevation Correction of nominal Scan		2	2	2	4	6	0	0	0
Elevation Relative Scan Profile Identifier		4	4	4	5	5	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	14	14	3	3	0	0	0
Elevation Number of Repetition of Rel.		0	13	1	0	13	0	0	0

Scanner State Parameter #49 SO&C_Scan_long_duration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	49								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	002								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00032000	00004000	00094000	00000780	00000000	00000000	00000000
Phase Type		0	1	1	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	4	6	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		3	3	3	3	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	15	1	46	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		1	1	1	1	0	0	0	0
Elevation Correction of nominal Scan		2	2	8	8	0	0	0	0
Elevation Relative Scan Profile Identifier		4	4	4	4	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	14	3	3	0	0	0	0
Elevation Number of Repetition of Rel.		0	15	1	46	0	0	0	0

Scanner State Parameter #50 SO&C_Scanning_fast_sweep

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	50								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	016								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00003000	00000780	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		3	3	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	1	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		6	6	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		3	3	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	1	0	0	0	0	0	0

Scanner State Parameter #51 SO&C_Pointing

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	51								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	002								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	6								
Duration of Phase [msec]		00001300	00036000	00012000	00000500	00015500	00000780	00000000	00000000
Phase Type		0	1	1	1	1	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	4	6	6	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	5	5	0	0	0
H/W constellation		3	3	3	3	3	3	0	0
Azimuth Basic Scan Profile Identifier		3	3	3	3	3	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	17	5	0	7	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		1	1	0	0	0	0	0	0
Elevation Correction of nominal Scan		2	2	8	4	6	0	0	0
Elevation Relative Scan Profile Identifier		4	4	5	5	5	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	14	3	3	3	0	0	0
Elevation Number of Repetition of Rel.		0	17	5	0	7	0	0	0

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Scanner State Parameter #52 Sun_Diffusor_Calibration_ND_O

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	52								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0004,000	0030,000	0003,460	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		4	4	4	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		6	6	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	14	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		6	6	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #53 Sub_Solar_Cal_Pointing

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	53								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase		0001,750	0007,000	0006,000	0009,000	0001,730	0000,000	0000,000	0000,000
Phase Type		0	1	1	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	1	1	0	0	0
Azimuth Basic Scan Profile Identifier		4	4	4	4	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	4	9	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		4	4	4	4	0	0	0	0
Elevation Number of Repetition of Rel.		0	3	2	4	0	0	0	0

Scanner State Parameter #54 Moon_Cal_Scan

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	54								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	002								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	4								
Duration of Phase		0001,300	0002,000	0010,000	0001,020	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	1	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		5	5	7	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
H/W constellation		3	3	3	3	0	0	0	0
Azimuth Basic Scan Profile Identifier		5	5	5	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	4	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	1	0	0	0	0	0
Elevation Correction of nominal Scan		5	5	9	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	4	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		5	5	5	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	4	0	0	0	0	0

Scanner State Parameter #53 Sub_Solar_Cal_Pointing

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	53								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001750	00007000	00006000	00009000	00001730	00000000	00000000	00000000
Phase Type		0	1	1	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	1	1	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	1	1	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	4	9	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		4	4	4	4	0	0	0	0
Elevation Number of Repetition of Rel.		0	3	2	4	0	0	0	0

Scanner State Parameter #54 Moon_Cal_Scan

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	54								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	002								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	4								
Duration of Phase [msec]		00001300	00002000	00010000	00001020	00000000	00000000	00000000	00000000
Phase Type		0	1	1	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		5	5	7	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
H/W constellation		3	3	3	3	0	0	0	0
Azimuth Basic Scan Profile Identifier		5	5	5	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	4	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	1	0	0	0	0	0
Elevation Correction of nominal Scan		5	5	9	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	4	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		3	3	3	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	4	0	0	0	0	0

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Scanner State Parameter #55 Moon_Nadir/Elev_Mir_Cal_Scan

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	55								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	001								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	4								
Duration of Phase [msec]		00001300	00002000	00010000	00001110	00000000	00000000	00000000	00000000
Phase Type		0	1	1	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		5	5	7	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
H/W constellation		5	5	5	5	0	0	0	0
Azimuth Basic Scan Profile Identifier		13	13	13	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	4	0	0	0	0	0
spare									
Elevation Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	1	0	0	0	0	0
Elevation Correction of nominal Scan Profile		5	5	9	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	4	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		13	13	13	0	0	0	0	0
Elevation Number of Repetition of Rel. Scan		0	0	4	0	0	0	0	0

Scanner State Parameter #56 MO&C_Point

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	56								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	4								
Duration of Phase [msec]		00001300	00002000	00030000	00001020	00000000	00000000	00000000	00000000
Phase Type		0	1	1	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		5	5	7	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
H/W constellation		3	3	3	3	0	0	0	0
Azimuth Basic Scan Profile Identifier		5	5	5	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	14	0	0	0	0	0
spare									
Elevation Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan Profile		5	5	7	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	5	5	0	0	0	0	0
Elevation Number of Repetition of Rel. Scan		0	0	14	0	0	0	0	0

Scanner State Parameter #57 MO&C_Poin_long_duration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	57								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	4								
Duration of Phase [msec]		00001300	00002000	00126000	00001020	00000000	00000000	00000000	00000000
Phase Type		0	1	1	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		5	5	7	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
H/W constellation		3	3	3	3	0	0	0	0
Azimuth Basic Scan Profile Identifier		5	5	5	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	62	0	0	0	0	0
spare									
Elevation Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan Profile		5	5	7	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	5	5	0	0	0	0	0
Elevation Number of Repetition of Rel. Scan		0	0	62	0	0	0	0	0

Scanner State Parameter #55 Moon_Troposphere (below 17km)

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	55								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00002000	00014000	00126000	00001020	00000000	00000000	00000000
Phase Type		0	1	1	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		5	5	7	7	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		5	5	5	5	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	6	14	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		5	5	7	7	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	14	14	3	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	6	62	0	0	0	0

Scanner State Parameter #56 MO&C_Point

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	56								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00016000	00002000	00022000	00001020	00000000	00000000	00000000
Phase Type		0	1	1	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	5	7	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		5	5	5	5	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	7	0	10	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	5	7	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	3	3	3	0	0	0	0
Elevation Number of Repetition of Rel.		0	7	0	10	0	0	0	0

Scanner State Parameter #57 MO&C_Poin_long_duration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	57								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	5								
Duration of Phase [msec]		00001300	00016000	00002000	00110000	00001020	00000000	00000000	00000000
Phase Type		0	1	1	1	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	5	7	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
H/W constellation		3	3	3	3	3	0	0	0
Azimuth Basic Scan Profile Identifier		5	5	5	5	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	7	0	54	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	5	7	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	5	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		14	3	3	3	0	0	0	0
Elevation Number of Repetition of Rel.		0	7	0	54	0	0	0	0

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Scanner State Parameter #58 Sub_Solar_Cal_Point/Scan

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	58								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	002								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	6								
Duration of Phase		0001,750	0007,000	0002,000	0004,000	0009,000	0001,730	0000,000	0000,000
Phase Type		0	1	1	1	1	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	1	1	1	0	0
Azimuth Basic Scan Profile Identifier		4	4	4	4	4	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	1	0	0	0	0
Elevation Correction of nominal Scan		8	8	4	9	9	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	4	5	0	0	0
spare									
Elevation Basic Scan Profile Identifier		4	4	4	4	4	0	0	0
Elevation Number of Repetition of Rel.		0	3	0	1	4	0	0	0

Scanner State Parameter #59 Spectral_Lamp_Calibration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	59								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0004,000	0004,000	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		10	10	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		10	10	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #60 Sub_Solar_Cal_Scan

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	60								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	001								
Number of Scan Phases	3								
Duration of Phase		0001,750	0022,000	0001,730	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		4	4	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	1	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		6	6	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		4	4	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	175	0	0	0	0	0	0

Scanner State Parameter #58 Sub_Solar_Cal_Point/Scan

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	58								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	002								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	6								
Duration of Phase [msec]		00001750	00007000	00002000	00004000	00009000	00001730	00000000	00000000
Phase Type		0	1	1	1	1	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	1	1	1	0	0
Azimuth Basic Scan Profile Identifier		1	1	1	1	1	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	1	0	0	0	0
Elevation Correction of nominal Scan		8	8	4	9	9	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	4	5	0	0	0
spare									
Elevation Basic Scan Profile Identifier		4	4	4	4	4	0	0	0
Elevation Number of Repetition of Rel.		0	3	0	1	4	0	0	0

Scanner State Parameter #59 Spectral_Lamp_Calibration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	59								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00012000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		10	10	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #60 Sub_Solar_Cal_Scan

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	60								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	016								
Number of Scan Phases	3								
Duration of Phase [msec]		00001750	00022000	00001730	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		6	6	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		4	4	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	10	0	0	0	0	0	0

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Scanner State Parameter #61 White_Lamp_Calibration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	61								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00010000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		12	12	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		12	12	0	0	0	0	0	0
Elevation Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0

Scanner State Parameter #62 Sun_Diffusor_Calibration_ND_I

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	62								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00030000	00003460	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		4	4	4	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		6	6	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	14	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		6	6	0	0	0	0	0	0
Elevation Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0

Scanner State Parameter #63 Dark_ Current_Calibration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	63								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00030000	00000840	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	14	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan Profile		3	3	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel. Scan		0	14	0	0	0	0	0	0

Scanner State Parameter #61 White_Lamp_Calibration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	61								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00012000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		12	12	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

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Scanner State Parameter #64 Sun_Nadir/Elev_Mir_Cal_Point

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	64								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	4								
Duration of Phase		0001,300	0000,500	0003,000	0001,110	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	1	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		4	4	6	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
H/W constellation		5	5	5	5	0	0	0	0
Azimuth Basic Scan Profile Identifier		8	8	8	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	1	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		4	4	6	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		8	8	8	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	1	0	0	0	0	0

Scanner State Parameter #65 ADC/Cal_Scan/Maintenance

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	65								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	1								
Duration of Phase		0000,000	0000,000	0000,000	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	0	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	0	0	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		0	0	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		0	0	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #66 Sun_Nadir/Elev_Mir_Cal_Scan

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	66								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	001								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	4								
Duration of Phase		0001,300	0001,000	0010,000	0001,110	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	1	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		4	4	6	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
H/W constellation		5	5	5	5	0	0	0	0
Azimuth Basic Scan Profile Identifier		8	8	8	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	4	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	1	0	0	0	0	0
Elevation Correction of nominal Scan		4	4	9	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	4	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		8	8	8	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	4	0	0	0	0	0

Scanner State Parameter #64 Sun_Nadir/Elev_Mir_Cal_Point

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	64								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	4								
Duration of Phase [msec]		00001300	00000500	00003500	00001110	00000000	00000000	00000000	00000000
Phase Type		0	1	1	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		4	4	6	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
H/W constellation		5	5	5	5	0	0	0	0
Azimuth Basic Scan Profile Identifier		8	8	8	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	1	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		4	4	6	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	5	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		8	8	8	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	1	0	0	0	0	0

Scanner State Parameter #65 ADC/Cal_Scan/Maintenance

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	65								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	4								
Duration of Phase [msec]		00001300	00010000	00010000	00000780	00000000	00000000	00000000	00000000
Phase Type		0	0	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		3	3	3	3	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	7	1	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		12	7	12	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

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Scanner State Parameter #67 Dark_ Current_Calibration

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	67								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0001,300	0200,000	0000,840	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	99	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	99	0	0	0	0	0	0

Scanner State Parameter #68 Sun_Nadir/Elev_Mir_Cal_fast_sweep

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	68								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	007								
Number of Scan Phases	3								
Duration of Phase		0001,300	0002,500	0001,110	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		5	5	5	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		8	8	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	1	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	1	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		6	6	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		8	8	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	19	0	0	0	0	0	0

Scanner State Parameter #69 Spectral_Lamp_Cal_Diffusor

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	69								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0004,000	0080,000	0004,000	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		11	11	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		11	11	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #67 Dark_Current_Cal_3

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	67								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00080000	00000840	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		3	3	3	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		3	3	3	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	39	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		3	3	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		9	9	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	39	0	0	0	0	0	0

Scanner State Parameter #68 Sun_Nadir/Elev_Mir_Cal_fast_sweep

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	68								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	008								
Number of Scan Phases	3								
Duration of Phase [msec]		00001300	00003000	00001110	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		8	8	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		5	5	0	0	0	0	0	0
H/W constellation		5	5	5	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		8	8	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	1	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		1	1	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		8	8	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		6	6	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		8	8	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	1	0	0	0	0	0	0

Scanner State Parameter #69 Spectral_Lamp_Cal_Diffusor

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	69								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00080000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		11	11	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

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Scanner State Parameter #70 White_Lamp_Cal_Diffusor

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	70								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase		0004,000	0080,000	0004,000	0000,000	0000,000	0000,000	0000,000	0000,000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		12	12	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		11	11	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

Scanner State Parameter #70 White_Lamp_Cal_Diffusor

	Common Param.	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
STATE ID	70								
spare									
Relative Scan Profile 1 Factor	000								
Relative Scan Profile 2 Factor	000								
Relative Scan Profile 3 Factor	000								
Relative Scan Profile 4 Factor	000								
Relative Scan Profile 5 Factor	000								
Relative Scan Profile 6 Factor	000								
Number of Scan Phases	3								
Duration of Phase [msec]		00004000	00080000	00004000	00000000	00000000	00000000	00000000	00000000
Phase Type		0	1	0	0	0	0	0	0
Azimuth Centering of Relative Scan Profile		0	0	0	0	0	0	0	0
Azimuth Filtering		0	0	0	0	0	0	0	0
Az. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Azimuth Correction of nominal Scan Profile		0	0	0	0	0	0	0	0
Azimuth Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
H/W constellation		1	1	1	0	0	0	0	0
Azimuth Basic Scan Profile Identifier		1	1	0	0	0	0	0	0
Azimuth Number of Repetition of Rel. Scan		0	0	0	0	0	0	0	0
spare									
Elevation Centering of Relative Scan		0	0	0	0	0	0	0	0
Elevation Filtering		0	0	0	0	0	0	0	0
El. Inverse Rel. Scan Profile for Even Scan		0	0	0	0	0	0	0	0
Elevation Correction of nominal Scan		0	0	0	0	0	0	0	0
Elevation Relative Scan Profile Identifier		0	0	0	0	0	0	0	0
spare									
Elevation Basic Scan Profile Identifier		11	11	0	0	0	0	0	0
Elevation Number of Repetition of Rel.		0	0	0	0	0	0	0	0

5.1.2 Pixel Exposure Time Parameter Table

This table defines the pixel exposure times for all states, both for the low and the high data rate. Only one table of this class exists.

Table Template:

MCMD: SET EXPOSURE STATE PARAMETER (IOM Reference A6.35)

Columns:

State ID:	identifier of state; range = 1-70
Data Rate:	data rate for which the exposure times apply; the Pixel Exposure Time (PET) is specified separately for high and low data rate
Channel 1a - Channel 8:	PET in SCIAMACHY measurement channels (including the separation of the first two channels into virtual channels) in BCPS (1 BCPS=62.5 msec); range = 1-16383 (62.5 msec - 1023.9375 sec); note that the value "0" corresponds to 31.25 msec i.e. only pixel data from every second exposure will be read

Note that the values for the PET are furtheron under investigation. They depend on instrument performance subject to the SCIAMACHY monitoring task. In addition the optimasation of the PET is ongoing in order to obtain the best results (signal-to-noise ratio) over the complete orbit

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title	State affected
OCR_001	11.Feb.03	IFE, S.Noel	Reduce Moon Occ PETs to 1 s	54 - 57
OCR_007	07.Jul.03	SRON	Revision of calibration states 67, 8, 16 and 48	8; 67

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State ID	Data Rate	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	corresponding PET/Coadd-table
1	Low	160	160	160	160	160	160	160	160	16	16	N1
	High	160	160	160	160	160	160	160	160	16	16	N1
2	Low	160	160	16	16	16	16	16	16	16	16	N2
	High	160	160	16	16	16	16	16	16	16	16	N2
3	Low	80	80	16	16	8	4	8	8	16	16	N3
	High	80	80	16	16	8	4	8	8	16	16	N3
4	Low	16	16	8	16	4	4	4	4	16	16	N4
	High	16	16	8	16	4	4	4	4	16	16	N4
5	Low	16	16	8	16	2	2	4	4	8	16	N5
	High	16	16	8	16	2	2	4	4	8	16	N5
6	Low	16	16	4	16	2	2	2	2	8	16	N6
	High	16	16	4	16	2	2	2	2	8	16	N6
7	Low	16	16	4	16	2	2	2	2	8	8	N7
	High	16	16	4	16	2	2	2	2	8	8	N7
8	Low	16	16	2	8	1	1	1	1	4	4	N8
	High	16	16	2	8	1	1	1	1	4	4	N8
9	Low	160	160	160	160	160	160	160	160	16	16	N1
	High	160	160	160	160	160	160	160	160	16	16	N1
10	Low	160	160	16	16	16	16	16	16	16	16	N2
	High	160	160	16	16	16	16	16	16	16	16	N2
11	Low	80	80	16	16	8	4	8	8	16	16	N3
	High	80	80	16	16	8	4	8	8	16	16	N3
12	Low	16	16	8	16	4	4	4	4	16	16	N4
	High	16	16	8	16	4	4	4	4	16	16	N4
13	Low	16	16	8	16	2	2	4	4	8	16	N5
	High	16	16	8	16	2	2	4	4	8	16	N5
14	Low	16	16	4	16	2	2	2	2	8	16	N6
	High	16	16	4	16	2	2	2	2	8	16	N6
15	Low	16	16	4	16	2	2	2	2	8	8	N7
	High	16	16	4	16	2	2	2	2	8	8	N7
16	Low	16	16	2	8	1	1	1	1	4	4	N8
	High	16	16	2	8	1	1	1	1	4	4	N8
17	Low	16	16	8	16	4	4	4	4	16	16	N4
	High	16	16	8	16	4	4	4	4	16	16	N4
18	Low	16	16	8	16	2	2	4	4	8	16	N5
	High	16	16	8	16	2	2	4	4	8	16	N5
19	Low	16	16	4	16	2	2	2	2	8	8	N7
	High	16	16	4	16	2	2	2	2	8	8	N7
20	Low	16	16	8	16	4	4	4	4	16	16	N4
	High	16	16	8	16	4	4	4	4	16	16	N4
21	Low	16	16	8	16	2	2	4	4	8	16	N5
	High	16	16	8	16	2	2	4	4	8	16	N5
22	Low	16	16	4	16	2	2	2	2	8	8	N7
	High	16	16	4	16	2	2	2	2	8	8	N7
23	Low	160	160	160	160	160	160	160	160	16	16	N1
	High	160	160	160	160	160	160	160	160	16	16	N1
24	Low	160	160	16	16	16	16	16	16	16	16	N2
	High	160	160	16	16	16	16	16	16	16	16	N2
25	Low	80	80	16	16	8	4	8	8	16	16	N3
	High	80	80	16	16	8	4	8	8	16	16	N3
26	Low	1280	1280	1280	1280	1280	1280	1280	160	16	16	N9
	High	1280	1280	1280	1280	1280	1280	1280	160	16	16	N9
27	Low	1280	1280	1280	1280	1280	1280	1280	160	16	16	N9
	High	1280	1280	1280	1280	1280	1280	1280	160	16	16	N9
28	Low	24	24	12	24	4	4	6	8	24	24	L1
	High	24	24	12	24	4	4	6	8	24	24	L1
29	Low	24	24	8	24	4	4	6	8	24	24	L2
	High	24	24	8	24	4	4	6	8	24	24	L2
30	Low	24	6	6	6	3	3	6	6	6	6	L3
	High	24	6	6	6	3	3	6	6	6	6	L3
31	Low	24	6	6	6	3	3	6	6	6	6	L4
	High	24	6	6	6	3	3	6	6	6	6	L4
32	Low	24	6	6	6	3	6	6	6	6	6	L5
	High	24	6	6	6	3	6	6	6	6	6	L5
33	Low	24	24	12	24	12	12	24	24	24	24	L6
	High	24	24	12	24	12	12	24	24	24	24	L6
34	Low	24	6	6	6	2	2	2	2	6	6	L7
	High	24	6	6	6	2	2	2	2	6	6	L7
35	Low	24	24	12	24	4	4	6	8	24	24	L1
	High	24	24	12	24	4	4	6	8	24	24	L1

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State ID	Data Rate	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	corresponding PET/Coadd-table
1	Low	160	160	160	160	16	16	160	80	16	16	N1
	High	160	160	160	160	16	16	160	80	16	16	N1
2	Low	160	16	16	16	16	16	16	8	16	16	N2
	High	160	16	16	16	16	16	16	8	16	16	N2
3	Low	80	16	16	16	4	4	8	4	16	16	N3
	High	80	16	16	16	4	4	8	4	16	16	N3
4	Low	16	16	8	16	4	2	8	4	16	16	N4
	High	16	16	8	16	4	2	8	4	16	16	N4
5	Low	16	8	8	8	2	2	4	2	16	16	N5
	High	16	8	8	8	2	2	4	2	16	16	N5
6	Low	16	4	4	4	1	1	4	2	8	8	N6
	High	16	4	4	4	1	1	4	2	8	8	N6
7	Low	16	4	4	4	1	1	2	2	8	8	N7
	High	16	4	4	4	1	1	2	2	8	8	N7
8	Low	80	80	16	16	16	16	16	80	16	16	Dark Current 5
	High	80	80	16	16	16	16	16	80	16	16	Dark Current 5
9	Low	160	160	160	160	16	16	160	80	16	16	N1
	High	160	160	160	160	16	16	160	80	16	16	N1
10	Low	160	16	16	16	16	16	16	8	16	16	N2
	High	160	16	16	16	16	16	16	8	16	16	N2
11	Low	80	16	16	16	4	4	8	4	16	16	N3
	High	80	16	16	16	4	4	8	4	16	16	N3
12	Low	16	16	8	16	4	2	8	4	16	16	N4
	High	16	16	8	16	4	2	8	4	16	16	N4
13	Low	16	8	8	8	2	2	4	2	16	16	N5
	High	16	8	8	8	2	2	4	2	16	16	N5
14	Low	16	4	4	4	1	1	4	2	8	8	N6
	High	16	4	4	4	1	1	4	2	8	8	N6
15	Low	16	4	4	4	1	1	2	2	8	8	N7
	High	16	4	4	4	1	1	2	2	8	8	N7
16	Low	64	64	64	64	2	0	0	0	0	1	NDF Monitoring
	High	64	64	64	64	2	0	0	0	0	1	NDF Monitoring
17	Low	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
	High	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
18	Low	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
	High	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
19	Low	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
	High	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
20	Low	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
	High	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
21	Low	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
	High	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
22	Low	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
	High	4	4	4	4	1	1	2	1	4	8	Sun_ASM_diffuser
23	Low	160	160	160	160	16	16	160	80	16	16	N1
	High	160	160	160	160	16	16	160	80	16	16	N1
24	Low	160	16	16	16	16	16	16	8	16	16	N2
	High	160	16	16	16	16	16	16	8	16	16	N2
25	Low	80	16	16	16	4	4	8	4	16	16	N3
	High	80	16	16	16	4	4	8	4	16	16	N3
26	Low	4	4	4	4	0	0	4	0	0	2	Dark Current 4
	High	4	4	4	4	0	0	4	0	0	2	Dark Current 4
27	Low	24	24	24	24	12	12	24	24	24	24	L6
	High	24	24	24	24	12	12	24	24	24	24	L6
28	Low	24	24	12	24	6	6	6	6	24	24	L1
	High	24	24	12	24	6	6	6	6	24	24	L1
29	Low	24	24	12	24	1	1	3	1	24	24	L2
	High	24	24	12	24	1	1	3	1	24	24	L2
30	Low	24	6	6	6	1	1	6	1	6	6	L3
	High	24	6	6	6	1	1	6	1	6	6	L3
31	Low	24	6	6	6	3	3	6	3	6	6	L4
	High	24	6	6	6	3	3	6	3	6	6	L4
32	Low	24	6	6	6	3	3	6	3	6	6	L5
	High	24	6	6	6	3	3	6	3	6	6	L5
33	Low	24	24	24	24	12	12	24	24	24	24	L6
	High	24	24	24	24	12	12	24	24	24	24	L6
34	Low	24	6	6	6	3	3	6	3	6	6	L4
	High	24	6	6	6	3	3	6	3	6	6	L4
35	Low	24	24	12	24	6	6	6	6	24	24	L1
	High	24	24	12	24	6	6	6	6	24	24	L1

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State ID	Data Rate	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	corresponding PET/Coadd-table
36	Low	24	24	8	24	4	4	6	8	24	24	L2
	High	24	24	8	24	4	4	6	8	24	24	L2
37	Low	24	6	6	6	3	3	6	6	6	6	L3
	High	24	6	6	6	3	3	6	6	6	6	L3
38	Low	24	6	6	6	3	3	6	6	6	6	L4
	High	24	6	6	6	3	3	6	6	6	6	L4
39	Low	24	6	6	6	3	6	6	6	6	6	L5
	High	24	6	6	6	3	6	6	6	6	6	L5
40	Low	24	24	12	24	12	12	24	24	24	24	L6
	High	24	24	12	24	12	12	24	24	24	24	L6
41	Low	24	6	6	6	2	2	2	2	6	6	L7
	High	24	6	6	6	2	2	2	2	6	6	L7
42	Low	16	16	8	16	4	4	4	4	16	16	N4
	High	16	16	8	16	4	4	4	4	16	16	N4
43	Low	16	16	8	16	2	2	4	4	8	16	N5
	High	16	16	8	16	2	2	4	4	8	16	N5
44	Low	16	16	4	16	2	2	2	2	8	16	N6
	High	16	16	4	16	2	2	2	2	8	16	N6
45	Low	16	16	4	16	2	2	2	2	8	8	N7
	High	16	16	4	16	2	2	2	2	8	8	N7
46	Low	1	1	1	1	1	1	1	1	1	1	Dark Current 1
	High	1	1	1	1	1	1	1	1	1	1	Dark Current 1
47	Low	1	1	0	0	1	1	1	0	0	1	Sun
	High	1	1	0	0	1	1	1	0	0	1	Sun
48	Low	16	16	2	8	1	1	1	1	4	4	N8
	High	16	16	2	8	1	1	1	1	4	4	N8
49	Low	1	1	0	0	1	1	1	0	0	1	Sun
	High	1	1	0	0	1	1	1	0	0	1	Sun
50	Low	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
	High	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
51	Low	1	1	0	0	1	1	1	0	0	1	Sun
	High	1	1	0	0	1	1	1	0	0	1	Sun
52	Low	1	1	1	1	0	0	0	0	2	2	Sun_diffuser
	High	1	1	1	1	0	0	0	0	2	2	Sun_diffuser
53	Low	1	1	0	0	1	1	1	0	0	1	Sun
	High	1	1	0	0	1	1	1	0	0	1	Sun
54	Low	32	32	32	32	32	32	32	32	32	32	Moon
	High	32	32	32	32	32	32	32	32	32	32	Moon
55	Low	32	32	32	32	32	32	32	32	32	32	Moon
	High	32	32	32	32	32	32	32	32	32	32	Moon
56	Low	32	32	32	32	32	32	32	32	32	32	Moon
	High	32	32	32	32	32	32	32	32	32	32	Moon
57	Low	32	32	32	32	32	32	32	32	32	32	Moon
	High	32	32	32	32	32	32	32	32	32	32	Moon
58	Low	1	1	0	0	1	1	1	0	0	1	Sun
	High	1	1	0	0	1	1	1	0	0	1	Sun
59	Low	64	64	32	32	2	0	4	4	8	2	SLS
	High	64	64	32	32	2	0	4	4	8	2	SLS
60	Low	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
	High	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
61	Low	160	160	32	32	4	2	1	0	0	0	WLS
	High	160	160	32	32	4	2	1	0	0	0	WLS
62	Low	1	1	1	1	0	0	0	0	2	2	Sun_diffuser
	High	1	1	1	1	0	0	0	0	2	2	Sun_diffuser
63	Low	16	16	16	16	16	16	16	16	16	8	Dark Current 2
	High	16	16	16	16	16	16	16	16	16	8	Dark Current 2
64	Low	1	1	0	0	1	1	1	0	0	1	Sun
	High	1	1	0	0	1	1	1	0	0	1	Sun
65	Low	0	0	0	0	0	0	0	0	0	0	ADC Cal
	High	0	0	0	0	0	0	0	0	0	0	ADC Cal
66	Low	1	1	0	0	1	1	1	0	0	1	Sun
	High	1	1	0	0	1	1	1	0	0	1	Sun
67	Low	640	640	640	640	640	640	640	320	80	16	Dark Current 3
	High	640	640	640	640	640	640	640	320	80	16	Dark Current 3
68	Low	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
	High	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
69	Low	640	640	640	640	640	640	640	640	80	32	SLS_diffuser
	High	640	640	640	640	640	640	640	640	80	32	SLS_diffuser
70	Low	640	640	640	640	640	320	320	160	80	32	WLS_diffuser
	High	640	640	640	640	640	320	320	160	80	32	WLS_diffuser

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State ID	Data Rate	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	corresponding PET/Coadd-table
36	Low	24	24	12	24	1	1	3	1	24	24	L2
	High	24	24	12	24	1	1	3	1	24	24	L2
37	Low	24	6	6	6	1	1	6	1	6	6	L3
	High	24	6	6	6	1	1	6	1	6	6	L3
38	Low	16	4	4	4	1	1	2	2	8	8	N7
	High	16	4	4	4	1	1	2	2	8	8	N7
39	Low	32	32	4	4	2	0	0	0	0	0	WLS
	High	32	32	4	4	2	0	0	0	0	0	WLS
40	Low	24	24	24	24	12	12	24	24	24	24	L6
	High	24	24	24	24	12	12	24	24	24	24	L6
41	Low	24	6	6	6	3	3	6	3	6	6	L5
	High	24	6	6	6	3	3	6	3	6	6	L5
42	Low	16	16	8	16	4	2	8	4	16	16	N4
	High	16	16	8	16	4	2	8	4	16	16	N4
43	Low	16	8	8	8	2	2	4	2	16	16	N5
	High	16	8	8	8	2	2	4	2	16	16	N5
44	Low	16	4	4	4	1	1	4	2	8	8	N6
	High	16	4	4	4	1	1	4	2	8	8	N6
45	Low	16	4	4	4	1	1	2	2	8	8	N7
	High	16	4	4	4	1	1	2	2	8	8	N7
46	Low	1	1	1	1	1	1	2	4	1	1	Dark Current 1
	High	1	1	1	1	1	1	2	4	1	1	Dark Current 1
47	Low	1	1	1	1	1	1	1	0	0	1	Sun
	High	1	1	1	1	1	1	1	0	0	1	Sun
48	Low	64	64	64	64	2	0	0	0	0	1	NDF Monitoring
	High	64	64	64	64	2	0	0	0	0	1	NDF Monitoring
49	Low	1	1	1	1	1	1	1	0	0	1	Sun
	High	1	1	1	1	1	1	1	0	0	1	Sun
50	Low	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
	High	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
51	Low	1	1	1	1	1	1	1	0	0	1	Sun
	High	1	1	1	1	1	1	1	0	0	1	Sun
52	Low	1	1	1	1	0	0	0	0	1	2	Sun_ESM_diffuser
	High	1	1	1	1	0	0	0	0	1	2	Sun_ESM_diffuser
53	Low	1	1	1	1	1	1	1	0	0	1	Sun
	High	1	1	1	1	1	1	1	0	0	1	Sun
54	Low	16	16	16	16	16	16	16	16	16	16	Moon
	High	16	16	16	16	16	16	16	16	16	16	Moon
55	Low	16	16	16	16	16	16	16	16	16	16	Moon
	High	16	16	16	16	16	16	16	16	16	16	Moon
56	Low	16	16	16	16	16	16	16	16	16	16	Moon
	High	16	16	16	16	16	16	16	16	16	16	Moon
57	Low	16	16	16	16	16	16	16	16	16	16	Moon
	High	16	16	16	16	16	16	16	16	16	16	Moon
58	Low	1	1	1	1	1	1	1	0	0	1	Sun
	High	1	1	1	1	1	1	1	0	0	1	Sun
59	Low	64	64	32	32	2	0	4	4	16	16	SLS
	High	64	64	32	32	2	0	4	4	16	16	SLS
60	Low	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
	High	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
61	Low	32	32	4	4	2	0	0	0	0	0	WLS
	High	32	32	4	4	2	0	0	0	0	0	WLS
62	Low	1	1	1	1	0	0	1	0	1	2	Sun_ESM_diffuser
	High	1	1	1	1	0	0	1	0	1	2	Sun_ESM_diffuser
63	Low	16	16	8	8	4	4	8	8	8	8	Dark Current 2
	High	16	16	8	8	4	4	8	8	8	8	Dark Current 2
64	Low	1	1	1	1	1	1	1	0	1	1	Sun
	High	1	1	1	1	1	1	1	0	1	1	Sun
65	Low	1	1	1	1	1	1	1	1	1	1	ADC Cal
	High	1	1	1	1	1	1	1	1	1	1	ADC Cal
66	Low	1	1	1	1	1	1	1	0	1	1	Sun
	High	1	1	1	1	1	1	1	0	1	1	Sun
67	Low	160	160	160	160	2	2	160	2	32	32	Dark Current 3
	High	160	160	160	160	2	2	160	2	32	32	Dark Current 3
68	Low	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
	High	2	2	2	2	2	2	2	2	2	2	Sun_Fast_Sweep
69	Low	640	640	640	640	320	160	640	160	32	32	SLS_diffuser
	High	640	640	640	640	320	160	640	160	32	32	SLS_diffuser
70	Low	640	640	640	640	160	64	64	16	16	32	WLS_diffuser
	High	640	640	640	640	160	64	64	16	16	32	WLS_diffuser

Hot Mode Parameter Table

This table defines whether to invoke the Hot Mode for channels 6-8 or to use the PET-values as defined in the Pixel Exposure Time parameter table. Only one table of this class exists.

Table Template:

MCMD: SET HOT MODE (IOM Reference A6.37)

Columns:

State ID: identifier of state; range = 1-70
Channel 6 - Mode: definition of the exposure time in channel 6; range = 00/01
00 = normal mode, i.e. the exposure time is defined by the PET
01 = Hot Mode, i.e. the exposure time is not defined by the PET
Channel 6 - Short PET: scaling factor for determination of exposure time in channel 6 when mode is set to "01" (exposure time=28.125 μsec*$2^{\text{Short PET}}$); range = 0-10
Channel 7 - Mode: definition of the exposure time in channel 7; range = 00/01
00 = normal mode, i.e. the exposure time is defined by the PET
01 = Hot Mode, i.e. the exposure time is not defined by the PET
Channel 7 - Short PET: scaling factor for determination of exposure time in channel 7 when mode is set to "01" (exposure time=28.125 μsec*$2^{\text{Short PET}}$); range = 0-10
Channel 8 - Mode: definition of the exposure time in channel 8; range = 00/01
00 = normal mode, i.e. the exposure time is defined by the PET
01 = Hot Mode, i.e. the exposure time is not defined by the PET
Channel 8 - Short PET: scaling factor for determination of exposure time in channel 8 when mode is set to "01" (exposure time=28.125 μsec *$2^{\text{Short PET}}$); range = 0-10

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title	State affected
OCR_007	07.Jul.03	SRON	Revision of calibration states 67, 8, 16 and 48	16;48 (channel 6)

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State ID	Channel 6		Channel 7		Channel 8	
	Mode	Short PET	Mode	Short PET	Mode	Short PET
DEC	BIN	BIN	BIN	BIN	BIN	BIN
1	00	0000	00	0000	00	0000
2	00	0000	00	0000	00	0000
3	00	0000	00	0000	00	0000
4	00	0000	00	0000	00	0000
5	00	0000	00	0000	00	0000
6	00	0000	00	0000	00	0000
7	00	0000	00	0000	00	0000
8	00	0000	00	0000	00	0000
9	00	0000	00	0000	00	0000
10	00	0000	00	0000	00	0000
11	00	0000	00	0000	00	0000
12	00	0000	00	0000	00	0000
13	00	0000	00	0000	00	0000
14	00	0000	00	0000	00	0000
15	00	0000	00	0000	00	0000
16	00	0000	00	0000	00	0000
17	00	0000	00	0000	00	0000
18	00	0000	00	0000	00	0000
19	00	0000	00	0000	00	0000
20	00	0000	00	0000	00	0000
21	00	0000	00	0000	00	0000
22	00	0000	00	0000	00	0000
23	00	0000	00	0000	00	0000
24	00	0000	00	0000	00	0000
25	00	0000	00	0000	00	0000
26	00	0000	00	0000	00	0000
27	00	0000	00	0000	00	0000
28	00	0000	00	0000	00	0000
29	00	0000	00	0000	00	0000
30	00	0000	00	0000	00	0000
31	00	0000	00	0000	00	0000
32	00	0000	00	0000	00	0000
33	00	0000	00	0000	00	0000
34	00	0000	00	0000	00	0000
35	00	0000	00	0000	00	0000
36	00	0000	00	0000	00	0000
37	00	0000	00	0000	00	0000
38	00	0000	00	0000	00	0000
39	00	0000	00	0000	00	0000
40	00	0000	00	0000	00	0000
41	00	0000	00	0000	00	0000
42	00	0000	00	0000	00	0000
43	00	0000	00	0000	00	0000
44	00	0000	00	0000	00	0000
45	00	0000	00	0000	00	0000
46	00	0000	00	0000	00	0000
47	00	0000	00	0000	00	0000
48	00	0000	00	0000	00	0000
49	00	0000	00	0000	00	0000
50	00	0000	00	0000	00	0000
51	00	0000	00	0000	00	0000
52	00	0000	00	0000	00	0000
53	00	0000	00	0000	00	0000
54	00	0000	00	0000	00	0000
55	00	0000	00	0000	00	0000
56	00	0000	00	0000	00	0000
57	00	0000	00	0000	00	0000
58	00	0000	00	0000	00	0000
59	00	0000	00	0000	00	0000
60	00	0000	00	0000	00	0000
61	01	1000	01	1000	01	1000
62	00	0000	00	0000	00	0000
63	00	0000	00	0000	00	0000
64	00	0000	00	0000	00	0000
65	00	0000	00	0000	00	0000
66	00	0000	00	0000	00	0000
67	00	0000	00	0000	00	0000
68	00	0000	00	0000	00	0000
69	00	0000	00	0000	00	0000
70	00	0000	00	0000	00	0000

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State ID DEC	Channel 6 Mode BIN	Channel 6 Short PET BIN	Channel 7 Mode BIN	Channel 7 Short PET BIN	Channel 8 Mode BIN	Channel 8 Short PET BIN	
1	0	0	0	0	0	0	Nadir 01
2	0	0	0	0	0	0	Nadir 02
3	0	0	0	0	0	0	Nadir 03
4	0	0	0	0	0	0	Nadir 04
5	0	0	0	0	0	0	Nadir 05
6	0	0	0	0	0	0	Nadir 06
7	0	0	0	0	0	0	Nadir 07
8	0	0	0	0	0	0	Dark_Current_Cal_5
9	0	0	0	0	0	0	Nadir 09
10	0	0	0	0	0	0	Nadir 10
11	0	0	0	0	0	0	Nadir 11
12	0	0	0	0	0	0	Nadir 12
13	0	0	0	0	0	0	Nadir 13
14	0	0	0	0	0	0	Nadir 14
15	0	0	0	0	0	0	Nadir 15
16	1	1000	0	0	0	0	NDF Monitoring, ND Filter OUT
17	0	0	0	0	0	0	Sun_ASM_Diffuser
18	0	0	0	0	0	0	Sun_ASM_Diffuser
19	0	0	0	0	0	0	Sun_ASM_Diffuser
20	0	0	0	0	0	0	Sun_ASM_Diffuser
21	0	0	0	0	0	0	Sun_ASM_Diffuser
22	0	0	0	0	0	0	Sun_ASM_Diffuser_Atmosphere
23	0	0	0	0	0	0	Nadir 23
24	0	0	0	0	0	0	Nadir 24
25	0	0	0	0	0	0	Nadir 25
26	0	0	0	0	0	0	Dark_Current_Cal_4
27	0	0	0	0	0	0	Limb_Mesosphere
28	0	0	0	0	0	0	Limb 01
29	0	0	0	0	0	0	Limb 02
30	0	0	0	0	0	0	Limb 03
31	0	0	0	0	0	0	Limb 04
32	0	0	0	0	0	0	Limb 05
33	0	0	0	0	0	0	Limb 06
34	0	0	0	0	0	0	Limb 11
35	0	0	0	0	0	0	Limb 08
36	0	0	0	0	0	0	Limb 09
37	0	0	0	0	0	0	Limb 10
38	0	0	0	0	0	0	Nadir_Pointing_Left
39	1	1000	1	111	1	1000	Dark_Current_Cal_HM
40	0	0	0	0	0	0	Limb 13
41	0	0	0	0	0	0	Limb 12
42	0	0	0	0	0	0	Nadir 26
43	0	0	0	0	0	0	Nadir 27
44	0	0	0	0	0	0	Nadir 28
45	0	0	0	0	0	0	Nadir 29
46	0	0	0	0	0	0	Dark_Current_Cal_1
47	0	0	0	0	0	0	SO&C_Scan/Point
48	1	1000	0	0	0	0	NDF Monitoring, ND Filter IN
49	0	0	0	0	0	0	SO&C_Scan_long_duration
50	0	0	0	0	0	0	SO&C_Scan_fast_sweep
51	0	0	0	0	0	0	SO&C_Point
52	0	0	0	0	0	0	Sun_Diffusor_Cal_ND_O
53	0	0	0	0	0	0	Sub_Solar_Cal_Point
54	0	0	0	0	0	0	Moon_Cal_Scan
55	0	0	0	0	0	0	MO&C_Point_Troposphere
56	0	0	0	0	0	0	MO&C_Point
57	0	0	0	0	0	0	MO&C_Point_long_duration
58	0	0	0	0	0	0	Sub_Solar_Cal_Point/Scan
59	0	0	0	0	0	0	Spectral_Lamp_Cal_Mirror
60	0	0	0	0	0	0	Sub_Solar_Cal_Scan
61	1	1000	1	111	1	1000	White_Lamp (ND_IN)
62	0	0	0	0	0	0	Sun_Diffusor_Cal_ND_I
63	0	0	0	0	0	0	Dark_Current_Cal_2
64	0	0	0	0	0	0	Sun_Nadir/Elev_Mir_Cal_Point
65	0	0	0	0	0	0	ADC/Cal_Scan/Maintenance
66	0	0	0	0	0	0	Sun_Nadir/Elev_Mir_Cal_Scan
67	0	0	0	0	0	0	Dark_Current_Cal_3
68	0	0	0	0	0	0	Sun_Nadir/Elev_Mir_Cal_fast_swe
69	0	0	0	0	0	0	Spectral_Lamp_Cal_Diffusor
70	0	0	0	0	0	0	White_Lamp_Cal (ND_OUT)

5.1.3 State Index Table

This table defines the relation between states, cluster definition and co-adding index, both for the low and the high data rate. Only one table of this class exists.

Table Template:

MCMD: SET STATE INDEX TABLE (IOM Reference A6.54)

Columns:

State ID:	identifier of state, range = 1-70
Cluster Table Index:	selection of the clustering scheme (cluster: pixel area of a sensor/ channel with identical PET and co-adding factor); range = 1-4; the Cluster Definition Table is given in chapter 5.2.4
Coadding Index High Data Rate:	selection of the co-adding table for the high data rate; range = 1-70 (note that the equality of the maximum number of co-adding schemes and the maximum number of states is only accidental) the Co-Adding Tables are given in chapter 5.1.6 Note: for the ADC calibration, the co-adding index is set to ”0”
Coadding Index Low Data Rate:	selection of the co-adding table for the low data rate; range = 1-70 (note that the equality of the maximum number of co-adding schemes and the maximum number of states is only accidental) the Co-Adding Tables are given in chapter 5.1.6 Note: for the ADC calibration, the co-adding index is set to ”0”
Measurement Category ID:	identification of the measurement category, range = 1-22 (note that this parameter is not used onboard, it is added to the measurement data packets for ground processing purposes) the assignment of IDs is as follows: 1 = Nadir 2 = Limb 3 = Nadir_Pointing 4 = SO&C_Scanning 5 = SO&C_Pointing 6 = MO&C_Pointing 7 = Moon scanning 8 = Sun_Diffuser_Calibration (ND filter out) 9 = Sub-solar Calibration 10 = Spectral_Lamp_Calibration 11 = White_Lamp_Calibration 12 = Dark_Current_Calibration 13 = Sun Nadir/Elevation_Mirror_Calibration 14 = Moon Nadir/Elevation_Mirror_Calibration 15 = ADC Calibration 16 = Sun_Diffuser_Calibration (ND filter in) 17 = Nadir_eclipse (pointing) 18 = Nadir_eclipse (scanning) 19 = White_Lamp_Diffuser_Monitoring 20 = Dark_Current_Calibration Hot_Mode 21 = NDF_Monitoring_Filter-OUT 22 = NDF_Monitoring_Filter-IN 23 = Sun_ASM-Diffuser_Calibration 24 = Nadir_Pointing _LEFT

25 = Sun_ASM-Diffuser_Atmosphere
26 = Limb-Mesosphere

In fig. 5, the relation between the State Index table, the Co-Adding table and the Cluster Definition table is shown. It can be read as follows: For low data rates when executing state i, the cluster definition as listed in Cluster Definition table k is selected. This definition is associated with the co-adding scheme of Co-Adding table j. Each table consists of 64 identical Cluster Indices. All co-adding factors of table j are applied to the corresponding clusters of table k. Fig. 5 depicts an example where a co-adding factor f is applied to the cluster with index m and identifier n (the cluster is part of channel l; it starts at pixel l1 and has a length of Dl).

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title	State affected
none				

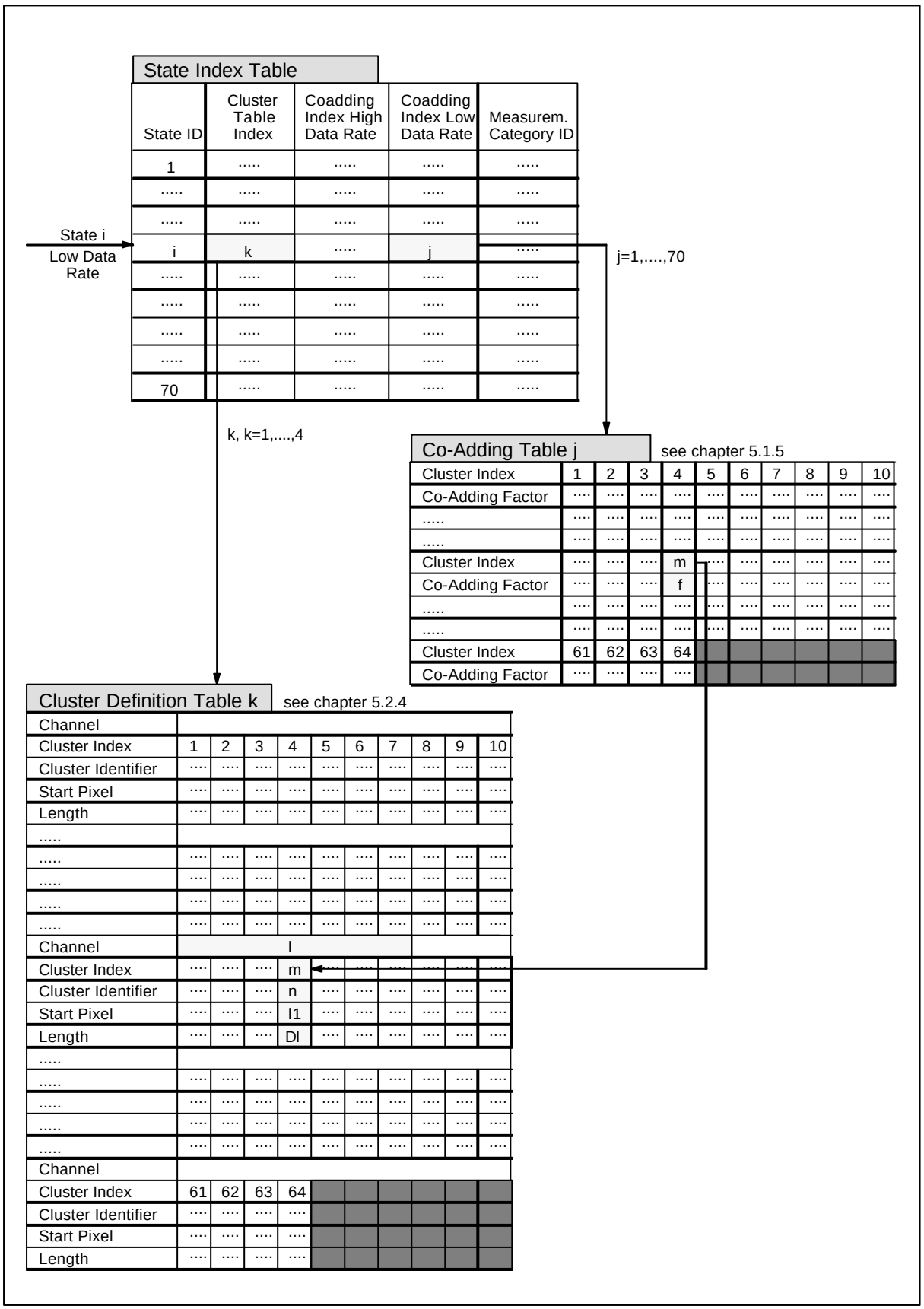

Figure 5 : Relation between State Index Table, Co-Adding Table and Cluster Definition Table

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State ID	Cluster Table Index	Coadding Index High Data Rate	Coadding Index Low Data Rate	Measurement Category ID
1	3	30	21	1
2	3	30	22	1
3	3	30	23	1
4	3	30	24	1
5	3	30	25	1
6	3	30	26	1
7	3	30	27	1
8	1	20	11	1
9	3	30	21	1
10	3	30	22	1
11	3	30	23	1
12	3	30	24	1
13	3	30	25	1
14	3	30	26	1
15	3	30	27	1
16	1	20	11	1
17	3	30	24	1
18	3	30	25	1
19	3	30	27	1
20	3	30	24	1
21	3	30	25	1
22	3	30	27	1
23	3	30	21	3
24	3	30	22	3
25	3	30	23	3
26	1	20	12	17
27	1	20	12	18
28	1	10	1	2
29	1	10	2	2
30	1	10	3	2
31	1	10	4	2
32	1	10	5	2
33	1	10	6	2
34	1	10	7	2
35	1	10	1	2

State ID	Cluster Table Index	Coadding Index High Data Rate	Coadding Index Low Data Rate	Measurement Category ID
36	1	10	2	2
37	1	10	3	2
38	1	10	4	2
39	1	10	5	2
40	1	10	6	2
41	1	10	7	2
42	3	30	24	3
43	3	30	25	3
44	3	30	26	3
45	3	30	27	3
46	1	44	43	12
47	1	32	31	4
48	1	20	11	3
49	1	32	31	4
50	1	36	35	4
51	1	32	31	5
52	1	40	39	8
53	1	32	31	9
54	1	47	47	7
55	1	47	47	14
56	1	47	47	6
57	1	47	47	6
58	1	32	31	9
59	1	53	53	10
60	1	36	35	9
61	1	55	55	11
62	1	40	39	16
63	1	49	49	12
64	1	32	31	13
65	1	0	0	15
66	1	32	31	13
67	1	50	50	12
68	1	36	35	13
69	1	57	57	10
70	1	59	59	19

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State ID	Cluster Definition Index	Coadding Index High Data Rate	Coadding Index Low Data Rate	Measurement Category ID
1	3	30	21	1
2	3	30	22	1
3	3	30	23	1
4	3	30	24	1
5	3	30	25	1
6	3	30	26	1
7	3	30	27	1
8	1	52	52	12
9	3	30	21	1
10	3	30	22	1
11	3	30	23	1
12	3	30	24	1
13	3	30	25	1
14	3	30	26	1
15	3	30	27	1
16	1	48	48	21
17	1	17	17	23
18	1	17	17	23
19	1	17	17	23
20	1	17	17	23
21	1	17	17	23
22	1	17	17	25
23	3	30	21	3
24	3	30	22	3
25	3	30	23	3
26	1	51	51	12
27	1	10	6	26
28	1	10	1	2
29	1	10	2	2
30	1	10	3	2
31	1	10	4	2
32	1	10	5	2
33	1	10	6	2
34	1	10	4	2
35	1	10	1	2

State ID	Cluster Definition Index	Coadding Index High Data Rate	Coadding Index Low Data Rate	Measurement Category ID
36	1	10	2	2
37	1	10	3	2
38	3	30	27	24
39	1	55	55	20
40	1	10	6	2
41	1	10	5	2
42	3	30	24	3
43	3	30	25	3
44	3	30	26	3
45	3	30	27	3
46	1	45	45	12
47	1	32	31	4
48	1	48	48	22
49	1	32	31	4
50	1	36	35	4
51	1	32	31	5
52	1	40	39	8
53	1	32	31	9
54	1	47	47	7
55	1	47	47	6
56	1	47	47	6
57	1	47	47	6
58	1	32	31	9
59	1	53	53	10
60	1	36	35	9
61	1	55	55	11
62	1	40	39	16
63	1	49	49	12
64	1	32	31	13
65	1	44	43	15
66	1	32	31	13
67	1	50	50	12
68	1	36	35	13
69	1	57	57	10
70	1	59	59	19

5.1.4 State Duration Table

This table defines the duration of state internal time intervals. Only one table of this class exists.

Table Template:

MCMD: SET STATE DURATION TABLE (IOM Reference A6.53)

Columns:

State ID: identifier of state, range = 1-70
Restart Time: definition of the elapse time between consecutive *RESTART* commands in limb mode in number of BCPS pulses; range = 1-255 (1 BCPS = 62.5 msec)
(SDPU) Mode: selection of measurement mode for SDPU; range = 0/1
0 = standard, continuous measurement
1 = limb mode, no data processing from elevation steps
SDPU Duration (Number of BCPS): definition of SDPU measurement mode in number of BCPS, range = 0 to 2^{16}-1
Wait Measurement Execution - WM: definition of the RTCS Wait parameter WM (the time to wait for the termination of the nominal scan, i.e. excluding the last phase of a state, in CT (1 CT = 3.90625 msec); range = 0 to 2^{32}-1
State Duration: definition of the total duration of the state, including all phases of the state (equivalent to the RTCS execution time) in CT; range = 0 to 2^{32}-1
Scanner Reset Wait - WSR: definition of the RTCS Wait parameter WSR (the time to wait for the termination of the last phase of a state) in CT; range = 0 to 2^{16}-1

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title	State affected
OCR_011	21/07/03	SOST-DLR; M.Gottwald	Improvement of limb/nadir matching	28 - 37; 40; 41

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State ID	Restart Time	(SDPU) Mode	SDPU Duration (Number of BCPS)	Wait Measurement Execution	State Duration	Scanner Reset Wait
1	255	STANDARD	1280	20456	21392	174
2	255	STANDARD	1280	20456	21392	174
3	255	STANDARD	1280	20456	21392	174
4	255	STANDARD	1040	16617	17551	172
5	255	STANDARD	1040	16617	17551	172
6	255	STANDARD	1040	16617	17551	172
7	255	STANDARD	1040	16617	17551	172
8	255	STANDARD	1040	16617	17551	172
9	255	STANDARD	1280	20456	21392	174
10	255	STANDARD	1280	20456	21392	174
11	255	STANDARD	1280	20456	21392	174
12	255	STANDARD	1040	16617	17551	172
13	255	STANDARD	1040	16617	17551	172
14	255	STANDARD	1040	16617	17551	172
15	255	STANDARD	1040	16617	17551	172
16	255	STANDARD	1040	16617	17551	172
17	255	STANDARD	320	5097	6031	172
18	255	STANDARD	320	5097	6031	172
19	255	STANDARD	320	5097	6031	172
20	255	STANDARD	320	5097	6031	172
21	255	STANDARD	320	5097	6031	172
22	255	STANDARD	320	5097	6031	172
23	255	STANDARD	1280	20456	21392	174
24	255	STANDARD	1280	20456	21392	174
25	255	STANDARD	1280	20456	21392	174
26	255	STANDARD	1280	20456	21392	174
27	255	STANDARD	1280	20456	21392	174
28	27	LIMB	945	15097	16031	172
29	27	LIMB	945	15097	16031	172
30	27	LIMB	945	15097	16031	172
31	27	LIMB	945	15097	16031	172
32	27	LIMB	945	15097	16031	172
33	27	LIMB	945	15097	16031	172
34	27	LIMB	945	15097	16031	172
35	27	LIMB	945	15097	16031	172
36	27	LIMB	945	15097	16031	172
37	27	LIMB	945	15097	16031	172
38	27	LIMB	945	15097	16031	172
39	27	LIMB	945	15097	16031	172
40	27	LIMB	945	15097	16031	172
41	27	LIMB	945	15097	16031	172
42	255	STANDARD	1040	16617	17551	172
43	255	STANDARD	1040	16617	17551	172
44	255	STANDARD	1040	16617	17551	172
45	255	STANDARD	1040	16617	17551	172
46	255	STANDARD	80	1257	2555	8
47	255	STANDARD	992	15849	17147	8
48	255	STANDARD	1040	16617	17551	172
49	255	STANDARD	2080	33256	34554	8
50	255	STANDARD	40	617	1915	8
51	255	STANDARD	944	15081	16379	8
52	255	STANDARD	480	7657	9911	801
53	255	STANDARD	352	5609	7286	8
54	255	STANDARD	192	3049	3988	177
55	255	STANDARD	192	3049	4011	200
56	255	STANDARD	512	8169	9108	177
57	255	STANDARD	2048	32744	33685	179
58	255	STANDARD	352	5609	7286	8
59	255	STANDARD	64	1001	3475	875
60	255	STANDARD	352	5609	7286	8
61	255	STANDARD	160	2537	5465	873
62	255	STANDARD	480	7657	10175	801
63	255	STANDARD	480	7657	8955	8
64	255	STANDARD	56	873	2171	8
65	255	STANDARD	16	506	4807	0
66	255	STANDARD	176	2793	4091	8
67	255	STANDARD	3200	51175	52473	8
68	255	STANDARD	40	617	1915	8
69	255	STANDARD	1280	20456	22932	877
70	255	STANDARD	1280	20456	23122	875

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State ID	Restart Time	(SDPU) Mode	Duration (BCPS)	Wait Measurement Execution (counts)	State Duration (counts)	Scanner Reset Wait (counts)	
1	255	STANDARD	1280	20456	21392	174	Nadir 01
2	255	STANDARD	1280	20456	21392	174	Nadir 02
3	255	STANDARD	1280	20456	21392	174	Nadir 03
4	255	STANDARD	1040	16617	17551	172	Nadir 04
5	255	STANDARD	1040	16617	17551	172	Nadir 05
6	255	STANDARD	1040	16617	17551	172	Nadir 06
7	255	STANDARD	1040	16617	17551	172	Nadir 07
8	255	STANDARD	640	10217	11151	172	Dark_Current_Cal_5
9	255	STANDARD	1280	20456	21392	174	Nadir 09
10	255	STANDARD	1280	20456	21392	174	Nadir 10
11	255	STANDARD	1280	20456	21392	174	Nadir 11
12	255	STANDARD	1040	16617	17551	172	Nadir 12
13	255	STANDARD	1040	16617	17551	172	Nadir 13
14	255	STANDARD	1040	16617	17551	172	Nadir 14
15	255	STANDARD	1040	16617	17551	172	Nadir 15
16	255	STANDARD	192	3049	5713	873	NDF Monitoring, ND Filter OUT
17	255	STANDARD	480	7657	10050	940	Sun_ASM_Diffuser
18	255	STANDARD	480	7657	10050	940	Sun_ASM_Diffuser
19	255	STANDARD	480	7657	10050	940	Sun_ASM_Diffuser
20	255	STANDARD	480	7657	10050	940	Sun_ASM_Diffuser
21	255	STANDARD	480	7657	10050	940	Sun_ASM_Diffuser
22	255	STANDARD	512	8169	10562	940	Sun_ASM_Diffuser_Atmosphere
23	255	STANDARD	1280	20456	21392	174	Nadir 23
24	255	STANDARD	1280	20456	21392	174	Nadir 24
25	255	STANDARD	1280	20456	21392	174	Nadir 25
26	255	STANDARD	480	7657	8591	172	Dark_Current_Cal_4
27	27	LIMB	648	10345	11279	172	Limb_Mesosphere
28	27	LIMB	837	13369	14303	172	Limb 01_short
29	27	LIMB	837	13369	14303	172	Limb 02_short
30	27	LIMB	837	13369	14303	172	Limb 03_short
31	27	LIMB	837	13369	14303	172	Limb 04_short
32	27	LIMB	837	13369	14303	172	Limb 05_short
33	27	LIMB	837	13369	14303	172	Limb 06_short
34	27	LIMB	837	13369	14303	172	Limb 11_short
35	27	LIMB	837	13369	14303	172	Limb 08_short
36	27	LIMB	837	13369	14303	172	Limb 09_short
37	27	LIMB	837	13369	14303	172	Limb 10_short
38	255	STANDARD	1040	16617	17551	172	Nadir_Pointing_Left
39	255	STANDARD	192	3049	5442	940	Dark_Current_Cal_HM
40	27	LIMB	837	13369	14303	172	Limb 13 _short
41	27	LIMB	837	13369	14303	172	Limb 12_short
42	255	STANDARD	1040	16617	17551	172	Nadir 26
43	255	STANDARD	1040	16617	17551	172	Nadir 27
44	255	STANDARD	1040	16617	17551	172	Nadir 28
45	255	STANDARD	1040	16617	17551	172	Nadir 29
46	255	STANDARD	160	2537	3471	172	Dark_Current_Cal_1
47	255	STANDARD	1056	16873	18171	8	SO&C_Scan/Point
48	255	STANDARD	192	3049	5977	873	NDF Monitoring, ND Filter IN
49	255	STANDARD	2080	33256	34554	8	SO&C_Scan_long_duration
50	255	STANDARD	48	745	2043	8	SO&C_Scan_fast_sweep
51	255	STANDARD	1024	16361	17659	8	SO&C_Point
52	255	STANDARD	480	7657	9911	801	Sun_Diffusor_Cal_ND_O
53	255	STANDARD	352	5609	7286	8	Sub_Solar_Cal_Point
54	255	STANDARD	192	3049	3988	177	Moon_Cal_Scan
55	255	STANDARD	2272	36328	37269	179	MO&C_Point_Troposphere
56	255	STANDARD	640	10217	11156	177	MO&C_Point
57	255	STANDARD	2048	32744	33685	179	MO&C_Point_long_duration
58	255	STANDARD	352	5609	7286	8	Sub_Solar_Cal_Point/Scan
59	255	STANDARD	192	3049	5523	875	Spectral_Lamp_Cal_Mirror
60	255	STANDARD	352	5609	7286	8	Sub_Solar_Cal_Scan
61	255	STANDARD	192	3049	5977	873	White_Lamp (ND_IN)
62	255	STANDARD	480	7657	10175	801	Sun_Diffusor_Cal_ND_I
63	255	STANDARD	480	7657	8591	172	Dark_Current_Cal_2
64	255	STANDARD	64	1001	2299	8	Sun_Nadir/Elev_Mir_Cal_Point
65	255	STANDARD	320	5097	10803	172	ADC/Cal_Scan/Maintenance
66	255	STANDARD	176	2793	4091	8	Sun_Nadir/Elev_Mir_Cal_Scan
67	255	STANDARD	1280	20456	21392	174	Dark_Current_Cal_3
68	255	STANDARD	48	745	2043	8	Sun_Nadir/Elev_Mir_Cal_fast_sweep
69	255	STANDARD	1280	20456	22932	877	Spectral_Lamp_Cal_Diffusor
70	255	STANDARD	1280	20456	23122	875	White_Lamp_Cal (ND_OUT)

5.1.5 Co-Adding Table

A Co-Adding table exists for each co-adding index, i.e. the total number of tables in this class is 70 (the equality of the number of co-adding tables and the number of states is only accidental). Each Co-Adding table stores consecutively 64 co-adding factors.

Table Template:

MCMD: SET CO-ADDING TABLE (IOM Reference A6.33)

Rows:

Cluster Index: identifier of the cluster (it refers to the Cluster Index in the Cluster Definition
Table - see chapter 5.2.4); range = 1-64 (maximum)

Co-Adding Factor: number of co-addings to be applied to the pixel data in a cluster;
range = 1-64 (maximum)
1 = no co-adding applied
n, $1 < n \leq 64$ (n data words will be co-added)

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title	Co-Adding Table affected
OCR_007	07.Jul.03	SRON	Revision of calibration states 67, 8, 16 and 48	50

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CO_ADDING	1							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	2							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	3							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	4							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	5							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	6							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	7							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	3	3	3	3	3
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	3	6	6	6	3	3	3	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	8							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	9							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	10							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	11							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	2	2	2	16	16	16	16	16
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	16	16	16	16	16	16	16	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	4	4	4	4	4	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	12							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	8	8	8	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	13							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	14							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	15							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	16							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	17							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	18							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 1

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	2	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 2

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	2	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	24	24	6	24
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	24	24	24	6	24	24	8	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	2	8	8	24	24	6	24	24
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 3

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	2	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	4	4	24	24	6	24
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	24	24	24	6	24	24	4	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	4	4	24	24	6	24	24
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	4	1	4	4	4	1	4
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 4

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	2	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	4	4	8	8	2	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	8	2	8	8	4	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	4	4	8	8	2	8	8
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	4	1	4	4	4	1	4
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 5

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	2	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	4	4	8	8	2	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	8	2	8	8	4	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	4	4	8	8	2	8	8
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	4	1	4	4	4	1	4
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 6

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 7

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	4	4	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	2	1	4	4	24	24	6	24
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	24	24	24	6	24	24	4	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	4	4	4	4	1	4	4
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	4	1	4	4	4	1	4
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 8

CO_ADDING 9

CO_ADDING 10

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 11

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	2	1	4	8	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	2	1	4	16	8	16	4	16
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	16	16	16	16	16	16	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	16	8	16	16	8	8	8	4
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	8	8	8	16	16	16	8	16
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	8	16	8	16	8	16	16	4
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	4	1	4	1	4	4	1	4
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 12

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 13

CO_ADDING 14

CO_ADDING 15

Cluster Index	1	2	3	4	5	6	7	8

CO_ADDING 16

CO_ADDING 17

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	4	4	4	4	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	4	4	4	4	16	16	16	16
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	16	16	16	16	16	16	8	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	8	16	16	16	16	16
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	4	4	4	4	2	2	2
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 18

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CO_ADDING	19							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	20							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	21							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	22							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	23							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	24							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	25							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	1	8	1	8	1	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	1	1	8	1	8	1	8
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	1	1	4	1	4	1	4
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	4	1	4	1	4	1	4	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	4	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	26							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	4	4	2	1	1	1	1	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	1	8	2	8	2	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	2	2	8	2	8	2	8
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	8	2	2	8	2	8	2	8
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	8	2	8	2	8	2	8	2
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	2	8	2	2	2	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	27							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	4	4	1	1	1	1	1	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	2	8	2	8	2	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	2	2	8	2	8	2	8
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	8	2	2	8	2	8	2	8
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	8	2	8	2	8	2	8	2
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	2	8	2	2	2	2	2	2
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	28							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	29							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	30							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	31							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	8	8	8	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	32							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	2
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	2	2	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	33							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	34							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	35							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	4	4	4	4	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	4	4	4	4	4	4	4	4
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	4	4	4	4	4	4	4	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	4	4	4	4	4	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	36							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 19

CO_ADDING 20

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 21

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	2	2	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 22

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	2	2	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	2	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 23

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	4	4	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	4	2	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	2	2	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	2	2	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	2	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 24

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	2	2
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	2	1	1	4	4	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	4	4	2	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	4	4	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	2	2	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	1	1	1	1	1	2	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 25

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	2	2	2
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	2	8	8	1	1	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	8	8	8	8	8	8	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	1	8	8	4	4	4	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	1	4	8	2	8	1	8
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	1	8	1	8	1	8	8	1
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 26

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	4	16	16	16	4	16
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	4	16	16	16	16	16	16	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	16	4	16	16	4	4	4	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	2	4	8	4	8	2	8
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	2	8	2	8	2	8	8	2
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	2	1	2	1	2	2	1	2
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 27

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	5	1	1	2	1	20	4	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	4	16	16	16	4	16
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	4	16	16	16	16	16	16	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	16	4	16	16	8	8	8	2
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	8	8	8	8	8	8	2	8
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	2	8	2	8	2	8	8	2
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	2	1	2	1	2	2	1	2
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 28

CO_ADDING 29

CO_ADDING 30

CO_ADDING 31

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	8	8	8	8	16	16	16	16
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	16	8	8	8	8	8	8	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	8	16	16	16	16	16
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 32

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	2	2	2	2
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	2	2	2
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 33

CO_ADDING 34

CO_ADDING 35

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	4	4	4	4	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	4	4	4	4	8	8	8	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	4	4	4	4	4	4	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	4	4	4	8	8	8	8	8
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	4	4	4	4	4	4	4
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 36

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

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CO_ADDING	37							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	40							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	2	2	2	2	2	2	2	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	43							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	8	8	8	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	38							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	41							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	44							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	2	2	2	2	2	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	39							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	8	8	8	8	8	4
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	4	4	4	4	4	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	42							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	45							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	46							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	49							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	2	2	2	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	52							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	47							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	50							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	2	2	2	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	40	40	40	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	53							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	2	2
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	2	2	2	32	32	32	64	64
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	64	16	16	16	16	16	16	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	32	32	32	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	48							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	51							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	54							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 37

CO_ADDING 38

CO_ADDING 39

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	8	8	8	8	16	16	16	16
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	16	8	8	8	8	8	8	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	8	16	16	16	16	16
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	8	8	8	8	8	4	4	4
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 46

CO_ADDING 47

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 48

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	32	32	32	32
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	32	64	64	64	64	64	64	64
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	64	64	64	64	64	64	64	64
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	64	64	64	64	64	64	64	64
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 40

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	2	2	2	2	2	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 41

CO_ADDING 42

CO_ADDING 49

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 50

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 51

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 43

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	16	16	16	16	16	16	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	8	16	16	16	8	8	8	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 44

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	16	16	16	16	16	16	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	8	16	16	16	8	8	8	8
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	8	8	8	8	8	8	8	8
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 45

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 52

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 53

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	2	2
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	2	2	2	2	32	32	32	32
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	32	64	64	64	64	64	16	16
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	16	16	16	16	16	16	16	16
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	4	4	4	4	4	4	4
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 54

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CO_ADDING	55							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	5	5
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	5	5	5	40	40	40	20	20
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	20	40	40	40	40	40	40	40
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	40	40	40	40	40	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	58							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	61							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	56							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	59							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	2	2
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	2	2	2	2	4	4	4	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	20	20	20	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	62							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	57							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	8
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	8	20	20	20	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	60							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	63							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	64							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	67							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	70							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	65							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	68							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	66							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING	69							
Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 55

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	8	8
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	8	8	8	8	16	16	16	16
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	16	32	32	32	32	32	32	32
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	32	32	32	32	32	32	32	32
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	32	32	32	32	32	32	32	32
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 56

CO_ADDING 57

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	2	2	2	2
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	2	4	4	4	4	4	1	1
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	4	4	4	4	4
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	20	20	20	20	20	20	20	20
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 58

CO_ADDING 59

Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	1	1	4	4	4	4
Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	4	10	10	10	10	10	10	10
Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	10	10	10	40	40	40	40	40
Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	40	40	40	40	40	20	20	20
Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

CO_ADDING 60

CO_ADDING 61

CO_ADDING 62

CO_ADDING 63

CO_ADDING 64

CO_ADDING 65

CO_ADDING 66

CO_ADDING 67

CO_ADDING 68

CO_ADDING 69

CO_ADDING 70

5.1.6 Detector Cmd Words

The table Detector Cmd Words defines the parameters for the non state dependent settings of the 8 detector channels. The table is set by the identical MCMD as the DME ENABLE list. Only one table of this class exists.

Table Template:

MCMD: SET DETECTOR COMMAND WORDS (IOM Reference A6.34)

Header Line: spans the area of information for the Detector Cmd Word

Columns

DME DEC:	ID of the detector module electronics
Exp. Time Factor:	parameter not delivered from this table to the SDPU
Mode BIN:	defines the operational mode. Set to default value '00'. Range: 00 – 01 channel 1 – 5 ….. normal mode channel 6 – 8 .... state dependent defined by MCMD - SET HOT MODE
Section Address DEC:	defines the intersection of the 2 virtual channels of a detector applies to channel 1 – 5 only Range: 1 – 511; '0' used if no virtual channels are defined
Ratio BIN:	parameter not delivered from this table to the SDPU. Set to default value '00001'. applies to channel 1 – 5 only
Control BIN:	parameter not delivered from this table to the SDPU. Set to default value '01'.
Comp Mode BIN:	defines the setting of the 'Offset' compensation. applies to channel 6 – 8 only Range: 00 – 11
Fine Bias Setting BIN:	adjusts the setting of the 'Bias' voltage. applies to channel 6 – 8 only Range: 000 – 111
Short PET BIN:	defines PET in HOT MODR (not delivered from this table to the SDPU) applies to channel 6 – 8 only

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title
none			

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	Detector Command Word							
DME DEC	Exp. Time Factor	Mode BIN	Section Address DEC	Ratio BIN	Control BIN	Comp Mode BIN	Fine Bias Setting BIN	Short PET BIN
1		*00*	**372**	*00001*	*01*			
2		*00*	**417**	*00001*	*01*			
3		*00*	*0*	*00001*	*01*			
4		*00*	*0*	*00001*	*01*			
5		*00*	*0*	*00001*	*01*			
6		*00*			*01*	00	110	*0000*
7		*00*			*01*	00	110	*0000*
8		*00*			*01*	00	110	*0000*

not applicable indirect selection by other parameter

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	Detector Command Word							
DME DEC	Exp. Time Factor	Mode BIN	Section Adress DEC	Ratio BIN	Control BIN	Comp Mode BIN	Fine Bias Setting BIN	Short PET BIN
1		*00*	**276**	*00001*	*01*			
2		*00*	**427**	*00001*	*01*			
3		*00*	*0*	*00001*	*01*			
4		*00*	*0*	*00001*	*01*			
5		*00*	*0*	*00001*	*01*			
6		*00*			*01*	00	110	*0000*
7		*00*			*01*	00	110	*0000*
8		*00*			*01*	00	110	*0000*

not applicable indirec selection by other parameter

5.1.7 DME ENABLE List

The table DME ENABLE list defines if one of the 8 detector channels is enabled/disabled. The table is set by the identical MCMD as the Detector Cmd Words table. Only one table of this class exists.

Table Template:

MCMD: SET DETECTOR COMMAND WORDS (IOM Reference A6.34)

Columns

DME DEC: ID of the detector module electronics
Enabled/Disabled BIN: defines if the DME is activated.
Range: 0 –1

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title
None			

DME DEC	Enabled/ Disabled BIN
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1

No corrections to above table were introduced.

5.2 COMMON Parameter Tables

5.2.1 Basic Scan Profile Table

This table defines the parameters for the Basic Scan Profile. Only one table of this class exists.

Table Template:

MCMD: SET SCANNER BASIC PROFILES (IOM Reference A6.45)

Columns:

Basic Scan Profile Identifier:	identifier of Basic Scan profile; range = 0-14
Basic Scan Position Azimuth:	definition of the scanner azimuth start position of a basic scan profile in μrad; range = -6283185 to 6283185 (-2π to 2 π)
Basic Scan Rate Azimuth:	definition of the scanner azimuth scan rate in μrad/sec; range = -32768 to 32767 (-0.032768 to +0.032767 rad/sec)
Basic Scan Position Elevation:	definition of the scanner elevation start position of a basic scan profile in μrad; range = -6283185 to 6283185 (-2π to 2 π)
Basic Scan Rate Elevation:	definition of the scanner elevation scan rate in μrad/sec; range = -32768 to 32767 (-0.032768 to +0.032767 rad/sec)

Note that the Basic Scan Profile parameters are preliminary. They are subject to change based on present testing activities and the results of a detailed orbit analysis, in particular the visibility of celestial objects within the IFOV.

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title	Basic Profile affected
OCR_002	20.Feb.03	IFE, S.Noel	Change nadir scan w.r.t. TCFoV anomaly	ESM 1
OCR_008	09/05/03	SRON; G.Lichtenberg	Change of final limb tangent height step ('Limb dark') from 150km to 250km	ESM 5; ESM 9

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	Azimuth		Elevation		
Basic Scan Profile Identifier	Basic Scan Position	Basic Scan Rate	Basic Scan Position	Basic Scan Rate	
	value [10-6 rad]	value [10-6 rad/sec]	value [10-6 rad]	value [10-6 rad/sec]	
0	0000436332	000000	-0000261799	000000	*0* *no scan*
1	0000785398	000000	-0000785398	000000	*1* *nadir*
2	-0000785398	000000	-0000237101	000000	*2* *limb scan./point.*
3	-0000471239	000131	-0000234032	000445	*3* *sun scan./point. with mirror; start 17,2km above horizon*
4	0000785398	000000	0000986111	000000	*4* *sub solar cal.*
5	0002574361	-000174	-0000234032	000384	*5* *moon scan./point. with mirror; start 17,2km above horizon*
6	-0000468621	000131	0002748894	000000	*6* *sun point. with diff.*
7	0000000000	000000	0000000000	000000	*7* *Spare*
8	-0000468621	000131	0000570714	000222	*8* *mirror °radation sun scan./point.*
9	-0000785398	000000	-0000213849	000000	*9* *dark current (150km above horizon, downrange)*
10	0000785398	000000	0000171042	000000	*10* *internal wavelenght cal. with mirror*
11	0000785398	000000	0003319617	000000	*11* *int. wavelenght/rel.rad. cal. with diffusor*
12	0000785398	000000	0000185005	000000	*12* *internal relative radiometric cal. with mirror*
13	0002574361	-000174	0000570714	000192	*13* *mirror °radation moon scan./point.*
14	-0000471239	000227	-0000234032	000000	*14* *sun direction (17,2km above horizon, fix elevation)*

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Basic Scan Profile Identifier	Azimuth		Elevation		
	Basic Scan Position	Basic Scan Rate	Basic Scan Position	Basic Scan Rate	
	value [10-6 rad]	value [10-6 rad/sec]	value [10-6 rad]	value [10-6 rad/sec]	
0	0000000000	000000	-0000261799	000000	
1	0000000000	000000	-0000794125	000000	
2	-0000785398	000000	-0000237101	000000	
3	-0000471239	000131	-0000234032	000445	
4	0003298672	-008145	0000986111	000000	
5	-0001003564	-000174	-0000213849	000000	
6	-0000468621	000131	0002879793	000000	
7	-0006283185	000000	-0006283185	000000	
8	-0000468621	000131	0000570714	000222	
9	-0000785398	000000	-0000196437	000000	
10	0003263766	-008145	0000170480	000000	
11	0003228859	-008145	0003319617	000000	
12	0003193953	-008145	0000183658	000000	
13	0003159046	-008145	0000186279	000000	
14	-0000471239	000227	-0000234032	000000	

5.2.2 Relative Scan Profile Table

The relative scan profile is superimposed onto the basic scan profile. Each table describes the parameters for one Relative Scan Profile. Six tables of this class exists.

Table Template:

MCMD: SET SCANNER RELATIVE PROFILE (IOM Reference A6.48)

Columns:

Common parameter:	parameters, applicable to the entire profile (columns 3 -8) note that the term ”common” is only used locally; it does not refer to the COMMON parameters (chapter 5.2)
Segment 1 - Segment 8/16:	identifier of the segment of the Relative Scan Profile; the maximum number of segments is given by the row parameter *Number of used Segments* (segments are sub-divisions of a profile)

Rows:

Number of used Segments:	number of segments used for the construction of the profile; range = 1-16 (identical to columns 3-10)
Duration of Segment (msec):	duration of a segment in msec; range = 0-65535
Angular variation (μrad):	definition of the difference between the angle at the end of the segment and the angle at the start of the profile in μrad; range = -6283185 to 6283185 (-2π to 2π)
Acceleration at Start of Segment (mrad/sec^2):	definition of the acceleration at the start of a segment in mrad/sec^2; range = -32768 to +32767
Acceleration at End of Segment (mrad/sec^2):	definition of the acceleration at the end of a segment in mrad/sec^2; range = -32768 to +32767
Number of Support Points:	selection of number of support points for the calculation of the acceleration function (the position between support points is derived by linear interpolation; range = 0-255
BCPS Synchronisation:	selection of synchronisation mode at start of a segment; range = 0/1 0 = no synchronisation 1 = synchronisation (start when a BCPS is received)

At time of issue the following OCR’s are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title	Relative Profile affected
OCR_002	20.Feb.03	IFE, S.Noel	Change nadir scan w.r.t. TCFoV anomaly	2

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Scanner Relative Profile 1

	Common Parameter	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Segment 6	Segment 7	Segment 8
Number of used Segments	4								
Profile ID	1								
Duration of Segment [msec]		50	51	50	1536				
Angular Variation [µrad]		83	83	83	83				
Acceleration at Start of Segment [mrad/sec2]		0	0	0	0				
Acceleration at End of Segment [mrad/sec2]		0	0	0	0				
Number of Support Points		1	1	1	12				
BCPS Synchronisation		1	0	0	0				
	Common Parameter	Segment 9	Segment 10	Segment 11	Segment 12	Segment 13	Segment 14	Segment 15	Segment 16
Duration of Segment [msec]									
Angular Variation [µrad]									
Acceleration at Start of Segment [mrad/sec2]									
Acceleration at End of Segment [mrad/sec2]									
Number of Support Points									
BCPS Synchronisation									

Scanner Relative Profile 2

	Common Parameter	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Segment 6	Segment 7	Segment 8
Number of used Segments	6								
Profile ID	2								
Duration of Segment [msec]		12	3976	12	8	984	8		
Angular Variation [µrad]		0	69395	69395	69046	350	0		
Acceleration at Start of Segment [mrad/sec2]		2792	0	-2792	-6283	0	6283		
Acceleration at End of Segment [mrad/sec2]		2792	0	-2792	-6283	0	6283		
Number of Support Points		6	1	6	4	1	4		
BCPS Synchronisation		1	0	0	0	0	0		
	Common Parameter	Segment 9	Segment 10	Segment 11	Segment 12	Segment 13	Segment 14	Segment 15	Segment 16
Duration of Segment [msec]									
Angular Variation [µrad]									
Acceleration at Start of Segment [mrad/sec2]									
Acceleration at End of Segment [mrad/sec2]									
Number of Support Points									
BCPS Synchronisation									

Scanner Relative Profile 3

	Common Parameter	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Segment 6	Segment 7	Segment 8
Number of used Segments	4								
Profile ID	3								
Duration of Segment [msec]		50	51	50	1536				
Angular Variation [µrad]		-589	-589	0	36861				
Acceleration at Start of Segment [mrad/sec2]		471	0	471	0				
Acceleration at End of Segment [mrad/sec2]		471	0	471	0				
Number of Support Points		5	1	5	1				
BCPS Synchronisation		1	0	0	0				
	Common Parameter	Segment 9	Segment 10	Segment 11	Segment 12	Segment 13	Segment 14	Segment 15	Segment 16
Duration of Segment [msec]									
Angular Variation [µrad]									
Acceleration at Start of Segment [mrad/sec2]									
Acceleration at End of Segment [mrad/sec2]									
Number of Support Points									
BCPS Synchronisation									

Scanner Relative Profile 2

	Common Parameter	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Segment 6	Segment 7	Segment 8
Number of used Segments	6								
Profile ID	2								
Duration of Segment [msec]		12	3976	12	8	984	8	0	0
Angular Variation [mrad]		0	67226	67226	66888	339	0	0	0
Acceleration at Start of Segment [mrad/sec2]		2705	0	-2705	-6087	0	6087	0	0
Acceleration at End of Segment [mrad/sec2]		2705	0	-2705	-6087	0	6087	0	0
Number of Support Points		6	1	6	4	1	4	0	0
BCPS Synchronisation		1	0	0	0	0	0	0	0

	Common Parameter	Segment 9	Segment 10	Segment 11	Segment 12	Segment 13	Segment 14	Segment 15	Segment 16
Duration of Segment [msec]		0	0	0	0	0	0	0	0
Angular Variation [mrad]		0	0	0	0	0	0	0	0
Acceleration at Start of Segment [mrad/sec2]		0	0	0	0	0	0	0	0
Acceleration at End of Segment [mrad/sec2]		0	0	0	0	0	0	0	0
Number of Support Points		0	0	0	0	0	0	0	0
BCPS Synchronisation		0	0	0	0	0	0	0	0

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Scanner Relative Profile 4

	Common Parameter	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Segment 6	Segment 7	Segment 8
Number of used Segments	2								
Profile ID	4								
Duration of Segment [msec]		1000	1000						
Angular Variation [µrad]		1440	0						
Acceleration at Start of Segment [mrad/sec2]		0	0						
Acceleration at End of Segment [mrad/sec2]		0	0						
Number of Support Points		1	1						
BCPS Synchronisation		1	0						

	Common Parameter	Segment 9	Segment 10	Segment 11	Segment 12	Segment 13	Segment 14	Segment 15	Segment 16
Duration of Segment [msec]									
Angular Variation [µrad]									
Acceleration at Start of Segment [mrad/sec2]									
Acceleration at End of Segment [mrad/sec2]									
Number of Support Points									
BCPS Synchronisation									

Scanner Relative Profile 5

	Common Parameter	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Segment 6	Segment 7	Segment 8
Number of used Segments	2								
Profile ID	5								
Duration of Segment [msec]		1000	1000						
Angular Variation [µrad]		616	1232						
Acceleration at Start of Segment [mrad/sec2]		0	0						
Acceleration at End of Segment [mrad/sec2]		0	0						
Number of Support Points		1	1						
BCPS Synchronisation		1	0						

	Common Parameter	Segment 9	Segment 10	Segment 11	Segment 12	Segment 13	Segment 14	Segment 15	Segment 16
Duration of Segment [msec]									
Angular Variation [µrad]									
Acceleration at Start of Segment [mrad/sec2]									
Acceleration at End of Segment [mrad/sec2]									
Number of Support Points									
BCPS Synchronisation									

Scanner Relative Profile 6

	Common Parameter	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Segment 6	Segment 7	Segment 8
Number of used Segments	3								
Profile ID	6								
Duration of Segment [msec]		18	89	18					
Angular Variation [µrad]		84	1056	1140					
Acceleration at Start of Segment [mrad/sec2]		547	0	-547					
Acceleration at End of Segment [mrad/sec2]		547	0	-547					
Number of Support Points		18	1	18					
BCPS Synchronisation		1	0	0					

	Common Parameter	Segment 9	Segment 10	Segment 11	Segment 12	Segment 13	Segment 14	Segment 15	Segment 16
Duration of Segment [msec]									
Angular Variation [µrad]									
Acceleration at Start of Segment [mrad/sec2]									
Acceleration at End of Segment [mrad/sec2]									
Number of Support Points									
BCPS Synchronisation									

Scanner Relative Profile 6

	Common Parameter	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Segment 6	Segment 7	Segment 8
Number of used Segments	16								
Profile ID	6								
Duration of Segment [msec]		125	125	125	125	125	125	125	125
Angular Variation [mrad]		0	1483	1483	0	0	1483	1483	0
Acceleration at Start of Segment [mrad/sec2]		195	0	-195	0	195	0	-195	0
Acceleration at End of Segment [mrad/sec2]		195	0	-195	0	195	0	-195	0
Number of Support Points		5	1	5	1	5	1	5	1
BCPS Synchronisation		1	0	0	0	0	0	0	0
	Common Parameter	Segment 9	Segment 10	Segment 11	Segment 12	Segment 13	Segment 14	Segment 15	Segment 16
Duration of Segment [msec]		125	125	125	125	125	125	125	125
Angular Variation [mrad]		0	1483	1483	0	0	1483	1483	1
Acceleration at Start of Segment [mrad/sec2]		195	0	-195	0	195	0	-195	0
Acceleration at End of Segment [mrad/sec2]		195	0	-195	0	195	0	-195	0
Number of Support Points		5	1	5	1	5	1	5	1
BCPS Synchronisation		0	0	0	0	0	0	0	0

5.2.3 Cluster per Channel Table

This table defines the number of clusters in each channel. Only one table of this class exists.

Table Template:

MCMD: SET CLUSTERS PER CHANNEL (IOM Reference A6.32)

Columns:

Cluster Table ID: identifier of the corresponding Cluster Table Index; range = 1-4
Channel 1 - Channel 8: number of clusters within the particular detector channel; range = 1a-8

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title
None			

Blank Page

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Cluster Table ID	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8
1	3	3	2	3	3	3	3	3	3	3
2	2	3	3	3	10	9	9	11	3	3
3	3	4	4	4	9	8	8	10	3	3
4	1	1	1	1	1	1	1	1	1	1

Cluster Definition Table ID	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8
1	3	3	3	3	5	5	5	5	5	3
2	1	1	1	1	1	1	1	1	1	1
3	3	3	3	2	9	8	7	12	6	3
4	1	1	1	1	1	1	1	1	1	1

5.2.4 Cluster Definition Table

This table defines the clustering scheme. A total of four tables of this class exist, corresponding to the number of different clusterings.

Table Template:

MCMD: SET CLUSTER DEFINITIONS (IOM Reference A6.31)

Rows:

Channel:	identifier of the channel; range = 1a-8 (channels 1 and 2 are subdivided into 2 separate channels)
Cluster Index:	identifier of the cluster; range = 1-64 (maximum)
Cluster Identifier:	identifier of a cluster within a particular channel, i.e. channel cluster counter; range = 0-15
Start Pixel:	definition of the start pixel of a cluster; range = 0-8191 note that the numbering is continuous through all channels
Length:	definition of the number of pixels contained in a cluster; range = 1-1024

Note that the Cluster Definition 4 is presently defined for test purposes only and therefore not used operationally.

At time of issue the following OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

OCR	Issue date	issued by	Title	Cluster Definition Table affected
none				

Blank Page

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Cluster Definitions 1 total number of clusters: 29

Channel	*1a*			*1b*			*2b*	
Cluster Index	1	2	3	4	5	6	7	8
Cluster Identifier	0	1	2	3	4	5	0	1
Start Pixel	0	5	216	744	1009	1019	1024	1119
Length	5	10	528	64	10	5	5	739
Channel	*2a*			*3*			*4*	
Cluster Index	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*
Cluster Identifier	2	3	4	0	1	2	0	1
Start Pixel	1858	2033	2043	2048	2094	3067	3072	3118
Length	96	10	5	5	930	5	5	931
Channel	*4*	*5*			*6*			*7*
Cluster Index	17	18	19	20	21	22	23	24
Cluster Identifier	2	0	1	2	0	1	2	0
Start Pixel	4091	4096	4150	5115	5120	5165	6134	6144
Length	5	5	914	5	10	933	10	10
Channel	*7*		*8*					
Cluster Index	25	26	27	28	29	30	31	32
Cluster Identifier	1	2	0	1	2	0	0	0
Start Pixel	6217	7158	7168	7241	8182	0	0	0
Length	877	10	10	878	10	1	1	1
Channel								
Cluster Index	33	34	35	36	37	38	39	40
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel								
Cluster Index	41	42	43	44	45	46	47	48
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel								
Cluster Index	49	50	51	52	53	54	55	56
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel								
Cluster Index	57	58	59	60	61	62	63	64
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1

Cluster Table ID 1

Channel	*1a*			*1b*			*2b*	
Cluster Index	1	2	3	4	5	6	7	8
Cluster Identifier	0	1	2	3	4	5	0	1
Start Pixel	0	5	197	552	842	1019	1024	1029
Length	5	192	355	290	177	5	5	71
Channel	*2b*	*2a*			*3*			
Cluster Index	9	10	11	12	13	14	15	16
Cluster Identifier	2	3	4	5	0	1	2	3
Start Pixel	1100	1878	1972	2043	2048	2058	2081	2978
Length	778	94	71	5	10	23	897	89
Channel	*3*	*4*					*5*	
Cluster Index	17	18	19	20	21	22	23	24
Cluster Identifier	4	0	1	2	3	4	0	1
Start Pixel	3067	3072	3077	3082	3991	4091	4096	4101
Length	5	5	5	909	100	5	5	5
Channel	*5*			*6*				
Cluster Index	25	26	27	28	29	30	31	32
Cluster Identifier	2	3	4	0	1	2	3	4
Start Pixel	4106	5097	5115	5120	5130	5144	6117	6134
Length	991	18	5	10	14	973	17	10
Channel	*7*					*8*		
Cluster Index	33	34	35	36	37	38	39	40
Cluster Identifier	0	1	2	3	4	0	1	2
Start Pixel	6144	6154	6192	7132	7158	7168	7178	8182
Length	10	38	940	26	10	10	1004	10
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	41	42	43	44	45	46	47	48
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	49	50	51	52	53	54	55	56
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	57	58	59	60	61	62	63	64
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1

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Cluster Definitions 2 total number of clusters: 56

Channel	*1a*		*1b*			*2a*		
Cluster Index	1	2	3	4	5	6	7	8
Cluster Identifier	0	1	2	3	4	0	1	2
Start Pixel	0	216	744	768	1019	1024	1119	1215
Length	5	528	24	40	5	5	96	643
Channel	*2b*			*3*				
Cluster Index	9	10	11	12	13	14	15	16
Cluster Identifier	3	4	5	0	1	2	3	4
Start Pixel	1858	1910	2043	2048	2094	2140	2222	2325
Length	52	44	5	5	46	82	103	205
Channel	*3*					*4*		
Cluster Index	17	18	19	20	21	22	23	24
Cluster Identifier	5	6	7	8	9	0	1	2
Start Pixel	2530	2736	2777	2958	3067	3072	3118	3193
Length	206	41	181	66	5	5	75	157
Channel	*4*						*5*	
Cluster Index	25	26	27	28	29	30	31	32
Cluster Identifier	3	4	5	6	7	8	0	1
Start Pixel	3350	3396	3817	3933	3956	4091	4096	4150
Length	46	421	116	23	92	5	5	69
Channel	*5*							*6*
Cluster Index	33	34	35	36	37	38	39	40
Cluster Identifier	2	3	4	5	6	7	8	0
Start Pixel	4219	4410	4443	4857	4891	4926	5115	5120
Length	191	33	414	34	35	138	5	10
Channel	*6*							
Cluster Index	41	42	43	44	45	46	47	48
Cluster Identifier	1	2	3	4	5	6	7	8
Start Pixel	5177	5228	5458	5482	5650	5675	5849	5911
Length	51	230	24	168	25	174	62	124
Channel	*6*		*7*			*8*		
Cluster Index	49	50	51	52	53	54	55	56
Cluster Identifier	9	10	0	1	2	0	1	2
Start Pixel	6035	6134	6144	6217	7158	7168	7241	8182
Length	63	10	10	877	10	10	878	10
Channel								
Cluster Index	57	58	59	60	61	62	63	64
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1

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Cluster Table ID 2

Channel	*1a*	*1b*	2b	*2a*	*3*	*4*	*5*	*6*
Cluster Index	1	2	3	4	5	6	7	8
Cluster Identifier	0	1	0	1	0	0	0	0
Start Pixel	0	552	1024	1878	2048	3072	4096	5120
Length	552	472	854	170	1024	1024	1024	1024
Channel	*7*	*8*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	9	10	11	12	13	14	15	16
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	6144	7168	0	0	0	0	0	0
Length	1024	1024	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	17	18	19	20	21	22	23	24
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	25	26	27	28	29	30	31	32
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	33	34	35	36	37	38	39	40
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	41	42	43	44	45	46	47	48
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	49	50	51	52	53	54	55	56
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	57	58	59	60	61	62	63	64
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1

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Cluster Definitions 3

Channel	*1a*			*1b*				*2b*
Cluster Index	1	2	3	4	5	6	7	8
Cluster Identifier	0	1	2	3	4	5	6	0
Start Pixel	0	5	216	744	768	1009	1019	1024
Length	5	10	528	24	40	10	5	5
Channel	*2b*			*2a*				*3*
Cluster Index	9	10	11	12	13	14	15	16
Cluster Identifier	1	2	3	4	5	6	7	0
Start Pixel	1119	1215	1319	1858	1911	2033	2043	2048
Length	96	104	539	53	43	10	5	5
Channel	*3*							
Cluster Index	17	18	19	20	21	22	23	24
Cluster Identifier	1	2	3	4	5	6	7	8
Start Pixel	2094	2140	2222	2677	2715	2797	2958	3066
Length	46	82	455	38	82	161	66	5
Channel	*4*							
Cluster Index	25	26	27	28	29	30	31	32
Cluster Identifier	1	2	3	4	5	6	7	8
Start Pixel	3072	3118	3193	3609	3817	3933	3956	4091
Length	5	75	416	208	116	23	92	5
Channel	*5*							
Cluster Index	33	34	35	36	37	38	39	40
Cluster Identifier	9	10	0	1	2	3	4	5
Start Pixel	4096	4150	4219	4582	4857	4891	4926	5115
Length	5	69	363	275	34	35	138	5
Channel	*6*							
Cluster Index	41	42	43	44	45	46	47	48
Cluster Identifier	6	7	8	9	10	0	1	2
Start Pixel	5120	5177	5228	5458	5482	5650	5675	5749
Length	10	51	230	24	168	25	74	218
Channel	*6*		*7*			*8*		
Cluster Index	49	50	51	52	53	54	55	56
Cluster Identifier	3	4	5	6	7	8	9	10
Start Pixel	5967	6134	6144	6217	7158	7168	7241	8182
Length	131	10	10	877	10	10	878	10
Channel								
Cluster Index	57	58	59	60	61	62	63	64
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1

Cluster Table ID 3

Channel	*1a*			*1b*			*2b*	
Cluster Index	1	2	3	4	5	6	7	8
Cluster Identifier	0	1	2	3	4	5	0	1
Start Pixel	0	5	197	552	748	1019	1024	1100
Length	5	192	355	196	94	5	5	114
Channel	2b	2a		*3*				
Cluster Index	9	10	11	12	13	14	15	16
Cluster Identifier	2	3	4	0	1	2	3	4
Start Pixel	1214	1878	2043	2048	2081	2131	2211	2647
Length	664	94	5	10	50	80	436	75
Channel	*3*			*4*				
Cluster Index	17	18	19	20	21	22	23	24
Cluster Identifier	5	6	7	8	0	1	2	3
Start Pixel	2722	2809	2944	3067	3072	3082	3118	3150
Length	87	135	34	5	5	36	32	535
Channel	*4*			*5*				
Cluster Index	25	26	27	28	29	30	31	32
Cluster Identifier	4	5	6	7	0	1	2	3
Start Pixel	3685	3819	3925	4091	4096	4106	4152	4180
Length	134	106	66	5	5	46	28	525
Channel	*5*			*6*				
Cluster Index	33	34	35	36	37	38	39	40
Cluster Identifier	4	5	6	0	1	2	3	4
Start Pixel	4705	4863	5115	5120	5144	5227	5455	5481
Length	158	234	5	10	83	228	26	178
Channel	*6*							*7*
Cluster Index	41	42	43	44	45	46	47	48
Cluster Identifier	5	6	7	8	9	10	11	0
Start Pixel	5659	5687	5866	6020	6051	6065	6134	6144
Length	28	179	154	31	14	52	10	10
Channel	*7*					*8*		
Cluster Index	49	50	51	52	53	54	55	56
Cluster Identifier	1	2	3	4	5	0	1	2
Start Pixel	6192	6437	6585	7027	7158	7168	7178	8182
Length	245	148	442	105	10	10	1004	10
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	57	58	59	60	61	62	63	64
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1

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Cluster Definitions 4 total number of clusters: 10

Channel	*1a*	*1b*	*2b*	*2a*	*3*	*4*	*5*	*6*
Cluster Index	1	2	3	4	5	6	7	8
Cluster Identifier	0	1	2	3	4	5	6	7
Start Pixel	0	744	1024	1858	2048	3072	4096	5120
Length	744	280	834	190	1024	1024	1024	1024
Channel	*7*	*8*						
Cluster Index	9	10	11	12	13	14	15	16
Cluster Identifier	8	9	10	0	0	0	0	0
Start Pixel	6144	7168	0	0	0	0	0	0
Length	1024	1024	1	1	1	1	1	1
Channel								
Cluster Index	17	18	19	20	21	22	23	24
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel								
Cluster Index	25	26	27	28	29	30	31	32
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel								
Cluster Index	33	34	35	36	37	38	39	40
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel								
Cluster Index	41	42	43	44	45	46	47	48
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel								
Cluster Index	49	50	51	52	53	54	55	56
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel								
Cluster Index	57	58	59	60	61	62	63	64
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1

Cluster Table ID 4

Channel	*1a*	*1b*	*2b*	*2a*	*3*	*4*	*5*	*6*
Cluster Index	1	2	3	4	5	6	7	8
Cluster Identifier	0	1	0	1	0	0	0	0
Start Pixel	0	552	1024	1878	2048	3072	4096	5120
Length	552	472	854	170	1024	1024	1024	1024
Channel	*7*	*8*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	9	10	11	12	13	14	15	16
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	6144	7168	0	0	0	0	0	0
Length	1024	1024	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	17	18	19	20	21	22	23	24
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	25	26	27	28	29	30	31	32
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	33	34	35	36	37	38	39	40
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	41	42	43	44	45	46	47	48
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	49	50	51	52	53	54	55	56
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1
Channel	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cluster Index	57	58	59	60	61	62	63	64
Cluster Identifier	0	0	0	0	0	0	0	0
Start Pixel	0	0	0	0	0	0	0	0
Length	1	1	1	1	1	1	1	1

6 Timeline and RTCS Tables

As pointed out in chapter 3, the execution of timelines requires access to tables which have to be defined outside the frame of STATE and COMMON Parameter tables. Such tables are the

⇒ RTCS Table

⇒ STATE RTCS INDEX Table

⇒ TIMELINE INDEX Table

⇒ TIMELINE Table

6.1 RTCS Tables

6.1.1 RTCS Table

This table stores 1000 Primitive Command Entries. Only one table of this class exists.

Table Template:

MCMD: SET RTCS (IOM Reference A6.43)

Columns:

Entry ID:	identifier of the corresponding Primitive Command; range = 1-1000
Delta Time:	definition of relative time tag in CT w.r.t. start of previous command, range = 0-32765 (equivalent to 0-127.99 sec)
Command Header:	title of Primitive Command

Note that the following table shows only the general layout for the first 53 entries. The full information about the RTCS-table is given in chapter 8 covering all Engineering Parameter Tables.

Entry ID	Delta Time	Command Header
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
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24		
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26		
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29		
30		
31		
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33		
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36		
37		
38		
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53		

6.1.2 STATE RTCS INDEX Table

This table stores the Start ID of the RTCS associated with each state. Only one table of this class exists.

Table Template:

MCMD: SET STATE RTCS INDEX TABLE (IOM Reference A6.55)

Columns:

Start Index: identifier of the entry number of the first primitive command of the RTCS in the RTCS Table; range = 1-1000;
note that the 70 Start Indices are listed sequentially corresponding to an implicit sequence of state IDs, the latter starting at state ID=1 and ending at state ID=70 (as depicted in the list of states right to the RTCS Index table)

At time of issue no OCR's are affecting the table content of the ICU EEPROM.

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Start Index		RTCS
551	State ID 1	STT_01
551	State ID 2	STT_01
551	State ID 3	STT_01
551	State ID 4	STT_01
551	State ID 5	STT_01
551	State ID 6	STT_01
551	State ID 7	STT_01
551	State ID 8	STT_01
551	State ID 9	STT_01
551	State ID 10	STT_01
551	State ID 11	STT_01
551	State ID 12	STT_01
551	State ID 13	STT_01
551	State ID 14	STT_01
551	State ID 15	STT_01
551	State ID 16	STT_01
551	State ID 17	STT_01
551	State ID 18	STT_01
551	State ID 19	STT_01
551	State ID 20	STT_01
551	State ID 21	STT_01
551	State ID 22	STT_01
551	State ID 23	STT_01
551	State ID 24	STT_01
551	State ID 25	STT_01
551	State ID 26	STT_01
551	State ID 27	STT_01
551	State ID 28	STT_01
551	State ID 29	STT_01
551	State ID 30	STT_01
551	State ID 31	STT_01
551	State ID 32	STT_01
551	State ID 33	STT_01
551	State ID 34	STT_01
551	State ID 35	STT_01

Start Index		RTCS
551	State ID 36	STT_01
551	State ID 37	STT_01
551	State ID 38	STT_01
551	State ID 39	STT_01
551	State ID 40	STT_01
551	State ID 41	STT_01
551	State ID 42	STT_01
551	State ID 43	STT_01
551	State ID 44	STT_01
551	State ID 45	STT_01
601	State ID 46	STT_02
601	State ID 47	STT_02
551	State ID 48	STT_01
601	State ID 49	STT_02
601	State ID 50	STT_02
601	State ID 51	STT_02
951	State ID 52	STT_09
651	State ID 53	STT_03
551	State ID 54	STT_01
551	State ID 55	STT_01
551	State ID 56	STT_01
551	State ID 57	STT_01
651	State ID 58	STT_03
701	State ID 59	STT_04
651	State ID 60	STT_03
901	State ID 61	STT_10
801	State ID 62	STT_06
601	State ID 63	STT_02
601	State ID 64	STT_02
851	State ID 65	STT_07
601	State ID 66	STT_02
601	State ID 67	STT_02
601	State ID 68	STT_02
701	State ID 69	STT_04
751	State ID 70	STT_05

Start Index	State ID	RTCS
551	1	STT_01
551	2	STT_01
551	3	STT_01
551	4	STT_01
551	5	STT_01
551	6	STT_01
551	7	STT_01
551	8	STT_01
551	9	STT_01
551	10	STT_01
551	11	STT_01
551	12	STT_01
551	13	STT_01
551	14	STT_01
551	15	STT_01
751	16	STT_05
951	17	STT_09
951	18	STT_09
951	19	STT_09
951	20	STT_09
951	21	STT_09
951	22	STT_09
551	23	STT_01
551	24	STT_01
551	25	STT_01
551	26	STT_01
551	27	STT_01
551	28	STT_01
551	29	STT_01
551	30	STT_01
551	31	STT_01
551	32	STT_01
551	33	STT_01
551	34	STT_01
551	35	STT_01

Start Index	State ID	RTCS
551	36	STT_01
551	37	STT_01
551	38	STT_01
951	39	STT_09
551	40	STT_01
551	41	STT_01
551	42	STT_01
551	43	STT_01
551	44	STT_01
551	45	STT_01
551	46	STT_01
601	47	STT_02
901	48	STT_10
601	49	STT_02
601	50	STT_02
601	51	STT_02
951	52	STT_09
651	53	STT_03
551	54	STT_01
551	55	STT_01
551	56	STT_01
551	57	STT_01
651	58	STT_03
701	59	STT_04
651	60	STT_03
901	61	STT_10
801	62	STT_06
551	63	STT_01
601	64	STT_02
851	65	STT_07
601	66	STT_02
551	67	STT_01
601	68	STT_02
701	69	STT_04
751	70	STT_05

6.2 Timeline Tables

6.2.1 TIMELINE INDEX Table

This table stores the identifiers of the start entry in the TIMELINE Table for the 63 instrument_timelines. Only one table of this class exists.

Table Template:

MCMD: SET TIMELINE INDEX TABLE (IOM Reference A6.58)

Columns:

Timeline ID:	identifier of the onboard instrument_timelines; range = 1-63
Start ID Timeline:	identifier of the Entry ID of the first state of an instrument_timeline in the TIMELINE Table; range = 1-4096; for instrument_timelines not loaded in the ICU, the start index ”0” must be used - see IOM for more details

The following table shows the definition as it was agreed between all parties to construct a firm template for all timelines. By using this fixed layout the flexibility of the MCMD is intentionally truncated.

Note: the content of this table is fixed and it is not planned to introduce any changes into this table.

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Timeline Counter	START INDEX HEX	START INDEX DEC
1	00000001	1
2	00000041	65
3	00000081	129
4	000000C1	193
5	00000101	257
6	00000141	321
7	00000181	385
8	000001C1	449
9	00000201	513
10	00000241	577
11	00000281	641
12	000002C1	705
13	00000301	769
14	00000341	833
15	00000381	897
16	000003C1	961
17	00000401	1025
18	00000441	1089
19	00000481	1153
20	000004C1	1217
21	00000501	1281
22	00000541	1345
23	00000581	1409
24	000005C1	1473
25	00000601	1537
26	00000641	1601
27	00000681	1665
28	000006C1	1729
29	00000701	1793
30	00000741	1857
31	00000781	1921
32	000007C1	1985
33	00000801	2049
34	00000841	2113
35	00000881	2177
36	000008C1	2241
37	00000901	2305
38	00000941	2369
39	00000981	2433
40	000009C1	2497
41	00000A01	2561
42	00000A41	2625
43	00000A81	2689
44	00000AC1	2753
45	00000B01	2817
46	00000B41	2881
47	00000B81	2945
48	00000BC1	3009
49	00000C01	3073
50	00000C41	3137
51	00000C81	3201
52	00000CC1	3265
53	00000D01	3329
54	00000D41	3393
55	00000D81	3457
56	00000DC1	3521
57	00000E01	3585
58	00000E41	3649
59	00000E81	3713
60	00000EC1	3777
61	00000F01	3841
62	00000F41	3905
63	00000F81	3969

6.2.2 TIMELINE Table

This table stores the state sequences for the 63 onboard instrument_timelines. The table has 4096 entries. Only one table of this class exists.

Table Template:

MCMD: SET TIMELINE (IOM Reference A6.57)

Columns:

Entry ID:	position identifier of a particular state in the TIMELINE table; range = 1-4096
Time Tag:	definition of the start time of a particular state relative to the time tag of the preceding state in CT (for the first state in an instrument_timeline this parameter refers to the time tag of the *START TIMELINE* MCMD), range = 0-16777215 (equivalent to 0-65535.996 sec)
State ID:	identifier of a particular state in an instrument_timeline, range = 1-70

Note that the following table shows only the general layout (template) for the first 53 entries. RD 3 gives the full definition of all timelines contained in the TL-store. Furthermore RD3 will specify in the final issue also the contents (distinguished by a ‘set’-nr.) of the TL-store for the different scenarios.

Entry ID	Time Tag	State ID
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
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52		
53		

7 Open Issues w.r.t. State Parameter Tables

The instrument states as presented here are based on the current knowledge about SCIAMACHY performance and operations after the definition of the first set of 'Final-Flight'-state parameter tables.

A source for potential state modifications is the behaviour and aging of instrument components with proceeding instrument lifetime and ongoing measurement activities in space. Results of instrumnet monitoring activities might require to tune certain parameters to the actual instrument status.

8 Engineering Parameter Tables

This chapter describes all remaining SCIAMACHY instrument onboard tables. All of these tables have the purpose to maintain the correct technical functions of the subsystems of SCIAMACHY and of the overall instrument.

The individual engineering tables permit the parameterised setting of different tasks like:

- Monitoring
- Timing and Commanding
- Initialising of Corrective Actions
- Setting of Engineering Parameters for Subsystems and Mechanisms

The engineering tables are considered as a fairly stable part of the onboard EEPROM. When in the following the tables are reproduced the EEPROM parameter version is given and the current RAM table version is not presented with all parameters but only with the altered ones on the appropriate pages. The reason for this diverting approach is, that with engineering parameter tables just a small, very limited number of modifications has occurred since the last burning of the EEPROM. Furthermore it is planned to load these modifications via fixed commands and not via the table interface - CTI. This means the related fixed commands are part of a distinct procedure (see RD1).

8.1 Monitoring Tables

The Engineering tables related hereto are all organised according to the ID-number of the parameter defined. When an ID is cited in any of these tables the identical parameter is designated by this ID.
The following 3 tables are all related to only one Excel source file and can be derived therefrom:
1. Monitoring Table
2. Enable Monitoring Table
3. Inhibit Monitoring Table

In the following these 3 tables are described based on the template of the common Excel source and the common Excel source is depicted.

8.1.1 Monitoring Table

This table holds the status or limits against which a parameter defined by its ID is checked. The table is limited to 255 parameters. Only one table of this class exists.

Table Template:

MCMD: SET MONITORING (IOM Reference A6.40)

Header Line:

Checking State: identification of a distinct checking state for the application of the monitoring limits

Columns:

Parameter ID:	identifies a particular instrument parameter against which status or limits are checked; range = 1...255 (column 1 - DEC; column 3 – HEX)
Enabled/Disabled:	not used for Monitoring Table
Type & m-Length:	combines 2 parameters:

Type:	'0' defines a set of expected states against which a digital parameter is monitored; '1' defines a value range for the monitoring of analog/digital parameters;
m-Length:	defines the number of word of the microcommand (value = 4);
Filter: (type	defines the number of tolerated status deviations (type 0) or limit violations 1), before a history entry is generated;
Checking State: (see	Identifier of the checking state for the application of the monitoring limits header line)
High Limit or State 1:	with 'type 0' this parameter defines state 1 permitted with 'type 1' this parameter defines the maximum value permitted
Low Limit or State 2:	with 'type 0' this parameter defines state 2 permitted with 'type 1' this parameter defines the minimum value permitted

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

DCR/OCR	Issue date	issued by	Title
DR-SCIA-0100DO/97	03.09.97	DSS	Increased Filter Value in checking state IDLE for Parameter 94 & 100
DR-SCIA-0112DO/97	12.11.97	DSS	Monitoring Limit in checking state STATE for Parameter 94
DR-SCIA-0010DO/98	08.04.98	DSS	Modification of Calibration Curves for on-board Monitoring for Parameters 106, 107, 112
e-mail H.Kröger & T.Niessen	12.06.2002	Astrium; H.Kröger	Correct I0137 & I0138 SRC Cold stage & Parabolic Reflector Temperature
e-mail T.Niessen	04.11.2002	Astrium; T.Niessen	Correct I0138 SRC Parabolic Reflector Temperature
e-mail P. Luetzow	30.09.2002	Astrium; P. Luetzow	correct I0270 Mechanisms Status O/B Monitoring Limits to allow 71 decimal

8.1.2 Enable Monitoring Table

This table holds the parameters defined by its ID, which are individually enabled for monitoring. The table is limited to 255 parameters. Only one table of this class exists.

Table Template:

MCMD: ENABLE MONITORING (IOM Reference A6.7)

Header Line:

Checking State: identification of a distinct checking state for the application of the monitoring limits

Columns:

Parameter ID:	identifies a particular instrument; range = 1...255 (column 1 - DEC; column 3 – HEX)
Enabled/Disabled:	parameters marked '***enabled***' are identified for monitoring

Type & m-Length: not used for Enable Monitoring Table
Filter: not used for Enable Monitoring Table
Checking State: Identifier of the checking state for which the monitoring applies (see header line)
High Limit or State 1: not used for Enable Monitoring Table
Low Limit or State 2: not used for Enable Monitoring Table

NOTE: MCMD 'Enable Monitoring' may also be used to globally enable monitoring, which does not alter the setting of the individual parameter.

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

CDR/OCR	Issue date	issued by	Title
none			

8.1.3 Inhibit Monitoring Table

This table holds the parameters defined by its ID, which are individually inhibited for monitoring. The table is limited to 255 parameters. Only one table of this class exists.

Table Template:

MCMD: INHIBIT MONITORING (IOM Reference A6.7)

Header Line:

Checking State: identification of a distinct checking state for the application of the monitoring limits is inhibited

Columns:

Parameter ID: identifies a particular instrument;
range = 1...255 (column 1 - DEC; column 3 – HEX)
Enabled/Disabled: parameters marked '***disabled***' are specified for monitoring
Type & m-Length: not used for Inhibit Monitoring Table
Filter: not used for Inhibit Monitoring Table
Checking State: Identifier of the checking state for which the monitoring is inhibited (see header line)
High Limit or State 1: not used for Inhibit Monitoring Table
Low Limit or State 2: not used for Inhibit Monitoring Table

NOTE: MCMD 'Inhibit Monitoring' may also be used to globally inhibit monitoring, which does not alter the setting of the individual parameter.

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

DCR/OCR	Issue date	issued by	Title
DR_SCIA_0009DO/99	08.12.99	DSS	Inhibit Monitoring for SDPU HK timeout due to SDPU dumps (I0201 = Fault ID 161)

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MONITORING Checking State — Table 1.1 — Standby

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	01	01	0000	FFFF	Expected states	1	0	65535
2	disabled	02	44	01	01	0000	FFFF	high/low limit	1	0	65535
3	disabled	03	44	01	01	0000	FFFF	high/low limit	1	0	65535
4	disabled	04	44	01	01	0000	FFFF	high/low limit	1	0	65535
5	disabled	05	44	01	01	0000	FFFF	high/low limit	1	0	65535
6	disabled	06	44	01	01	0000	FFFF	high/low limit	1	0	65535
7	disabled	07	44	01	01	0000	FFFF	high/low limit	1	0	65535
8	disabled	08	44	01	01	0000	FFFF	high/low limit	1	0	65535
9	disabled	09	44	01	01	0000	FFFF	high/low limit	1	0	65535
10	disabled	0A	44	01	01	0000	FFFF	high/low limit	1	0	65535
11	disabled	0B	44	01	01	0000	FFFF	high/low limit	1	0	65535
12	disabled	0C	44	01	01	0000	FFFF	high/low limit	1	0	65535
13	disabled	0D	44	01	01	0000	FFFF	high/low limit	1	0	65535
14	disabled	0E	44	01	01	0000	FFFF	high/low limit	1	0	65535
15	disabled	0F	44	01	01	0000	FFFF	high/low limit	1	0	65535
16	disabled	10	44	01	01	0000	FFFF	high/low limit	1	0	65535
17	disabled	11	44	01	01	0000	FFFF	high/low limit	1	0	65535
18	disabled	12	44	01	01	0000	FFFF	high/low limit	1	0	65535
19	disabled	13	44	01	01	0000	FFFF	high/low limit	1	0	65535
20	disabled	14	44	01	01	0000	FFFF	high/low limit	1	0	65535
21	disabled	15	44	01	01	0000	FFFF	high/low limit	1	0	65535
22	disabled	16	44	01	01	0000	FFFF	high/low limit	1	0	65535
23	disabled	17	44	01	01	0000	FFFF	high/low limit	1	0	65535
24	disabled	18	44	01	01	0000	FFFF	high/low limit	1	0	65535
25	disabled	19	44	01	01	0000	FFFF	high/low limit	1	0	65535
26	disabled	1A	44	01	01	0000	FFFF	high/low limit	1	0	65535
27	disabled	1B	44	01	01	0000	FFFF	high/low limit	1	0	65535
28	disabled	1C	44	01	01	0000	FFFF	high/low limit	1	0	65535
29	disabled	1D	44	01	01	0000	FFFF	high/low limit	1	0	65535
30	disabled	1E	44	01	01	0000	FFFF	high/low limit	1	0	65535
31	disabled	1F	44	01	01	0000	FFFF	high/low limit	1	0	65535
32	disabled	20	44	01	01	0000	FFFF	high/low limit	1	0	65535
33	disabled	21	44	01	01	0000	FFFF	high/low limit	1	0	65535
34	disabled	22	44	01	01	0000	FFFF	high/low limit	1	0	65535
35	disabled	23	44	01	01	0000	FFFF	high/low limit	1	0	65535
36	disabled	24	44	01	01	0000	FFFF	high/low limit	1	0	65535
37	disabled	25	44	01	01	0000	FFFF	high/low limit	1	0	65535
38	disabled	26	44	01	01	0000	FFFF	high/low limit	1	0	65535
39	disabled	27	44	01	01	0000	FFFF	high/low limit	1	0	65535
40	disabled	28	44	01	01	0000	FFFF	high/low limit	1	0	65535
41	disabled	29	44	01	01	0000	FFFF	high/low limit	1	0	65535
42	disabled	2A	44	01	01	0000	FFFF	high/low limit	1	0	65535
43	disabled	2B	44	01	01	0000	FFFF	high/low limit	1	0	65535
44	disabled	2C	44	01	01	0000	FFFF	high/low limit	1	0	65535
45	disabled	2D	44	01	01	0000	FFFF	high/low limit	1	0	65535
46	disabled	2E	44	01	01	0000	FFFF	high/low limit	1	0	65535
47	disabled	2F	04	01	01	0000	FFFF	Expected states	1	0	65535
48	disabled	30	04	01	01	0000	FFFF	Expected states	1	0	65535
49	disabled	31	04	01	01	0000	FFFF	Expected states	1	0	65535
50	disabled	32	04	01	01	0000	FFFF	Expected states	1	0	65535

MONITORING Checking State — Table 2.1 — Decontamination

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	01	02	0000	FFFF	Expected states	1	0	65535
2	disabled	02	44	01	02	0000	FFFF	high/low limit	1	0	65535
3	disabled	03	44	01	02	0000	FFFF	high/low limit	1	0	65535
4	disabled	04	44	01	02	0000	FFFF	high/low limit	1	0	65535
5	disabled	05	44	01	02	0000	FFFF	high/low limit	1	0	65535
6	disabled	06	44	01	02	0000	FFFF	high/low limit	1	0	65535
7	disabled	07	44	01	02	0000	FFFF	high/low limit	1	0	65535
8	disabled	08	44	01	02	0000	FFFF	high/low limit	1	0	65535
9	disabled	09	44	01	02	0000	FFFF	high/low limit	1	0	65535
10	disabled	0A	44	01	02	0000	FFFF	high/low limit	1	0	65535
11	disabled	0B	44	01	02	0000	FFFF	high/low limit	1	0	65535
12	disabled	0C	44	01	02	0000	FFFF	high/low limit	1	0	65535
13	disabled	0D	44	01	02	0000	FFFF	high/low limit	1	0	65535
14	disabled	0E	44	01	02	0000	FFFF	high/low limit	1	0	65535
15	disabled	0F	44	01	02	0000	FFFF	high/low limit	1	0	65535
16	disabled	10	44	01	02	0000	FFFF	high/low limit	1	0	65535
17	disabled	11	44	01	02	0000	FFFF	high/low limit	1	0	65535
18	disabled	12	44	01	02	0000	FFFF	high/low limit	1	0	65535
19	disabled	13	44	01	02	0000	FFFF	high/low limit	1	0	65535
20	disabled	14	44	01	02	0000	FFFF	high/low limit	1	0	65535
21	disabled	15	44	01	02	0000	FFFF	high/low limit	1	0	65535
22	disabled	16	44	01	02	0000	FFFF	high/low limit	1	0	65535
23	disabled	17	44	01	02	0000	FFFF	high/low limit	1	0	65535
24	disabled	18	44	01	02	0000	FFFF	high/low limit	1	0	65535
25	disabled	19	44	01	02	0000	FFFF	high/low limit	1	0	65535
26	disabled	1A	44	01	02	0000	FFFF	high/low limit	1	0	65535
27	disabled	1B	44	01	02	0000	FFFF	high/low limit	1	0	65535
28	disabled	1C	44	01	02	0000	FFFF	high/low limit	1	0	65535
29	disabled	1D	44	01	02	0000	FFFF	high/low limit	1	0	65535
30	disabled	1E	44	01	02	0000	FFFF	high/low limit	1	0	65535
31	disabled	1F	44	01	02	0000	FFFF	high/low limit	1	0	65535
32	disabled	20	44	01	02	0000	FFFF	high/low limit	1	0	65535
33	disabled	21	44	01	02	0000	FFFF	high/low limit	1	0	65535
34	disabled	22	44	01	02	0000	FFFF	high/low limit	1	0	65535
35	disabled	23	44	01	02	0000	FFFF	high/low limit	1	0	65535
36	disabled	24	44	01	02	0000	FFFF	high/low limit	1	0	65535
37	disabled	25	44	01	02	0000	FFFF	high/low limit	1	0	65535
38	disabled	26	44	01	02	0000	FFFF	high/low limit	1	0	65535
39	disabled	27	44	01	02	0000	FFFF	high/low limit	1	0	65535
40	disabled	28	44	01	02	0000	FFFF	high/low limit	1	0	65535
41	disabled	29	44	01	02	0000	FFFF	high/low limit	1	0	65535
42	disabled	2A	44	01	02	0000	FFFF	high/low limit	1	0	65535
43	disabled	2B	44	01	02	0000	FFFF	high/low limit	1	0	65535
44	disabled	2C	44	01	02	0000	FFFF	high/low limit	1	0	65535
45	disabled	2D	44	01	02	0000	FFFF	high/low limit	1	0	65535
46	disabled	2E	44	01	02	0000	FFFF	high/low limit	1	0	65535
47	disabled	2F	04	01	02	0000	FFFF	Expected states	1	0	65535
48	disabled	30	04	01	02	0000	FFFF	Expected states	1	0	65535
49	disabled	31	04	01	02	0000	FFFF	Expected states	1	0	65535
50	disabled	32	04	01	02	0000	FFFF	Expected states	1	0	65535

MONITORING Checking State — Table 3.1 — Standby_Refuse_I

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	01	03	0000	FFFF	Expected states	1	0	65535
2	disabled	02	44	01	03	0000	FFFF	high/low limit	1	0	65535
3	disabled	03	44	01	03	0000	FFFF	high/low limit	1	0	65535
4	disabled	04	44	01	03	0000	FFFF	high/low limit	1	0	65535
5	disabled	05	44	01	03	0000	FFFF	high/low limit	1	0	65535
6	disabled	06	44	01	03	0000	FFFF	high/low limit	1	0	65535
7	disabled	07	44	01	03	0000	FFFF	high/low limit	1	0	65535
8	disabled	08	44	01	03	0000	FFFF	high/low limit	1	0	65535
9	disabled	09	44	01	03	0000	FFFF	high/low limit	1	0	65535
10	disabled	0A	44	01	03	0000	FFFF	high/low limit	1	0	65535
11	disabled	0B	44	01	03	0000	FFFF	high/low limit	1	0	65535
12	disabled	0C	44	01	03	0000	FFFF	high/low limit	1	0	65535
13	disabled	0D	44	01	03	0000	FFFF	high/low limit	1	0	65535
14	disabled	0E	44	01	03	0000	FFFF	high/low limit	1	0	65535
15	disabled	0F	44	01	03	0000	FFFF	high/low limit	1	0	65535
16	disabled	10	44	01	03	0000	FFFF	high/low limit	1	0	65535
17	disabled	11	44	01	03	0000	FFFF	high/low limit	1	0	65535
18	disabled	12	44	01	03	0000	FFFF	high/low limit	1	0	65535
19	disabled	13	44	01	03	0000	FFFF	high/low limit	1	0	65535
20	disabled	14	44	01	03	0000	FFFF	high/low limit	1	0	65535
21	disabled	15	44	01	03	0000	FFFF	high/low limit	1	0	65535
22	disabled	16	44	01	03	0000	FFFF	high/low limit	1	0	65535
23	disabled	17	44	01	03	0000	FFFF	high/low limit	1	0	65535
24	disabled	18	44	01	03	0000	FFFF	high/low limit	1	0	65535
25	disabled	19	44	01	03	0000	FFFF	high/low limit	1	0	65535
26	disabled	1A	44	01	03	0000	FFFF	high/low limit	1	0	65535
27	disabled	1B	44	01	03	0000	FFFF	high/low limit	1	0	65535
28	disabled	1C	44	01	03	0000	FFFF	high/low limit	1	0	65535
29	disabled	1D	44	01	03	0000	FFFF	high/low limit	1	0	65535
30	disabled	1E	44	01	03	0000	FFFF	high/low limit	1	0	65535
31	disabled	1F	44	01	03	0000	FFFF	high/low limit	1	0	65535
32	disabled	20	44	01	03	0000	FFFF	high/low limit	1	0	65535
33	disabled	21	44	01	03	0000	FFFF	high/low limit	1	0	65535
34	disabled	22	44	01	03	0000	FFFF	high/low limit	1	0	65535
35	disabled	23	44	01	03	0000	FFFF	high/low limit	1	0	65535
36	disabled	24	44	01	03	0000	FFFF	high/low limit	1	0	65535
37	disabled	25	44	01	03	0000	FFFF	high/low limit	1	0	65535
38	disabled	26	44	01	03	0000	FFFF	high/low limit	1	0	65535
39	disabled	27	44	01	03	0000	FFFF	high/low limit	1	0	65535
40	disabled	28	44	01	03	0000	FFFF	high/low limit	1	0	65535
41	disabled	29	44	01	03	0000	FFFF	high/low limit	1	0	65535
42	disabled	2A	44	01	03	0000	FFFF	high/low limit	1	0	65535
43	disabled	2B	44	01	03	0000	FFFF	high/low limit	1	0	65535
44	disabled	2C	44	01	03	0000	FFFF	high/low limit	1	0	65535
45	disabled	2D	44	01	03	0000	FFFF	high/low limit	1	0	65535
46	disabled	2E	44	01	03	0000	FFFF	high/low limit	1	0	65535
47	disabled	2F	04	01	03	0000	FFFF	Expected states	1	0	65535
48	disabled	30	04	01	03	0000	FFFF	Expected states	1	0	65535
49	disabled	31	04	01	03	0000	FFFF	Expected states	1	0	65535
50	disabled	32	04	01	03	0000	FFFF	Expected states	1	0	65535

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MONITORING Table 4.1

	Parameter ID DEC	Checking State ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Standby_Refuse_E Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	0000	FFFF	Expected states	1	0	65535			
2	disabled	02	04	0000	FFFF	high/low limit	1	0	65535			
3	disabled	03	04	0000	FFFF	high/low limit	1	0	65535			
4	disabled	04	04	0000	FFFF	high/low limit	1	0	65535			
5	disabled	05	04	0000	FFFF	high/low limit	1	0	65535			
6	disabled	06	04	0000	FFFF	high/low limit	1	0	65535			
7	disabled	07	04	0000	FFFF	high/low limit	1	0	65535			
8	disabled	08	04	0000	FFFF	high/low limit	1	0	65535			
9	disabled	09	04	0000	FFFF	high/low limit	1	0	65535			
10	disabled	0A	04	0000	FFFF	high/low limit	1	0	65535			
11	disabled	0B	04	0000	FFFF	high/low limit	1	0	65535			
12	disabled	0C	04	0000	FFFF	high/low limit	1	0	65535			
13	disabled	0D	04	0000	FFFF	high/low limit	1	0	65535			
14	disabled	0E	04	0000	FFFF	high/low limit	1	0	65535			
15	disabled	0F	04	0000	FFFF	high/low limit	1	0	65535			
16	disabled	10	04	0000	FFFF	high/low limit	1	0	65535			
17	disabled	11	04	0000	FFFF	high/low limit	1	0	65535			
18	disabled	12	04	0000	FFFF	high/low limit	1	0	65535			
19	disabled	13	04	0000	FFFF	high/low limit	1	0	65535			
20	disabled	14	04	0000	FFFF	high/low limit	1	0	65535			
21	disabled	15	04	0000	FFFF	high/low limit	1	0	65535			
22	disabled	16	04	0000	FFFF	high/low limit	1	0	65535			
23	disabled	17	04	0000	FFFF	high/low limit	1	0	65535			
24	disabled	18	04	0000	FFFF	high/low limit	1	0	65535			
25	disabled	19	04	0000	FFFF	high/low limit	1	0	65535			
26	disabled	1A	04	0000	FFFF	high/low limit	1	0	65535			
27	disabled	1B	04	0000	FFFF	high/low limit	1	0	65535			
28	disabled	1C	04	0000	FFFF	high/low limit	1	0	65535			
29	disabled	1D	04	0000	FFFF	high/low limit	1	0	65535			
30	disabled	1E	04	0000	FFFF	high/low limit	1	0	65535			
31	disabled	1F	04	0000	FFFF	high/low limit	1	0	65535			
32	disabled	20	04	0000	FFFF	high/low limit	1	0	65535			
33	disabled	21	04	0000	FFFF	high/low limit	1	0	65535			
34	disabled	22	04	0000	FFFF	high/low limit	1	0	65535			
35	disabled	23	04	0000	FFFF	high/low limit	1	0	65535			
36	disabled	24	04	0000	FFFF	high/low limit	1	0	65535			
37	disabled	25	04	0000	FFFF	high/low limit	1	0	65535			
38	disabled	26	04	0000	FFFF	high/low limit	1	0	65535			
39	disabled	27	04	0000	FFFF	high/low limit	1	0	65535			
40	disabled	28	04	0000	FFFF	high/low limit	1	0	65535			
41	disabled	29	04	0000	FFFF	high/low limit	1	0	65535			
42	disabled	2A	04	0000	FFFF	high/low limit	1	0	65535			
43	disabled	2B	04	0000	FFFF	high/low limit	1	0	65535			
44	disabled	2C	04	0000	FFFF	high/low limit	1	0	65535			
45	disabled	2D	04	0000	FFFF	high/low limit	1	0	65535			
46	disabled	2E	04	0000	FFFF	high/low limit	1	0	65535			
47	disabled	2F	04	0000	FFFF	Expected states	1	0	65535			
48	disabled	30	04	0000	FFFF	Expected states	1	0	65535			
49	disabled	31	04	0000	FFFF	Expected states	1	0	65535			
50	disabled	32	04	0000	FFFF	Expected states	1	0	65535			

MONITORING Table 5.1

	Parameter ID DEC	Checking State ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Heater_Refuse Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	0000	FFFF	Expected states	1	0	65535			
2	disabled	02	44	0000	FFFF	high/low limit	1	0	65535			
3	disabled	03	44	0000	FFFF	high/low limit	1	0	65535			
4	disabled	04	44	0000	FFFF	high/low limit	1	0	65535			
5	disabled	05	44	0000	FFFF	high/low limit	1	0	65535			
6	disabled	06	44	0000	FFFF	high/low limit	1	0	65535			
7	disabled	07	44	0000	FFFF	high/low limit	1	0	65535			
8	disabled	08	44	0000	FFFF	high/low limit	1	0	65535			
9	disabled	09	44	0000	FFFF	high/low limit	1	0	65535			
10	disabled	0A	44	0000	FFFF	high/low limit	1	0	65535			
11	disabled	0B	44	0000	FFFF	high/low limit	1	0	65535			
12	disabled	0C	44	0000	FFFF	high/low limit	1	0	65535			
13	disabled	0D	44	0000	FFFF	high/low limit	1	0	65535			
14	disabled	0E	44	0000	FFFF	high/low limit	1	0	65535			
15	disabled	0F	44	0000	FFFF	high/low limit	1	0	65535			
16	disabled	10	44	0000	FFFF	high/low limit	1	0	65535			
17	disabled	11	44	0000	FFFF	high/low limit	1	0	65535			
18	disabled	12	44	0000	FFFF	high/low limit	1	0	65535			
19	disabled	13	44	0000	FFFF	high/low limit	1	0	65535			
20	disabled	14	44	0000	FFFF	high/low limit	1	0	65535			
21	disabled	15	44	0000	FFFF	high/low limit	1	0	65535			
22	disabled	16	44	0000	FFFF	high/low limit	1	0	65535			
23	disabled	17	44	0000	FFFF	high/low limit	1	0	65535			
24	disabled	18	44	0000	FFFF	high/low limit	1	0	65535			
25	disabled	19	44	0000	FFFF	high/low limit	1	0	65535			
26	disabled	1A	44	0000	FFFF	high/low limit	1	0	65535			
27	disabled	1B	44	0000	FFFF	high/low limit	1	0	65535			
28	disabled	1C	44	0000	FFFF	high/low limit	1	0	65535			
29	disabled	1D	44	0000	FFFF	high/low limit	1	0	65535			
30	disabled	1E	44	0000	FFFF	high/low limit	1	0	65535			
31	disabled	1F	44	0000	FFFF	high/low limit	1	0	65535			
32	disabled	20	44	0000	FFFF	high/low limit	1	0	65535			
33	disabled	21	44	0000	FFFF	high/low limit	1	0	65535			
34	disabled	22	44	0000	FFFF	high/low limit	1	0	65535			
35	disabled	23	44	0000	FFFF	high/low limit	1	0	65535			
36	disabled	24	44	0000	FFFF	high/low limit	1	0	65535			
37	disabled	25	44	0000	FFFF	high/low limit	1	0	65535			
38	disabled	26	44	0000	FFFF	high/low limit	1	0	65535			
39	disabled	27	44	0000	FFFF	high/low limit	1	0	65535			
40	disabled	28	44	0000	FFFF	high/low limit	1	0	65535			
41	disabled	29	44	0000	FFFF	high/low limit	1	0	65535			
42	disabled	2A	44	0000	FFFF	high/low limit	1	0	65535			
43	disabled	2B	44	0000	FFFF	high/low limit	1	0	65535			
44	disabled	2C	44	0000	FFFF	high/low limit	1	0	65535			
45	disabled	2D	44	0000	FFFF	high/low limit	1	0	65535			
46	enabled	2E	44	0000	FFFF	high/low limit	1	1	1			
47	enabled	2F	04	0000	FFFF	Expected states	0	0	0			
48	enabled	30	04	0000	FFFF	Expected states	1	0	65535			
49	enabled	31	04	0000	FFFF	Expected states	1	0	65535			
50	enabled	32	04	0000	FFFF	Expected states	1	0	65535			

MONITORING Table 6.1

	Parameter ID DEC	Checking State ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Trans Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	0000	FFFF	Expected states	1	0	65535			
2	disabled	02	44	0000	FFFF	high/low limit	1	0	65535			
3	disabled	03	44	0000	FFFF	high/low limit	1	0	65535			
4	disabled	04	44	0000	FFFF	high/low limit	1	0	65535			
5	disabled	05	44	0000	FFFF	high/low limit	1	0	65535			
6	disabled	06	44	0000	FFFF	high/low limit	1	0	65535			
7	disabled	07	44	0000	FFFF	high/low limit	1	0	65535			
8	disabled	08	44	0000	FFFF	high/low limit	1	0	65535			
9	disabled	09	44	0000	FFFF	high/low limit	1	0	65535			
10	disabled	0A	44	0000	FFFF	high/low limit	1	0	65535			
11	disabled	0B	44	0000	FFFF	high/low limit	1	0	65535			
12	disabled	0C	44	0000	FFFF	high/low limit	1	0	65535			
13	disabled	0D	44	0000	FFFF	high/low limit	1	0	65535			
14	disabled	0E	44	0000	FFFF	high/low limit	1	0	65535			
15	disabled	0F	44	0000	FFFF	high/low limit	1	0	65535			
16	disabled	10	44	0000	FFFF	high/low limit	1	0	65535			
17	disabled	11	44	0000	FFFF	high/low limit	1	0	65535			
18	disabled	12	44	0000	FFFF	high/low limit	1	0	65535			
19	disabled	13	44	0000	FFFF	high/low limit	1	0	65535			
20	disabled	14	44	0000	FFFF	high/low limit	1	0	65535			
21	disabled	15	44	0000	FFFF	high/low limit	1	0	65535			
22	disabled	16	44	0000	FFFF	high/low limit	1	0	65535			
23	disabled	17	44	0000	FFFF	high/low limit	1	0	65535			
24	disabled	18	44	0000	FFFF	high/low limit	1	0	65535			
25	disabled	19	44	0000	FFFF	high/low limit	1	0	65535			
26	disabled	1A	44	0000	FFFF	high/low limit	1	0	65535			
27	disabled	1B	44	0000	FFFF	high/low limit	1	0	65535			
28	disabled	1C	44	0000	FFFF	high/low limit	1	0	65535			
29	disabled	1D	44	0000	FFFF	high/low limit	1	0	65535			
30	disabled	1E	44	0000	FFFF	high/low limit	1	0	65535			
31	disabled	1F	44	0000	FFFF	high/low limit	1	0	65535			
32	disabled	20	44	0000	FFFF	high/low limit	1	0	65535			
33	disabled	21	44	0000	FFFF	high/low limit	1	0	65535			
34	disabled	22	44	0000	FFFF	high/low limit	1	0	65535			
35	disabled	23	44	0000	FFFF	high/low limit	1	0	65535			
36	disabled	24	44	0000	FFFF	high/low limit	1	0	65535			
37	disabled	25	44	0000	FFFF	high/low limit	1	0	65535			
38	disabled	26	44	0000	FFFF	high/low limit	1	0	65535			
39	disabled	27	44	0000	FFFF	high/low limit	1	0	65535			
40	disabled	28	44	0000	FFFF	high/low limit	1	0	65535			
41	disabled	29	44	0000	FFFF	high/low limit	1	0	65535			
42	disabled	2A	44	0000	FFFF	high/low limit	1	0	65535			
43	disabled	2B	44	0000	FFFF	high/low limit	1	0	65535			
44	disabled	2C	44	0000	FFFF	high/low limit	1	0	65535			
45	disabled	2D	44	0000	FFFF	high/low limit	1	0	65535			
46	enabled	2E	44	0000	0007	high/low limit	0	7	3			
47	enabled	2F	04	0000	0000	Expected states	0	0	0			
48	enabled	30	04	0000	0001	Expected states	0	1	1			
49	enabled	31	04	0000	0001	Expected states	0	1	1			
50	enabled	32	04	0000	0000	Expected states	0	0	0			

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MONITORING Table 7.1

	Parameter ID DEC	Checking State ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	HTR_WT0 Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	01	07	0000	FFFF	highHow limit	1	0	65535	
2	disabled	02	44	01	07	0000	FFFF	highHow limit	1	0	65535	
3	disabled	03	44	01	07	0000	FFFF	highHow limit	1	0	65535	
4	disabled	04	44	01	07	0000	FFFF	highHow limit	1	0	65535	
5	disabled	05	44	01	07	0000	FFFF	highHow limit	1	0	65535	
6	disabled	06	44	01	07	0000	FFFF	highHow limit	1	0	65535	
7	disabled	07	44	01	07	0000	FFFF	highHow limit	1	0	65535	
8	disabled	08	44	01	07	0000	FFFF	highHow limit	1	0	65535	
9	disabled	09	44	01	07	0000	FFFF	highHow limit	1	0	65535	
10	disabled	0A	44	01	07	0000	FFFF	highHow limit	1	0	65535	
11	disabled	0B	44	01	07	0000	FFFF	highHow limit	1	0	65535	
12	disabled	0C	44	01	07	0000	FFFF	highHow limit	1	0	65535	
13	disabled	0D	44	01	07	0000	FFFF	highHow limit	1	0	65535	
14	disabled	0E	44	01	07	0000	FFFF	highHow limit	1	0	65535	
15	disabled	0F	44	01	07	0000	FFFF	highHow limit	1	0	65535	
16	disabled	10	44	01	07	0000	FFFF	highHow limit	1	0	65535	
17	disabled	11	44	01	07	0000	FFFF	highHow limit	1	0	65535	
18	disabled	12	44	01	07	0000	FFFF	highHow limit	1	0	65535	
19	disabled	13	44	01	07	0000	FFFF	highHow limit	1	0	65535	
20	disabled	14	44	01	07	0000	FFFF	highHow limit	1	0	65535	
21	disabled	15	44	01	07	0000	FFFF	highHow limit	1	0	65535	
22	disabled	16	44	01	07	0000	FFFF	highHow limit	1	0	65535	
23	disabled	17	44	01	07	0000	FFFF	highHow limit	1	0	65535	
24	disabled	18	44	01	07	0000	FFFF	highHow limit	1	0	65535	
25	disabled	19	44	01	07	0000	FFFF	highHow limit	1	0	65535	
26	disabled	1A	44	01	07	0000	FFFF	highHow limit	1	0	65535	
27	disabled	1B	44	01	07	0000	FFFF	highHow limit	1	0	65535	
28	disabled	1C	44	01	07	0000	FFFF	highHow limit	1	0	65535	
29	disabled	1D	44	01	07	0000	FFFF	highHow limit	1	0	65535	
30	disabled	1E	44	01	07	0000	FFFF	highHow limit	1	0	65535	
31	disabled	1F	44	01	07	0000	FFFF	highHow limit	1	0	65535	
32	disabled	20	44	01	07	0000	FFFF	highHow limit	1	0	65535	
33	disabled	21	44	01	07	0000	FFFF	highHow limit	1	0	65535	
34	disabled	22	44	01	07	0000	FFFF	highHow limit	1	0	65535	
35	disabled	23	44	01	07	0000	FFFF	highHow limit	1	0	65535	
36	disabled	24	44	01	07	0000	FFFF	highHow limit	1	0	65535	
37	disabled	25	44	01	07	0000	FFFF	highHow limit	1	0	65535	
38	disabled	26	44	01	07	0000	FFFF	highHow limit	1	0	65535	
39	disabled	27	44	01	07	0000	FFFF	highHow limit	1	0	65535	
40	disabled	28	44	01	07	0000	FFFF	highHow limit	1	0	65535	
41	disabled	29	44	01	07	0000	FFFF	highHow limit	1	0	65535	
42	disabled	2A	44	01	07	0000	FFFF	highHow limit	1	0	65535	
43	disabled	2B	44	01	07	0000	FFFF	highHow limit	1	0	65535	
44	disabled	2C	44	01	07	0000	FFFF	highHow limit	1	0	65535	
45	disabled	2D	44	01	07	0000	FFFF	highHow limit	1	0	65535	
46	enabled	2E	44	01	07	0003	0003	highHow limit	1	3	3	
47	enabled	2F	04	00	07	0000	0000	Expected states	0	0	0	
48	enabled	30	04	01	07	0001	0001	Expected states	1	1	1	
49	enabled	31	04	00	07	0000	0000	Expected states	0	0	0	
50	enabled	32	04	00	07	0000	0000	Expected states	0	0	0	

MONITORING Table 8.1

	Parameter ID DEC	Checking State ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	HTR_WT1 Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	01	08	0000	FFFF	highHow limit	1	0	65535	
2	disabled	02	44	01	08	0000	FFFF	highHow limit	1	0	65535	
3	disabled	03	44	01	08	0000	FFFF	highHow limit	1	0	65535	
4	disabled	04	44	01	08	0000	FFFF	highHow limit	1	0	65535	
5	disabled	05	44	01	08	0000	FFFF	highHow limit	1	0	65535	
6	disabled	06	44	01	08	0000	FFFF	highHow limit	1	0	65535	
7	disabled	07	44	01	08	0000	FFFF	highHow limit	1	0	65535	
8	disabled	08	44	01	08	0000	FFFF	highHow limit	1	0	65535	
9	disabled	09	44	01	08	0000	FFFF	highHow limit	1	0	65535	
10	disabled	0A	44	01	08	0000	FFFF	highHow limit	1	0	65535	
11	disabled	0B	44	01	08	0000	FFFF	highHow limit	1	0	65535	
12	disabled	0C	44	01	08	0000	FFFF	highHow limit	1	0	65535	
13	disabled	0D	44	01	08	0000	FFFF	highHow limit	1	0	65535	
14	disabled	0E	44	01	08	0000	FFFF	highHow limit	1	0	65535	
15	disabled	0F	44	01	08	0000	FFFF	highHow limit	1	0	65535	
16	disabled	10	44	01	08	0000	FFFF	highHow limit	1	0	65535	
17	disabled	11	44	01	08	0000	FFFF	highHow limit	1	0	65535	
18	disabled	12	44	01	08	0000	FFFF	highHow limit	1	0	65535	
19	disabled	13	44	01	08	0000	FFFF	highHow limit	1	0	65535	
20	disabled	14	44	01	08	0000	FFFF	highHow limit	1	0	65535	
21	disabled	15	44	01	08	0000	FFFF	highHow limit	1	0	65535	
22	disabled	16	44	01	08	0000	FFFF	highHow limit	1	0	65535	
23	disabled	17	44	01	08	0000	FFFF	highHow limit	1	0	65535	
24	disabled	18	44	01	08	0000	FFFF	highHow limit	1	0	65535	
25	disabled	19	44	01	08	0000	FFFF	highHow limit	1	0	65535	
26	disabled	1A	44	01	08	0000	FFFF	highHow limit	1	0	65535	
27	disabled	1B	44	01	08	0000	FFFF	highHow limit	1	0	65535	
28	disabled	1C	44	01	08	0000	FFFF	highHow limit	1	0	65535	
29	disabled	1D	44	01	08	0000	FFFF	highHow limit	1	0	65535	
30	disabled	1E	44	01	08	0000	FFFF	highHow limit	1	0	65535	
31	disabled	1F	44	01	08	0000	FFFF	highHow limit	1	0	65535	
32	disabled	20	44	01	08	0000	FFFF	highHow limit	1	0	65535	
33	disabled	21	44	01	08	0000	FFFF	highHow limit	1	0	65535	
34	disabled	22	44	01	08	0000	FFFF	highHow limit	1	0	65535	
35	disabled	23	44	01	08	0000	FFFF	highHow limit	1	0	65535	
36	disabled	24	44	01	08	0000	FFFF	highHow limit	1	0	65535	
37	disabled	25	44	01	08	0000	FFFF	highHow limit	1	0	65535	
38	disabled	26	44	01	08	0000	FFFF	highHow limit	1	0	65535	
39	disabled	27	44	01	08	0000	FFFF	highHow limit	1	0	65535	
40	disabled	28	44	01	08	0000	FFFF	highHow limit	1	0	65535	
41	disabled	29	44	01	08	0000	FFFF	highHow limit	1	0	65535	
42	disabled	2A	44	01	08	0000	FFFF	highHow limit	1	0	65535	
43	disabled	2B	44	01	08	0000	FFFF	highHow limit	1	0	65535	
44	disabled	2C	44	01	08	0000	FFFF	highHow limit	1	0	65535	
45	disabled	2D	44	01	08	0000	FFFF	highHow limit	1	0	65535	
46	enabled	2E	44	00	08	0003	0003	highHow limit	1	3	3	
47	enabled	2F	04	00	08	0000	0000	Expected states	0	0	0	
48	enabled	30	04	00	08	0001	0001	Expected states	1	1	1	
49	enabled	31	04	00	08	0000	0000	Expected states	0	0	0	
50	enabled	32	04	00	08	0000	0000	Expected states	0	0	0	

MONITORING Table 9.1

	Parameter ID DEC	Checking State ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	HTR_WT2 Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	01	09	0000	FFFF	highHow limit	1	0	65535	
2	disabled	02	44	01	09	0000	FFFF	highHow limit	1	0	65535	
3	disabled	03	44	01	09	0000	FFFF	highHow limit	1	0	65535	
4	disabled	04	44	01	09	0000	FFFF	highHow limit	1	0	65535	
5	disabled	05	44	01	09	0000	FFFF	highHow limit	1	0	65535	
6	disabled	06	44	01	09	0000	FFFF	highHow limit	1	0	65535	
7	disabled	07	44	01	09	0000	FFFF	highHow limit	1	0	65535	
8	disabled	08	44	01	09	0000	FFFF	highHow limit	1	0	65535	
9	disabled	09	44	01	09	0000	FFFF	highHow limit	1	0	65535	
10	disabled	0A	44	01	09	0000	FFFF	highHow limit	1	0	65535	
11	disabled	0B	44	01	09	0000	FFFF	highHow limit	1	0	65535	
12	disabled	0C	44	01	09	0000	FFFF	highHow limit	1	0	65535	
13	disabled	0D	44	01	09	0000	FFFF	highHow limit	1	0	65535	
14	disabled	0E	44	01	09	0000	FFFF	highHow limit	1	0	65535	
15	disabled	0F	44	01	09	0000	FFFF	highHow limit	1	0	65535	
16	disabled	10	44	01	09	0000	FFFF	highHow limit	1	0	65535	
17	disabled	11	44	01	09	0000	FFFF	highHow limit	1	0	65535	
18	disabled	12	44	01	09	0000	FFFF	highHow limit	1	0	65535	
19	disabled	13	44	01	09	0000	FFFF	highHow limit	1	0	65535	
20	disabled	14	44	01	09	0000	FFFF	highHow limit	1	0	65535	
21	disabled	15	44	01	09	0000	FFFF	highHow limit	1	0	65535	
22	disabled	16	44	01	09	0000	FFFF	highHow limit	1	0	65535	
23	disabled	17	44	01	09	0000	FFFF	highHow limit	1	0	65535	
24	disabled	18	44	01	09	0000	FFFF	highHow limit	1	0	65535	
25	disabled	19	44	01	09	0000	FFFF	highHow limit	1	0	65535	
26	disabled	1A	44	01	09	0000	FFFF	highHow limit	1	0	65535	
27	disabled	1B	44	01	09	0000	FFFF	highHow limit	1	0	65535	
28	disabled	1C	44	01	09	0000	FFFF	highHow limit	1	0	65535	
29	disabled	1D	44	01	09	0000	FFFF	highHow limit	1	0	65535	
30	disabled	1E	44	01	09	0000	FFFF	highHow limit	1	0	65535	
31	disabled	1F	44	01	09	0000	FFFF	highHow limit	1	0	65535	
32	disabled	20	44	01	09	0000	FFFF	highHow limit	1	0	65535	
33	disabled	21	44	01	09	0000	FFFF	highHow limit	1	0	65535	
34	disabled	22	44	01	09	0000	FFFF	highHow limit	1	0	65535	
35	disabled	23	44	01	09	0000	FFFF	highHow limit	1	0	65535	
36	disabled	24	44	01	09	0000	FFFF	highHow limit	1	0	65535	
37	disabled	25	44	01	09	0000	FFFF	highHow limit	1	0	65535	
38	disabled	26	44	01	09	0000	FFFF	highHow limit	1	0	65535	
39	disabled	27	44	01	09	0000	FFFF	highHow limit	1	0	65535	
40	disabled	28	44	01	09	0000	FFFF	highHow limit	1	0	65535	
41	disabled	29	44	01	09	0000	FFFF	highHow limit	1	0	65535	
42	disabled	2A	44	01	09	0000	FFFF	highHow limit	1	0	65535	
43	disabled	2B	44	01	09	0000	FFFF	highHow limit	1	0	65535	
44	disabled	2C	44	01	09	0000	FFFF	highHow limit	1	0	65535	
45	disabled	2D	44	01	09	0000	FFFF	highHow limit	1	0	65535	
46	enabled	2E	44	01	09	0003	0003	highHow limit	1	3	3	
47	enabled	2F	04	00	09	0000	0000	Expected states	0	0	0	
48	enabled	30	04	00	09	0001	0001	Expected states	1	1	1	
49	enabled	31	04	00	09	0000	0000	Expected states	0	0	0	
50	enabled	32	04	00	09	0000	0000	Expected states	0	0	0	

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Table 10.1

MONITORING Checking State		PTC_WAIT							
Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	01	A	0000	FFFF	Expected states	1	0	65535
2	disabled	02	44	01	A	0000	FFFF	highlow limit	1	0	65535
3	disabled	03	44	01	A	0000	FFFF	highlow limit	1	0	65535
4	disabled	04	44	01	A	0000	FFFF	highlow limit	1	0	65535
5	disabled	05	44	01	A	0000	FFFF	highlow limit	1	0	65535
6	disabled	06	44	01	A	0000	FFFF	highlow limit	1	0	65535
7	disabled	07	44	01	A	0000	FFFF	highlow limit	1	0	65535
8	disabled	08	44	01	A	0000	FFFF	highlow limit	1	0	65535
9	disabled	09	44	01	A	0000	FFFF	highlow limit	1	0	65535
10	disabled	0A	44	01	A	0000	FFFF	highlow limit	1	0	65535
11	disabled	0B	44	01	A	0000	FFFF	highlow limit	1	0	65535
12	disabled	0C	44	01	A	0000	FFFF	highlow limit	1	0	65535
13	disabled	0D	44	01	A	0000	FFFF	highlow limit	1	0	65535
14	disabled	0E	44	01	A	0000	FFFF	highlow limit	1	0	65535
15	disabled	0F	44	01	A	0000	FFFF	highlow limit	1	0	65535
16	disabled	10	44	01	A	0000	FFFF	highlow limit	1	0	65535
17	disabled	11	44	01	A	0000	FFFF	highlow limit	1	0	65535
18	disabled	12	44	01	A	0000	FFFF	highlow limit	1	0	65535
19	disabled	13	44	01	A	0000	FFFF	highlow limit	1	0	65535
20	disabled	14	44	01	A	0000	FFFF	highlow limit	1	0	65535
21	disabled	15	44	01	A	0000	FFFF	highlow limit	1	0	65535
22	disabled	16	44	01	A	0000	FFFF	highlow limit	1	0	65535
23	disabled	17	44	01	A	0000	FFFF	highlow limit	1	0	65535
24	disabled	18	44	01	A	0000	FFFF	highlow limit	1	0	65535
25	disabled	19	44	01	A	0000	FFFF	highlow limit	1	0	65535
26	disabled	1A	44	01	A	0000	FFFF	highlow limit	1	0	65535
27	disabled	1B	44	01	A	0000	FFFF	highlow limit	1	0	65535
28	disabled	1C	44	01	A	0000	FFFF	highlow limit	1	0	65535
29	disabled	1D	44	01	A	0000	FFFF	highlow limit	1	0	65535
30	disabled	1E	44	01	A	0000	FFFF	highlow limit	1	0	65535
31	disabled	1F	44	01	A	0000	FFFF	highlow limit	1	0	65535
32	disabled	20	44	01	A	0000	FFFF	highlow limit	1	0	65535
33	disabled	21	44	01	A	0000	FFFF	highlow limit	1	0	65535
34	disabled	22	44	01	A	0000	FFFF	highlow limit	1	0	65535
35	disabled	23	44	01	A	0000	FFFF	highlow limit	1	0	65535
36	disabled	24	44	01	A	0000	FFFF	highlow limit	1	0	65535
37	disabled	25	44	01	A	0000	FFFF	highlow limit	1	0	65535
38	disabled	26	44	01	A	0000	FFFF	highlow limit	1	0	65535
39	disabled	27	44	01	A	0000	FFFF	highlow limit	1	0	65535
40	disabled	28	44	01	A	0000	FFFF	highlow limit	1	0	65535
41	disabled	29	44	01	A	0000	FFFF	highlow limit	1	0	65535
42	disabled	2A	44	01	A	0000	FFFF	highlow limit	1	0	65535
43	disabled	2B	44	01	A	0000	FFFF	highlow limit	1	0	65535
44	disabled	2C	44	01	A	0000	FFFF	highlow limit	1	0	65535
45	disabled	2D	44	01	A	0000	FFFF	highlow limit	1	0	65535
46	enabled	2E	44	01	A	0002	0002	highlow limit	1	2	2
47	enabled	2F	04	00	A	0000	0000	Expected states	0	0	0
48	enabled	30	04	01	A	0000	0000	Expected states	1	0	0
49	enabled	31	04	01	A	0001	0000	Expected states	1	1	0
50	enabled	32	04	00	A	0000	0000	Expected states	0	0	0

Table 11.1

MONITORING Checking State		Heater							
Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	01	B	0000	FFFF	Expected states	1	0	65535
2	disabled	02	44	01	B	0000	FFFF	highlow limit	1	0	65535
3	disabled	03	44	01	B	0000	FFFF	highlow limit	1	0	65535
4	disabled	04	44	01	B	0000	FFFF	highlow limit	1	0	65535
5	disabled	05	44	01	B	0000	FFFF	highlow limit	1	0	65535
6	disabled	06	44	01	B	0000	FFFF	highlow limit	1	0	65535
7	disabled	07	44	01	B	0000	FFFF	highlow limit	1	0	65535
8	disabled	08	44	01	B	0000	FFFF	highlow limit	1	0	65535
9	disabled	09	44	01	B	0000	FFFF	highlow limit	1	0	65535
10	disabled	0A	44	01	B	0000	FFFF	highlow limit	1	0	65535
11	disabled	0B	44	01	B	0000	FFFF	highlow limit	1	0	65535
12	disabled	0C	44	01	B	0000	FFFF	highlow limit	1	0	65535
13	disabled	0D	44	01	B	0000	FFFF	highlow limit	1	0	65535
14	disabled	0E	44	01	B	0000	FFFF	highlow limit	1	0	65535
15	disabled	0F	44	01	B	0000	FFFF	highlow limit	1	0	65535
16	disabled	10	44	01	B	0000	FFFF	highlow limit	1	0	65535
17	disabled	11	44	01	B	0000	FFFF	highlow limit	1	0	65535
18	disabled	12	44	01	B	0000	FFFF	highlow limit	1	0	65535
19	disabled	13	44	01	B	0000	FFFF	highlow limit	1	0	65535
20	disabled	14	44	01	B	0000	FFFF	highlow limit	1	0	65535
21	disabled	15	44	01	B	0000	FFFF	highlow limit	1	0	65535
22	disabled	16	44	01	B	0000	FFFF	highlow limit	1	0	65535
23	disabled	17	44	01	B	0000	FFFF	highlow limit	1	0	65535
24	disabled	18	44	01	B	0000	FFFF	highlow limit	1	0	65535
25	disabled	19	44	01	B	0000	FFFF	highlow limit	1	0	65535
26	disabled	1A	44	01	B	0000	FFFF	highlow limit	1	0	65535
27	disabled	1B	44	01	B	0000	FFFF	highlow limit	1	0	65535
28	disabled	1C	44	01	B	0000	FFFF	highlow limit	1	0	65535
29	disabled	1D	44	01	B	0000	FFFF	highlow limit	1	0	65535
30	disabled	1E	44	01	B	0000	FFFF	highlow limit	1	0	65535
31	disabled	1F	44	01	B	0000	FFFF	highlow limit	1	0	65535
32	disabled	20	44	01	B	0000	FFFF	highlow limit	1	0	65535
33	disabled	21	44	01	B	0000	FFFF	highlow limit	1	0	65535
34	disabled	22	44	01	B	0000	FFFF	highlow limit	1	0	65535
35	disabled	23	44	01	B	0000	FFFF	highlow limit	1	0	65535
36	disabled	24	44	01	B	0000	FFFF	highlow limit	1	0	65535
37	disabled	25	44	01	B	0000	FFFF	highlow limit	1	0	65535
38	disabled	26	44	01	B	0000	FFFF	highlow limit	1	0	65535
39	disabled	27	44	01	B	0000	FFFF	highlow limit	1	0	65535
40	disabled	28	44	01	B	0000	FFFF	highlow limit	1	0	65535
41	disabled	29	44	01	B	0000	FFFF	highlow limit	1	0	65535
42	disabled	2A	44	01	B	0000	FFFF	highlow limit	1	0	65535
43	disabled	2B	44	01	B	0000	FFFF	highlow limit	1	0	65535
44	disabled	2C	44	01	B	0000	FFFF	highlow limit	1	0	65535
45	disabled	2D	44	01	B	0000	FFFF	highlow limit	1	0	65535
46	enabled	2E	44	01	B	0003	0003	highlow limit	1	3	3
47	enabled	2F	04	00	B	0000	0000	Expected states	0	0	0
48	enabled	30	04	00	B	0001	0001	Expected states	1	1	1
49	enabled	31	04	00	B	0001	0000	Expected states	1	1	0
50	enabled	32	04	00	B	0000	0000	Expected states	0	0	0

Table 12.1

MONITORING Checking State		Idle							
Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
1	disabled	01	04	01	C	0000	FFFF	Expected states	1	0	65535
2	disabled	02	44	01	C	0000	FFFF	highlow limit	1	0	65535
3	disabled	03	44	01	C	0000	FFFF	highlow limit	1	0	65535
4	disabled	04	44	01	C	0000	FFFF	highlow limit	1	0	65535
5	disabled	05	44	01	C	0000	FFFF	highlow limit	1	0	65535
6	disabled	06	44	01	C	0000	FFFF	highlow limit	1	0	65535
7	disabled	07	44	01	C	0000	FFFF	highlow limit	1	0	65535
8	disabled	08	44	01	C	0000	FFFF	highlow limit	1	0	65535
9	disabled	09	44	01	C	0000	FFFF	highlow limit	1	0	65535
10	disabled	0A	44	01	C	0000	FFFF	highlow limit	1	0	65535
11	disabled	0B	44	01	C	0000	FFFF	highlow limit	1	0	65535
12	disabled	0C	44	01	C	0000	FFFF	highlow limit	1	0	65535
13	disabled	0D	44	01	C	0000	FFFF	highlow limit	1	0	65535
14	disabled	0E	44	01	C	0000	FFFF	highlow limit	1	0	65535
15	disabled	0F	44	01	C	0000	FFFF	highlow limit	1	0	65535
16	disabled	10	44	01	C	0000	FFFF	highlow limit	1	0	65535
17	disabled	11	44	01	C	0000	FFFF	highlow limit	1	0	65535
18	disabled	12	44	01	C	0000	FFFF	highlow limit	1	0	65535
19	disabled	13	44	01	C	0000	FFFF	highlow limit	1	0	65535
20	disabled	14	44	01	C	0000	FFFF	highlow limit	1	0	65535
21	disabled	15	44	01	C	0000	FFFF	highlow limit	1	0	65535
22	disabled	16	44	01	C	0000	FFFF	highlow limit	1	0	65535
23	disabled	17	44	01	C	0000	FFFF	highlow limit	1	0	65535
24	disabled	18	44	01	C	0000	FFFF	highlow limit	1	0	65535
25	disabled	19	44	01	C	0000	FFFF	highlow limit	1	0	65535
26	disabled	1A	44	01	C	0000	FFFF	highlow limit	1	0	65535
27	disabled	1B	44	01	C	0000	FFFF	highlow limit	1	0	65535
28	disabled	1C	44	01	C	0000	FFFF	highlow limit	1	0	65535
29	disabled	1D	44	01	C	0000	FFFF	highlow limit	1	0	65535
30	disabled	1E	44	01	C	0000	FFFF	highlow limit	1	0	65535
31	disabled	1F	44	01	C	0000	FFFF	highlow limit	1	0	65535
32	disabled	20	44	01	C	0000	FFFF	highlow limit	1	0	65535
33	disabled	21	44	01	C	0000	FFFF	highlow limit	1	0	65535
34	disabled	22	44	01	C	0000	FFFF	highlow limit	1	0	65535
35	disabled	23	44	01	C	0000	FFFF	highlow limit	1	0	65535
36	disabled	24	44	01	C	0000	FFFF	highlow limit	1	0	65535
37	disabled	25	44	01	C	0000	FFFF	highlow limit	1	0	65535
38	disabled	26	44	01	C	0000	FFFF	highlow limit	1	0	65535
39	disabled	27	44	01	C	0000	FFFF	highlow limit	1	0	65535
40	disabled	28	44	01	C	0000	FFFF	highlow limit	1	0	65535
41	disabled	29	44	01	C	0000	FFFF	highlow limit	1	0	65535
42	disabled	2A	44	01	C	0000	FFFF	highlow limit	1	0	65535
43	disabled	2B	44	01	C	0000	FFFF	highlow limit	1	0	65535
44	disabled	2C	44	01	C	0000	FFFF	highlow limit	1	0	65535
45	disabled	2D	44	01	C	0000	FFFF	highlow limit	1	0	65535
46	enabled	2E	44	01	C	0003	0003	highlow limit	1	3	3
47	enabled	2F	04	00	C	0000	0000	Expected states	0	0	0
48	enabled	30	04	00	C	0001	0001	Expected states	1	1	1
49	enabled	31	04	00	C	0001	0000	Expected states	1	1	0
50	enabled	32	04	00	C	0000	0000	Expected states	0	0	0

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MONITORING Checking State — **Table 13.1**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	State: Type & m-Length	State: Filter	State: Limit High or State 1	State: Limit Low or State 2
1	enabled	01	04	00	D	0000	0000	Expected states	0	0	0
2	enabled	02	44	A	D	6390	0A9C	highLow limit	10	25483	2716
3	enabled	03	44	A	D	5AA8	0989	highLow limit	10	23208	2441
4	enabled	04	44	02	D	4444	3333	highLow limit	2	17476	13107
5	enabled	05	44	02	D	81B4	6AF3	highLow limit	2	33204	27379
6	enabled	06	44	02	D	93E9	8888	highLow limit	2	37865	34952
7	enabled	07	44	02	D	6C16	5565	highLow limit	2	27670	21845
8	enabled	08	44	02	D	C16C	AAAA	highLow limit	2	49516	43690
9	enabled	09	44	A	D	6C29	4420	highLow limit	10	27689	17440
10	enabled	0A	44	A	D	EC82	3BAC	highLow limit	10	60546	15276
11	enabled	0B	44	02	D	93E9	8888	highLow limit	2	37865	34952
12	enabled	0C	44	02	D	6C16	5565	highLow limit	2	27670	21845
13	enabled	0D	44	02	D	C16C	AAAA	highLow limit	2	49516	43690
14	enabled	0E	44	A	D	6CD9	44AC	highLow limit	10	27865	17580
15	enabled	0F	44	A	D	EC82	3BAC	highLow limit	10	60546	15276
16	enabled	10	44	02	D	93E9	8888	highLow limit	2	37865	34952
17	enabled	11	44	02	D	6C16	5565	highLow limit	2	27670	21845
18	enabled	12	44	02	D	C16C	AAAA	highLow limit	2	49516	43690
19	enabled	13	44	A	D	6D38	45AC	highLow limit	10	27960	17836
20	enabled	14	44	A	D	EC82	3BAC	highLow limit	10	60546	15276
21	enabled	15	44	02	D	93E9	8888	highLow limit	2	37865	34952
22	enabled	16	44	02	D	6C16	5565	highLow limit	2	27670	21845
23	enabled	17	44	02	D	C16C	AAAA	highLow limit	2	49516	43690
24	enabled	18	44	A	D	6C0B	44B5	highLow limit	10	27659	17589
25	enabled	19	44	A	D	EC82	3BAC	highLow limit	10	60546	15276
26	enabled	1A	44	02	D	93E9	8888	highLow limit	2	37865	34952
27	enabled	1B	44	02	D	6C16	5565	highLow limit	2	27670	21845
28	enabled	1C	44	02	D	C16C	AAAA	highLow limit	2	49516	43690
29	enabled	1D	44	A	D	6CFE	457E	highLow limit	10	27902	17790
30	enabled	1E	44	A	D	EC82	3BAC	highLow limit	10	60546	15276
31	enabled	1F	44	02	D	FD8D	0164	highLow limit	2	64909	356
32	enabled	20	44	02	D	6C16	5565	highLow limit	2	27670	21845
33	enabled	21	44	02	D	C16C	AAAA	highLow limit	2	49516	43690
34	enabled	22	44	A	D	6C46	4431	highLow limit	10	27718	17457
35	enabled	23	44	A	D	EC82	3BAC	highLow limit	10	60546	15276
36	enabled	24	44	02	D	FD8D	0164	highLow limit	2	64909	356
37	enabled	25	44	02	D	6C16	5565	highLow limit	2	27670	21845
38	enabled	26	44	02	D	C16C	AAAA	highLow limit	2	49516	43690
39	enabled	27	44	A	D	6C0E	30AE	highLow limit	10	27662	12462
40	enabled	28	44	A	D	EC82	3BAC	highLow limit	10	60546	15276
41	enabled	29	44	02	D	FD8D	0164	highLow limit	2	64909	356
42	enabled	2A	44	02	D	6C16	5565	highLow limit	2	27670	21845
43	enabled	2B	44	02	D	6CE3	3132	highLow limit	10	27875	12594
44	enabled	2C	44	A	D	6CE3	3132	highLow limit	10	27875	12594
45	enabled	2D	44	A	D	EC82	3BAC	highLow limit	10	60546	15276
46	enabled	2E	44	01	D	0005	0005	highLow limit	1	5	5
47	enabled	2F	44	00	D	0000	0000	Expected states	0	0	0
48	enabled	30	44	00	D	0001	0001	Expected states	0	1	1
49	enabled	31	44	01	D	0001	0001	Expected states	0	1	1
50	enabled	32	44	00	D	0000	0000	Expected states	0	0	0

MONITORING Checking State — **Table 14.1**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	SPARE_1: Type & m-Length	SPARE_1: Filter	SPARE_1: Limit High or State 1	SPARE_1: Limit Low or State 2
1	disabled	01	04	01	E	0000	FFFF	Expected states	1	0	65535
2	disabled	02	44	01	E	0000	FFFF	highLow limit	1	0	65535
3	disabled	03	44	01	E	0000	FFFF	highLow limit	1	0	65535
4	disabled	04	44	01	E	0000	FFFF	highLow limit	1	0	65535
5	disabled	05	44	01	E	0000	FFFF	highLow limit	1	0	65535
6	disabled	06	44	01	E	0000	FFFF	highLow limit	1	0	65535
7	disabled	07	44	01	E	0000	FFFF	highLow limit	1	0	65535
8	disabled	08	44	01	E	0000	FFFF	highLow limit	1	0	65535
9	disabled	09	44	01	E	0000	FFFF	highLow limit	1	0	65535
10	disabled	0A	44	01	E	0000	FFFF	highLow limit	1	0	65535
11	disabled	0B	44	01	E	0000	FFFF	highLow limit	1	0	65535
12	disabled	0C	44	01	E	0000	FFFF	highLow limit	1	0	65535
13	disabled	0D	44	01	E	0000	FFFF	highLow limit	1	0	65535
14	disabled	0E	44	01	E	0000	FFFF	highLow limit	1	0	65535
15	disabled	0F	44	01	E	0000	FFFF	highLow limit	1	0	65535
16	disabled	10	44	01	E	0000	FFFF	highLow limit	1	0	65535
17	disabled	11	44	01	E	0000	FFFF	highLow limit	1	0	65535
18	disabled	12	44	01	E	0000	FFFF	highLow limit	1	0	65535
19	disabled	13	44	01	E	0000	FFFF	highLow limit	1	0	65535
20	disabled	14	44	01	E	0000	FFFF	highLow limit	1	0	65535
21	disabled	15	44	01	E	0000	FFFF	highLow limit	1	0	65535
22	disabled	16	44	01	E	0000	FFFF	highLow limit	1	0	65535
23	disabled	17	44	01	E	0000	FFFF	highLow limit	1	0	65535
24	disabled	18	44	01	E	0000	FFFF	highLow limit	1	0	65535
25	disabled	19	44	01	E	0000	FFFF	highLow limit	1	0	65535
26	disabled	1A	44	01	E	0000	FFFF	highLow limit	1	0	65535
27	disabled	1B	44	01	E	0000	FFFF	highLow limit	1	0	65535
28	disabled	1C	44	01	E	0000	FFFF	highLow limit	1	0	65535
29	disabled	1D	44	01	E	0000	FFFF	highLow limit	1	0	65535
30	disabled	1E	44	01	E	0000	FFFF	highLow limit	1	0	65535
31	disabled	1F	44	01	E	0000	FFFF	highLow limit	1	0	65535
32	disabled	20	44	01	E	0000	FFFF	highLow limit	1	0	65535
33	disabled	21	44	01	E	0000	FFFF	highLow limit	1	0	65535
34	disabled	22	44	01	E	0000	FFFF	highLow limit	1	0	65535
35	disabled	23	44	01	E	0000	FFFF	highLow limit	1	0	65535
36	disabled	24	44	01	E	0000	FFFF	highLow limit	1	0	65535
37	disabled	25	44	01	E	0000	FFFF	highLow limit	1	0	65535
38	disabled	26	44	01	E	0000	FFFF	highLow limit	1	0	65535
39	disabled	27	44	01	E	0000	FFFF	highLow limit	1	0	65535
40	disabled	28	44	01	E	0000	FFFF	highLow limit	1	0	65535
41	disabled	29	44	01	E	0000	FFFF	highLow limit	1	0	65535
42	disabled	2A	44	01	E	0000	FFFF	highLow limit	1	0	65535
43	disabled	2B	44	01	E	0000	FFFF	highLow limit	1	0	65535
44	disabled	2C	44	01	E	0000	FFFF	highLow limit	1	0	65535
45	disabled	2D	44	01	E	0000	FFFF	highLow limit	1	0	65535
46	enabled	2E	44	01	E	0002	0002	highLow limit	1	2	2
47	enabled	2F	44	00	E	0000	0000	Expected states	0	0	0
48	enabled	30	44	01	E	0000	0000	Expected states	1	0	0
49	enabled	31	44	01	E	0001	0000	Expected states	1	1	0
50	enabled	32	44	00	E	0000	0000	Expected states	0	0	0

MONITORING Checking State — **Table 15.1**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	SPARE_2: Type & m-Length	SPARE_2: Filter	SPARE_2: Limit High or State 1	SPARE_2: Limit Low or State 2
1	disabled	01	04	01	F	0000	FFFF	Expected states	1	0	65535
2	disabled	02	44	01	F	0000	FFFF	highLow limit	1	0	65535
3	disabled	03	44	01	F	0000	FFFF	highLow limit	1	0	65535
4	disabled	04	44	01	F	0000	FFFF	highLow limit	1	0	65535
5	disabled	05	44	01	F	0000	FFFF	highLow limit	1	0	65535
6	disabled	06	44	01	F	0000	FFFF	highLow limit	1	0	65535
7	disabled	07	44	01	F	0000	FFFF	highLow limit	1	0	65535
8	disabled	08	44	01	F	0000	FFFF	highLow limit	1	0	65535
9	disabled	09	44	01	F	0000	FFFF	highLow limit	1	0	65535
10	disabled	0A	44	01	F	0000	FFFF	highLow limit	1	0	65535
11	disabled	0B	44	01	F	0000	FFFF	highLow limit	1	0	65535
12	disabled	0C	44	01	F	0000	FFFF	highLow limit	1	0	65535
13	disabled	0D	44	01	F	0000	FFFF	highLow limit	1	0	65535
14	disabled	0E	44	01	F	0000	FFFF	highLow limit	1	0	65535
15	disabled	0F	44	01	F	0000	FFFF	highLow limit	1	0	65535
16	disabled	10	44	01	F	0000	FFFF	highLow limit	1	0	65535
17	disabled	11	44	01	F	0000	FFFF	highLow limit	1	0	65535
18	disabled	12	44	01	F	0000	FFFF	highLow limit	1	0	65535
19	disabled	13	44	01	F	0000	FFFF	highLow limit	1	0	65535
20	disabled	14	44	01	F	0000	FFFF	highLow limit	1	0	65535
21	disabled	15	44	01	F	0000	FFFF	highLow limit	1	0	65535
22	disabled	16	44	01	F	0000	FFFF	highLow limit	1	0	65535
23	disabled	17	44	01	F	0000	FFFF	highLow limit	1	0	65535
24	disabled	18	44	01	F	0000	FFFF	highLow limit	1	0	65535
25	disabled	19	44	01	F	0000	FFFF	highLow limit	1	0	65535
26	disabled	1A	44	01	F	0000	FFFF	highLow limit	1	0	65535
27	disabled	1B	44	01	F	0000	FFFF	highLow limit	1	0	65535
28	disabled	1C	44	01	F	0000	FFFF	highLow limit	1	0	65535
29	disabled	1D	44	01	F	0000	FFFF	highLow limit	1	0	65535
30	disabled	1E	44	01	F	0000	FFFF	highLow limit	1	0	65535
31	disabled	1F	44	01	F	0000	FFFF	highLow limit	1	0	65535
32	disabled	20	44	01	F	0000	FFFF	highLow limit	1	0	65535
33	disabled	21	44	01	F	0000	FFFF	highLow limit	1	0	65535
34	disabled	22	44	01	F	0000	FFFF	highLow limit	1	0	65535
35	disabled	23	44	01	F	0000	FFFF	highLow limit	1	0	65535
36	disabled	24	44	01	F	0000	FFFF	highLow limit	1	0	65535
37	disabled	25	44	01	F	0000	FFFF	highLow limit	1	0	65535
38	disabled	26	44	01	F	0000	FFFF	highLow limit	1	0	65535
39	disabled	27	44	01	F	0000	FFFF	highLow limit	1	0	65535
40	disabled	28	44	01	F	0000	FFFF	highLow limit	1	0	65535
41	disabled	29	44	01	F	0000	FFFF	highLow limit	1	0	65535
42	disabled	2A	44	01	F	0000	FFFF	highLow limit	1	0	65535
43	disabled	2B	44	01	F	0000	FFFF	highLow limit	1	0	65535
44	disabled	2C	44	01	F	0000	FFFF	highLow limit	1	0	65535
45	disabled	2D	44	01	F	0000	FFFF	highLow limit	1	0	65535
46	enabled	2E	44	01	F	0007	0001	highLow limit	1	7	1
47	enabled	2F	44	00	F	0000	0000	Expected states	0	0	0
48	enabled	30	44	01	F	0001	0000	Expected states	1	1	0
49	enabled	31	44	01	F	0000	FFFF	highLow limit	1	0	65535
50	enabled	32	44	00	F	0000	0000	Expected states	0	0	0

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MONITORING Table 1.2

Parameter ID DEC	Checking State	Standbye						
	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	0000	FFFF	Expected states	1	0	65535
52	disabled	34	04	01	0000	FFFF	Expected states	1	0	65535
53	disabled	35	04	01	0000	FFFF	Expected states	1	0	65535
54	disabled	36	04	01	0000	FFFF	Expected states	1	0	65535
55	disabled	37	04	01	0000	FFFF	Expected states	1	0	65535
56	disabled	38	04	01	0000	FFFF	Expected states	1	0	65535
57	disabled	39	04	01	0000	FFFF	Expected states	1	0	65535
58	disabled	3A	04	01	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	0000	FFFF	Expected states	1	0	65535
60	disabled	3C	04	01	0000	FFFF	Expected states	1	0	65535
61	disabled	3D	04	01	0000	FFFF	Expected states	1	0	65535
62	disabled	3E	04	01	0000	FFFF	Expected states	1	0	65535
63	disabled	3F	04	01	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	0000	FFFF	Expected states	1	0	65535
65	disabled	41	04	01	0000	FFFF	Expected states	1	0	65535
66	disabled	42	04	01	0000	FFFF	Expected states	1	0	65535
67	disabled	43	04	01	0000	FFFF	Expected states	1	0	65535
68	disabled	44	04	01	0000	FFFF	Expected states	1	0	65535
69	disabled	45	04	01	0000	FFFF	Expected states	1	0	65535
70	disabled	46	44	01	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	0000	FFFF	Expected states	1	0	65535
80	disabled	50	44	01	0000	FFFF	high/low limit	1	0	65535
81	disabled	51	04	01	0000	FFFF	Expected states	1	0	65535
82	disabled	52	04	01	0000	FFFF	Expected states	1	0	65535
83	disabled	53	04	01	0000	FFFF	Expected states	1	0	65535
84	disabled	54	04	01	0000	FFFF	Expected states	1	0	65535
85	disabled	55	04	01	0000	FFFF	Expected states	1	0	65535
86	disabled	56	04	01	0000	FFFF	Expected states	1	0	65535
87	disabled	57	04	01	0000	FFFF	Expected states	1	0	65535
88	disabled	58	04	01	0000	FFFF	Expected states	1	0	65535
89	disabled	59	04	01	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	0000	FFFF	high/low limit	1	0	65535
100	disabled	64	44	01	0000	FFFF	high/low limit	1	0	65535

MONITORING Table 2.2

Parameter ID DEC	Checking State	Decontamination						
	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	02	0000	FFFF	Expected states	1	0	65535
52	disabled	34	04	01	02	0000	FFFF	Expected states	1	0	65535
53	disabled	35	04	01	02	0000	FFFF	Expected states	1	0	65535
54	disabled	36	04	01	02	0000	FFFF	Expected states	1	0	65535
55	disabled	37	04	01	02	0000	FFFF	Expected states	1	0	65535
56	disabled	38	04	01	02	0000	FFFF	Expected states	1	0	65535
57	disabled	39	04	01	02	0000	FFFF	Expected states	1	0	65535
58	disabled	3A	04	01	02	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	02	0000	FFFF	Expected states	1	0	65535
60	disabled	3C	04	01	02	0000	FFFF	Expected states	1	0	65535
61	disabled	3D	04	01	02	0000	FFFF	Expected states	1	0	65535
62	disabled	3E	04	01	02	0000	FFFF	Expected states	1	0	65535
63	disabled	3F	04	01	02	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	02	0000	FFFF	Expected states	1	0	65535
65	disabled	41	04	01	02	0000	FFFF	Expected states	1	0	65535
66	disabled	42	04	01	02	0000	FFFF	Expected states	1	0	65535
67	disabled	43	04	01	02	0000	FFFF	Expected states	1	0	65535
68	disabled	44	04	01	02	0000	FFFF	Expected states	1	0	65535
69	disabled	45	04	01	02	0000	FFFF	Expected states	1	0	65535
70	disabled	46	44	01	02	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	02	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	02	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	02	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	02	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	02	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	02	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	02	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	02	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	02	0000	FFFF	Expected states	1	0	65535
80	disabled	50	44	01	02	0000	FFFF	high/low limit	1	0	65535
81	disabled	51	04	01	02	0000	FFFF	Expected states	1	0	65535
82	disabled	52	04	01	02	0000	FFFF	Expected states	1	0	65535
83	disabled	53	04	01	02	0000	FFFF	Expected states	1	0	65535
84	disabled	54	04	01	02	0000	FFFF	Expected states	1	0	65535
85	disabled	55	04	01	02	0000	FFFF	Expected states	1	0	65535
86	disabled	56	04	01	02	0000	FFFF	Expected states	1	0	65535
87	disabled	57	04	01	02	0000	FFFF	Expected states	1	0	65535
88	disabled	58	04	01	02	0000	FFFF	Expected states	1	0	65535
89	disabled	59	04	01	02	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	02	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	02	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	02	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	02	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	02	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	02	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	02	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	02	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	02	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	02	0000	FFFF	high/low limit	1	0	65535
100	disabled	64	44	01	02	0000	FFFF	high/low limit	1	0	65535

MONITORING Table 3.2

Parameter ID DEC	Checking State	Standby_Refuse_1						
	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	03	0000	FFFF	Expected states	1	0	65535
52	disabled	34	04	01	03	0000	FFFF	Expected states	1	0	65535
53	disabled	35	04	01	03	0000	FFFF	Expected states	1	0	65535
54	disabled	36	04	01	03	0000	FFFF	Expected states	1	0	65535
55	disabled	37	04	01	03	0000	FFFF	Expected states	1	0	65535
56	disabled	38	04	01	03	0000	FFFF	Expected states	1	0	65535
57	disabled	39	04	01	03	0000	FFFF	Expected states	1	0	65535
58	disabled	3A	04	01	03	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	03	0000	FFFF	Expected states	1	0	65535
60	disabled	3C	04	01	03	0000	FFFF	Expected states	1	0	65535
61	disabled	3D	04	01	03	0000	FFFF	Expected states	1	0	65535
62	disabled	3E	04	01	03	0000	FFFF	Expected states	1	0	65535
63	disabled	3F	04	01	03	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	03	0000	FFFF	Expected states	1	0	65535
65	disabled	41	04	01	03	0000	FFFF	Expected states	1	0	65535
66	disabled	42	04	01	03	0000	FFFF	Expected states	1	0	65535
67	disabled	43	04	01	03	0000	FFFF	Expected states	1	0	65535
68	disabled	44	04	01	03	0000	FFFF	Expected states	1	0	65535
69	disabled	45	04	01	03	0000	FFFF	Expected states	1	0	65535
70	disabled	46	44	01	03	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	03	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	03	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	03	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	03	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	03	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	03	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	03	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	03	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	03	0000	FFFF	Expected states	1	0	65535
80	disabled	50	44	01	03	0000	FFFF	high/low limit	1	0	65535
81	disabled	51	04	01	03	0000	FFFF	Expected states	1	0	65535
82	disabled	52	04	01	03	0000	FFFF	Expected states	1	0	65535
83	disabled	53	04	01	03	0000	FFFF	Expected states	1	0	65535
84	disabled	54	04	01	03	0000	FFFF	Expected states	1	0	65535
85	disabled	55	04	01	03	0000	FFFF	Expected states	1	0	65535
86	disabled	56	04	01	03	0000	FFFF	Expected states	1	0	65535
87	disabled	57	04	01	03	0000	FFFF	Expected states	1	0	65535
88	disabled	58	04	01	03	0000	FFFF	Expected states	1	0	65535
89	disabled	59	04	01	03	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	03	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	03	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	03	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	03	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	03	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	03	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	03	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	03	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	03	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	03	0000	FFFF	high/low limit	1	0	65535
100	disabled	64	44	01	03	0000	FFFF	high/low limit	1	0	65535

EEPROM – ICU_SW V. 2.03

MONITORING **Table 4.2**

Checking State		Standby_Refuse_E							
Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	04	0000	FFFF	Expected states	1	0	65535
52	disabled	34	04	01	04	0000	FFFF	Expected states	1	0	65535
53	disabled	35	04	01	04	0000	FFFF	Expected states	1	0	65535
54	disabled	36	04	01	04	0000	FFFF	Expected states	1	0	65535
55	disabled	37	04	01	04	0000	FFFF	Expected states	1	0	65535
56	disabled	38	04	01	04	0000	FFFF	Expected states	1	0	65535
57	disabled	39	04	01	04	0000	FFFF	Expected states	1	0	65535
58	disabled	3A	04	01	04	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	04	0000	FFFF	Expected states	1	0	65535
60	disabled	3C	04	01	04	0000	FFFF	Expected states	1	0	65535
61	disabled	3D	04	01	04	0000	FFFF	Expected states	1	0	65535
62	disabled	3E	04	01	04	0000	FFFF	Expected states	1	0	65535
63	disabled	3F	04	01	04	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	04	0000	FFFF	Expected states	1	0	65535
65	disabled	41	04	01	04	0000	FFFF	Expected states	1	0	65535
66	disabled	42	04	01	04	0000	FFFF	Expected states	1	0	65535
67	disabled	43	04	01	04	0000	FFFF	Expected states	1	0	65535
68	disabled	44	04	01	04	0000	FFFF	Expected states	1	0	65535
69	disabled	45	04	01	04	0000	FFFF	Expected states	1	0	65535
70	disabled	46	44	01	04	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	04	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	04	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	04	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	04	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	04	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	04	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	04	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	04	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	04	0000	FFFF	Expected states	1	0	65535
80	disabled	50	44	01	04	0000	FFFF	high/low limit	1	0	65535
81	disabled	51	04	01	04	0000	FFFF	Expected states	1	0	65535
82	disabled	52	04	01	04	0000	FFFF	Expected states	1	0	65535
83	disabled	53	04	01	04	0000	FFFF	Expected states	1	0	65535
84	disabled	54	04	01	04	0000	FFFF	Expected states	1	0	65535
85	disabled	55	04	01	04	0000	FFFF	Expected states	1	0	65535
86	disabled	56	04	01	04	0000	FFFF	Expected states	1	0	65535
87	disabled	57	04	01	04	0000	FFFF	Expected states	1	0	65535
88	disabled	58	04	01	04	0000	FFFF	Expected states	1	0	65535
89	disabled	59	04	01	04	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	04	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	04	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	04	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	04	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	04	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	04	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	04	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	04	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	04	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	04	0000	FFFF	high/low limit	1	0	65535
100	disabled	64	44	01	04	0000	FFFF	high/low limit	1	0	65535

MONITORING **Table 5.2**

Checking State		Heater_Refuse							
Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	05	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	05	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	05	0000	0000	Expected states	30	0	0
54	disabled	36	04	01	05	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	05	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	05	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	05	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	05	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	05	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	05	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	05	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	05	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	05	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	05	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	05	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	05	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	05	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	05	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	05	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	05	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	05	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	05	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	05	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	05	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	05	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	05	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	05	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	05	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	05	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	05	0001	0001	high/low limit	1	1	1
81	enabled	51	04	01	05	0000	0000	Expected states	0	0	0
82	enabled	52	04	01	05	0000	0000	Expected states	0	0	0
83	enabled	53	04	01	05	0000	0000	Expected states	0	0	0
84	enabled	54	04	00	05	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	05	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	05	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	05	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	05	0000	0000	Expected states	0	0	0
89	disabled	59	04	01	05	0000	FFFF	Expected states	1	0	65535
90	enabled	5A	04	00	05	0000	0000	Expected states	0	0	0
91	disabled	5B	44	01	05	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	05	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	05	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	05	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	05	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	05	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	05	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	05	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	05	0000	FFFF	high/low limit	1	0	65535
100	disabled	64	44	01	05	0000	FFFF	high/low limit	1	0	65535

MONITORING **Table 6.2**

Checking State		Trans							
Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	06	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	06	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	06	0000	0000	Expected states	30	0	0
54	disabled	36	04	01	06	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	06	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	06	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	06	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	06	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	06	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	06	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	06	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	06	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	06	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	06	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	06	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	06	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	06	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	06	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	06	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	06	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	06	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	06	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	06	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	06	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	06	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	06	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	06	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	06	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	06	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	06	0005	0003	high/low limit	1	5	3
81	enabled	51	44	01	06	0003	0001	high/low limit	1	3	1
82	enabled	52	04	01	06	0001	0001	Expected states	1	1	1
83	enabled	53	04	01	06	0001	0001	Expected states	1	1	1
84	enabled	54	04	00	06	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	06	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	06	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	06	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	06	0000	0000	Expected states	0	0	0
89	disabled	59	04	01	06	0000	FFFF	Expected states	1	0	65535
90	enabled	5A	04	00	06	0001	0001	Expected states	1	1	1
91	disabled	5B	44	01	06	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	06	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	06	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	06	0000	FFFF	high/low limit	1	0	65535
95	enabled	5F	44	01	06	8002	7FFE	high/low limit	1	32770	32766
96	disabled	60	04	01	06	0001	0001	Expected states	1	1	1
97	disabled	61	44	01	06	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	06	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	06	0000	FFFF	high/low limit	1	0	65535
100	disabled	64	44	01	06	0000	FFFF	high/low limit	1	0	65535

EEPROM – ICU_SW V. 2.03

MONITORING Table 7.2

Parameter ID DEC	ENABLED / DISABLED	Checking State	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	HTR_WT0 Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	07	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	07	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	07	0000	0000	Expected states	30	0	0
54	disabled	36	04	01	07	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	07	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	07	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	07	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	07	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	07	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	07	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	07	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	07	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	07	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	07	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	07	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	07	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	07	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	07	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	07	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	07	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	07	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	07	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	07	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	07	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	07	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	07	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	07	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	07	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	07	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	07	0003	0003	high/low limit	1	3	3
81	enabled	51	44	01	07	0000	0000	high/low limit	1	0	0
82	enabled	52	04	01	07	0000	0000	Expected states	1	0	0
83	enabled	53	04	01	07	0000	0000	Expected states	1	0	0
84	enabled	54	04	00	07	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	07	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	07	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	07	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	07	0000	0000	Expected states	0	0	0
89	disabled	59	04	01	07	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	07	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	07	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	07	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	07	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	07	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	07	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	07	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	07	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	07	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	07	0000	FFFF	high/low limit	1	0	65535

MONITORING Table 8.2

Parameter ID DEC	ENABLED / DISABLED	Checking State	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	HTR_WT1 Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	08	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	08	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	08	0000	0000	Expected states	30	0	0
54	disabled	36	04	01	08	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	08	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	08	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	08	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	08	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	08	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	08	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	08	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	08	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	08	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	08	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	08	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	08	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	08	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	08	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	08	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	08	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	08	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	08	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	08	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	08	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	08	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	08	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	08	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	08	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	08	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	08	0003	0003	high/low limit	1	3	3
81	enabled	51	44	01	08	0003	0001	high/low limit	1	3	1
82	enabled	52	04	01	08	0000	0000	Expected states	1	0	0
83	enabled	53	04	01	08	0000	0000	Expected states	1	0	0
84	enabled	54	04	00	08	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	08	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	08	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	08	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	08	0000	0000	Expected states	0	0	0
89	disabled	59	04	01	08	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	08	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	08	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	08	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	08	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	08	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	08	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	08	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	08	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	08	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	08	0000	FFFF	high/low limit	1	0	65535

MONITORING Table 9.2

Parameter ID DEC	ENABLED / DISABLED	Checking State	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	HTR_WT2 Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	09	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	09	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	09	0000	0000	Expected states	30	0	0
54	disabled	36	04	01	09	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	09	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	09	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	09	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	09	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	09	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	09	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	09	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	09	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	09	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	09	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	09	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	09	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	09	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	09	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	09	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	09	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	09	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	09	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	09	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	09	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	09	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	09	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	09	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	09	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	09	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	09	0003	0003	high/low limit	1	3	3
81	enabled	51	44	01	09	0003	0001	high/low limit	1	3	1
82	enabled	52	04	01	09	0001	0001	Expected states	1	1	1
83	enabled	53	04	01	09	0001	0000	Expected states	1	1	0
84	enabled	54	04	00	09	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	09	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	09	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	09	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	09	0000	0000	Expected states	0	0	0
89	disabled	59	04	01	09	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	09	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	09	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	09	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	09	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	09	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	09	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	09	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	09	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	09	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	09	0000	FFFF	high/low limit	1	0	65535

EEPROM – ICU_SW V. 2.03

MONITORING **Table 10.2**

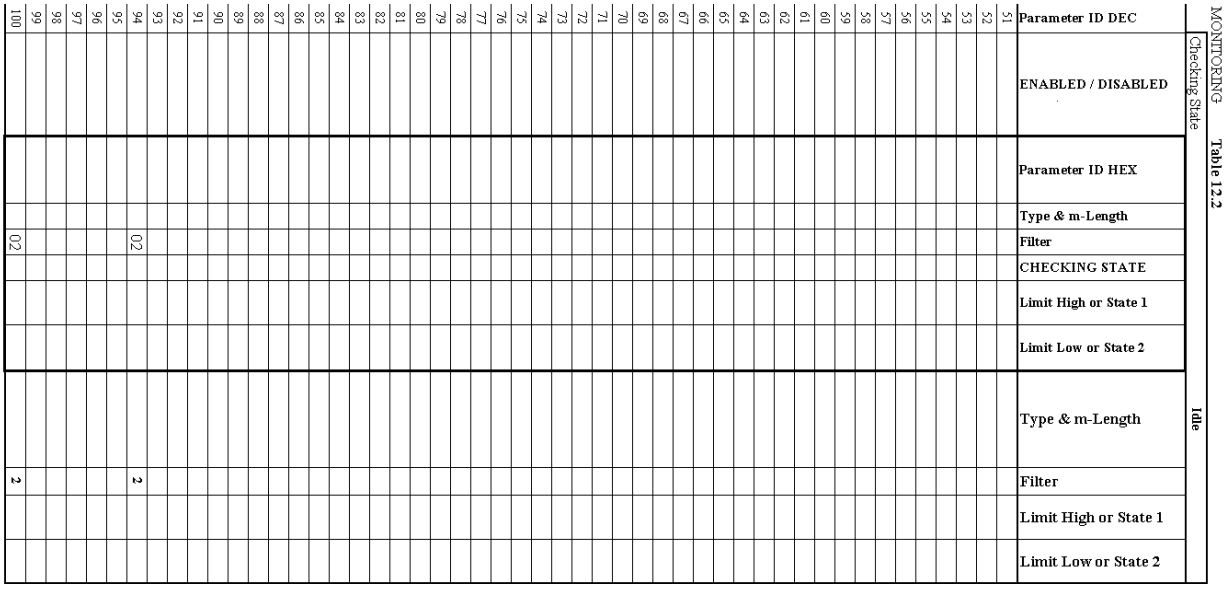
	Checking State	Parameter ID DEC	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	PTC_WAIT Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	A	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	A	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	A	0000	0000	Expected states	30	0	65535
54	disabled	36	04	01	A	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	A	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	A	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	A	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	A	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	A	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	A	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	A	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	A	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	A	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	A	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	A	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	A	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	A	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	A	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	A	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	A	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	A	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	A	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	A	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	A	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	A	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	A	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	A	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	A	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	A	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	A	0002	0002	high/low limit	1	2	2
81	enabled	51	44	01	A	0000	0000	high/low limit	1	0	0
82	enabled	52	04	01	A	0000	0000	Expected states	1	0	0
83	enabled	53	04	01	A	0000	0000	Expected states	1	0	0
84	enabled	54	04	00	A	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	A	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	A	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	A	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	A	0000	0000	Expected states	0	0	0
89	disabled	59	04	01	A	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	A	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	A	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	A	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	A	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	A	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	A	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	A	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	A	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	A	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	A	0000	FFFF	high/low limit	1	0	65535
100	disabled	64	44	01	A	0000	FFFF	high/low limit	1	0	65535

MONITORING **Table 11.2**

	Checking State	Parameter ID DEC	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Heater Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	B	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	B	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	B	0000	0000	Expected states	30	0	65535
54	disabled	36	04	01	B	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	B	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	B	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	B	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	B	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	B	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	B	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	B	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	B	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	B	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	B	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	B	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	B	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	B	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	B	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	B	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	B	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	B	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	B	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	B	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	B	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	B	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	B	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	B	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	B	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	B	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	B	0003	0003	high/low limit	1	3	3
81	enabled	51	44	01	B	0003	0001	high/low limit	1	3	1
82	enabled	52	04	01	B	0001	0001	Expected states	1	1	1
83	enabled	53	04	01	B	0001	0001	Expected states	1	1	1
84	enabled	54	04	00	B	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	B	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	B	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	B	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	B	0000	0000	Expected states	0	0	0
89	disabled	59	04	01	B	0000	FFFF	Expected states	1	0	65535
90	enabled	5A	04	01	B	0001	0001	Expected states	1	1	1
91	enabled	5B	44	01	B	0EB7	0513	high/low limit	1	2999	1299
92	enabled	5C	44	01	B	0AEF	044A	high/low limit	1	2799	1098
93	enabled	5D	44	01	B	0AEF	0513	high/low limit	1	2799	1299
94	enabled	5E	44	01	B	0059	0000	high/low limit	1	89	0
95	enabled	5F	44	01	B	8002	7FFE	high/low limit	1	32770	32766
96	enabled	60	04	01	B	0001	0001	Expected states	1	1	1
97	enabled	61	44	01	B	0C1B	04E1	high/low limit	1	3099	1249
98	enabled	62	44	01	B	0B21	03E7	high/low limit	1	2849	999
99	enabled	63	44	01	B	0B21	04E1	high/low limit	1	2849	1249
100	enabled	64	44	01	B	0028	0000	high/low limit	1	40	0

MONITORING **Table 12.2**

	Checking State	Parameter ID DEC	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Idle Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	C	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	C	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	C	0000	0000	Expected states	30	0	65535
54	disabled	36	04	01	C	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	C	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	C	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	C	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	C	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	C	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	C	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	C	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	C	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	C	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	C	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	C	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	C	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	C	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	C	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	C	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	C	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	C	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	C	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	C	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	C	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	C	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	C	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	C	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	C	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	C	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	C	0003	0003	high/low limit	1	3	3
81	enabled	51	44	01	C	0003	0001	high/low limit	1	3	1
82	enabled	52	04	01	C	0001	0001	Expected states	1	1	1
83	enabled	53	04	01	C	0001	0001	Expected states	1	1	1
84	enabled	54	04	00	C	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	C	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	C	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	C	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	C	0000	0000	Expected states	0	0	0
89	disabled	59	04	01	C	0000	FFFF	Expected states	1	0	65535
90	enabled	5A	04	01	C	0001	0001	Expected states	1	1	1
91	enabled	5B	44	01	C	0EB7	0513	high/low limit	1	2999	1299
92	enabled	5C	44	01	C	0AEF	044A	high/low limit	1	2799	1098
93	enabled	5D	44	01	C	0AEF	0513	high/low limit	1	2799	1299
94	enabled	5E	44	01	C	0059	0000	high/low limit	1	89	0
95	enabled	5F	44	01	C	8002	7FFE	high/low limit	1	32770	32766
96	enabled	60	04	01	C	0001	0001	Expected states	1	1	1
97	enabled	61	44	01	C	0C1B	04E1	high/low limit	1	3099	1249
98	enabled	62	44	01	C	0B21	03E7	high/low limit	1	2849	999
99	enabled	63	44	01	C	0B21	04E1	high/low limit	1	2849	1249
100	enabled	64	44	01	C	0028	0000	high/low limit	1	40	0



MONITORING Table 12.2

Parameter ID DEC	Checking State	Idle
ENABLED / DISABLED		
Parameter ID HEX		
Type & m-Length		
Filter	02	
CHECKING STATE		
Limit High or State 1		
Limit Low or State 2		
Type & m-Length		
Filter	2	
Limit High or State 1		
Limit Low or State 2		

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51
02						02																																												
2						2																																												

EEPROM – ICU_SW V. 2.03

MONITORING **Table 13.2**

	Checking State					State			
Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	D	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	D	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	D	0000	0000	Expected states	30	0	0
54	disabled	36	04	01	D	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	D	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	D	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	D	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	D	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	D	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	D	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	D	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	D	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	D	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	D	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	D	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	D	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	D	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	D	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	D	0000	0000	Expected states	0	0	0
70	enabled	46	04	00	D	1CFF	0000	high/low limit	0	7423	0
71	enabled	47	04	00	D	0000	0000	Expected states	0	0	0
72	disabled	48	04	01	D	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	D	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	D	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	D	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	D	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	D	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	D	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	D	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	D	0005	0005	high/low limit	1	5	5
81	enabled	51	44	01	D	0003	0001	high/low limit	1	3	1
82	enabled	52	04	01	D	0001	0001	Expected states	1	1	1
83	enabled	53	04	01	D	0001	0001	Expected states	1	1	1
84	enabled	54	04	00	D	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	D	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	D	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	D	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	D	0000	0000	Expected states	0	0	0
89	enabled	59	04	01	D	0000	0000	Expected states	1	0	65535
90	enabled	5A	04	01	D	0001	0001	Expected states	1	1	1
91	disabled	5B	44	01	D	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	D	0000	FFFF	high/low limit	1	0	65535
93	enabled	5D	44	01	D	0AEF	0513	high/low limit	1	2799	1299
94	enabled	5E	44	01	D	00C5	0000	high/low limit	1	197	0
95	enabled	5F	44	01	D	8002	7FFE	high/low limit	1	32770	32766
96	enabled	60	04	01	D	0001	0001	Expected states	1	1	1
97	disabled	61	44	01	D	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	D	0000	FFFF	high/low limit	1	0	65535
99	enabled	63	44	01	D	0E21	04E1	high/low limit	1	2849	1249
100	enabled	64	44	01	D	0438	0000	high/low limit	1	1080	0

MONITORING **Table 14.2**

	Checking State					SPARE_1			
Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	E	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	E	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	E	0000	0000	Expected states	30	0	0
54	disabled	36	04	01	E	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	00	E	0000	0000	Expected states	0	0	0
56	enabled	38	04	00	E	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	E	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	E	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	E	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	00	E	0000	0000	Expected states	0	0	0
61	enabled	3D	04	00	E	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	E	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	E	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	E	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	00	E	0000	0000	Expected states	0	0	0
66	enabled	42	04	00	E	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	E	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	E	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	E	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	E	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	E	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	E	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	E	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	E	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	E	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	E	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	E	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	E	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	E	0000	FFFF	Expected states	1	0	65535
80	enabled	50	44	01	E	0002	0002	high/low limit	1	2	2
81	enabled	51	44	01	E	0000	0000	high/low limit	1	0	0
82	enabled	52	04	01	E	0000	0000	Expected states	1	0	0
83	enabled	53	04	01	E	0000	0000	Expected states	1	0	0
84	enabled	54	04	00	E	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	E	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	E	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	E	0000	0000	Expected states	0	0	0
88	enabled	58	04	00	E	0004	0000	Expected states	0	4	0
89	disabled	59	04	01	E	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	E	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	E	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	E	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	E	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	E	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	E	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	E	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	E	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	E	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	E	0000	FFFF	high/low limit	1	0	65535
100	disabled	64	44	01	E	0000	FFFF	high/low limit	1	0	65535

MONITORING **Table 15.2**

	Checking State					SPARE_2			
Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
51	disabled	33	04	01	F	0000	FFFF	Expected states	1	0	65535
52	enabled	34	04	00	F	0000	0000	Expected states	0	0	0
53	enabled	35	04	1E	F	0000	0000	Expected states	30	0	0
54	disabled	36	04	01	F	0000	FFFF	Expected states	1	0	65535
55	enabled	37	04	01	F	0000	0000	Expected states	1	0	0
56	enabled	38	04	00	F	0000	0000	Expected states	0	0	0
57	enabled	39	04	00	F	0000	0000	Expected states	0	0	0
58	disabled	3A	04	01	F	0000	FFFF	Expected states	1	0	65535
59	disabled	3B	04	01	F	0000	FFFF	Expected states	1	0	65535
60	enabled	3C	04	01	F	0000	0000	Expected states	1	0	0
61	enabled	3D	04	00	F	0000	0000	Expected states	0	0	0
62	enabled	3E	04	00	F	0000	0000	Expected states	0	0	0
63	disabled	3F	04	01	F	0000	FFFF	Expected states	1	0	65535
64	disabled	40	04	01	F	0000	FFFF	Expected states	1	0	65535
65	enabled	41	04	01	F	0000	0000	Expected states	1	0	0
66	enabled	42	04	00	F	0000	0000	Expected states	0	0	0
67	enabled	43	04	00	F	0000	0000	Expected states	0	0	0
68	disabled	44	04	01	F	0000	FFFF	Expected states	1	0	65535
69	enabled	45	04	00	F	0000	0000	Expected states	0	0	0
70	disabled	46	44	01	F	0000	FFFF	high/low limit	1	0	65535
71	disabled	47	04	01	F	0000	FFFF	Expected states	1	0	65535
72	disabled	48	04	01	F	0000	FFFF	Expected states	1	0	65535
73	disabled	49	04	01	F	0000	FFFF	Expected states	1	0	65535
74	disabled	4A	04	01	F	0000	FFFF	Expected states	1	0	65535
75	disabled	4B	04	01	F	0000	FFFF	Expected states	1	0	65535
76	disabled	4C	04	01	F	0000	FFFF	Expected states	1	0	65535
77	disabled	4D	04	01	F	0000	FFFF	Expected states	1	0	65535
78	disabled	4E	04	01	F	0000	FFFF	Expected states	1	0	65535
79	disabled	4F	04	01	F	0000	FFFF	Expected states	1	0	65535
80	disabled	50	44	01	F	0000	FFFF	high/low limit	1	0	65535
81	disabled	51	44	01	F	0000	FFFF	Expected states	1	0	65535
82	disabled	52	04	01	F	0000	FFFF	Expected states	1	0	65535
83	disabled	53	04	01	F	0000	FFFF	Expected states	1	0	65535
84	enabled	54	04	00	F	0000	0000	Expected states	0	0	0
85	enabled	55	04	00	F	0000	0000	Expected states	0	0	0
86	enabled	56	04	00	F	0000	0000	Expected states	0	0	0
87	enabled	57	04	00	F	0000	0000	Expected states	0	0	0
88	enabled	58	44	00	F	0003	0000	high/low limit	0	3	0
89	disabled	59	04	01	F	0000	FFFF	Expected states	1	0	65535
90	disabled	5A	04	01	F	0000	FFFF	Expected states	1	0	65535
91	disabled	5B	44	01	F	0000	FFFF	high/low limit	1	0	65535
92	disabled	5C	44	01	F	0000	FFFF	high/low limit	1	0	65535
93	disabled	5D	44	01	F	0000	FFFF	high/low limit	1	0	65535
94	disabled	5E	44	01	F	0000	FFFF	high/low limit	1	0	65535
95	disabled	5F	44	01	F	0000	FFFF	high/low limit	1	0	65535
96	disabled	60	04	01	F	0000	FFFF	Expected states	1	0	65535
97	disabled	61	44	01	F	0000	FFFF	high/low limit	1	0	65535
98	disabled	62	44	01	F	0000	FFFF	high/low limit	1	0	65535
99	disabled	63	44	01	F	0000	FFFF	high/low limit	1	0	65535
100	disabled	64	44	01	F	0000	FFFF	high/low limit	1	0	65535

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MONITORING

Table 13.2

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51		
																																																	Parameter ID DEC	
																																																ENABLED / DISABLED	Checking State
																																															Parameter ID HEX	State
																																															Type & m-Length	
																																															Filter	
																																															CHECKING STATE	
						0180																																										Limit High or State 1	
																																															Limit Low or State 2	
																																															Type & m-Length	
																																															Filter	
						384																																										Limit High or State 1	
																																																Limit Low or State 2	

EEPROM – ICU_SW V. 2.03

MONITORING Checking State — **Table 1.3** — **Standbye**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & μ-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	disabled	65	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
102	disabled	66	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
103	disabled	67	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
104	disabled	68	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
105	disabled	69	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
106	disabled	6A	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
107	disabled	6B	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
108	disabled	6C	04 01 01	0000	FFFF	Expected states	65335	Expected states	1	0	65335
109	disabled	6D	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
110	disabled	6E	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
111	disabled	6F	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
112	disabled	70	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
113	disabled	71	04 01 01	0000	FFFF	Expected states	65335	Expected states	1	0	65335
114	disabled	72	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
115	disabled	73	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
116	disabled	74	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
117	disabled	75	04 01 01	0000	FFFF	Expected states	65335	Expected states	1	0	65335
118	disabled	76	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
119	disabled	77	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
120	disabled	78	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
121	disabled	79	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
122	disabled	7A	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
123	disabled	7B	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
124	disabled	7C	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
125	disabled	7D	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
126	disabled	7E	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
127	disabled	7F	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
128	disabled	80	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
129	disabled	81	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
130	disabled	82	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
131	disabled	83	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
132	disabled	84	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
133	disabled	85	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
134	disabled	86	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
135	disabled	87	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
136	disabled	88	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
137	disabled	89	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
138	disabled	8A	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
139	disabled	8B	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
140	disabled	8C	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
141	disabled	8D	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
142	disabled	8E	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
143	disabled	8F	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
144	disabled	90	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
145	disabled	91	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
146	disabled	92	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
147	disabled	93	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
148	disabled	94	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
149	disabled	95	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
150	disabled	96	44 01 01	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335

MONITORING Checking State — **Table 2.3** — **Decontamination**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	disabled	65	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
102	disabled	66	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
103	disabled	67	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
104	disabled	68	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
105	disabled	69	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
106	disabled	6A	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
107	disabled	6B	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
108	disabled	6C	04 01 02	0000	FFFF	Expected states	65335	Expected states	1	0	65335
109	disabled	6D	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
110	disabled	6E	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
111	disabled	6F	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
112	disabled	70	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
113	disabled	71	04 01 02	0000	FFFF	Expected states	65335	Expected states	1	0	65335
114	disabled	72	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
115	disabled	73	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
116	disabled	74	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
117	disabled	75	04 01 02	0000	FFFF	Expected states	65335	Expected states	1	0	65335
118	disabled	76	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
119	disabled	77	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
120	disabled	78	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
121	disabled	79	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
122	disabled	7A	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
123	disabled	7B	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
124	disabled	7C	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
125	disabled	7D	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
126	disabled	7E	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
127	disabled	7F	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
128	disabled	80	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
129	disabled	81	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
130	disabled	82	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
131	disabled	83	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
132	disabled	84	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
133	disabled	85	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
134	disabled	86	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
135	disabled	87	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
136	disabled	88	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
137	disabled	89	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
138	disabled	8A	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
139	disabled	8B	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
140	disabled	8C	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
141	disabled	8D	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
142	disabled	8E	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
143	disabled	8F	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
144	disabled	90	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
145	disabled	91	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
146	disabled	92	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
147	disabled	93	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
148	disabled	94	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
149	disabled	95	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
150	disabled	96	44 01 02	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335

MONITORING Checking State — **Table 3.3** — **Standby_Refuse_I**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	disabled	65	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
102	disabled	66	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
103	disabled	67	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
104	disabled	68	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
105	disabled	69	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
106	disabled	6A	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
107	disabled	6B	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
108	disabled	6C	04 01 03	0000	FFFF	Expected states	65335	Expected states	1	0	65335
109	disabled	6D	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
110	disabled	6E	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
111	disabled	6F	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
112	disabled	70	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
113	disabled	71	04 01 03	0000	FFFF	Expected states	65335	Expected states	1	0	65335
114	disabled	72	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
115	disabled	73	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
116	disabled	74	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
117	disabled	75	04 01 03	0000	FFFF	Expected states	65335	Expected states	1	0	65335
118	disabled	76	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
119	disabled	77	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
120	disabled	78	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
121	disabled	79	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
122	disabled	7A	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
123	disabled	7B	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
124	disabled	7C	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
125	disabled	7D	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
126	disabled	7E	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
127	disabled	7F	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
128	disabled	80	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
129	disabled	81	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
130	disabled	82	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
131	disabled	83	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
132	disabled	84	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
133	disabled	85	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
134	disabled	86	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
135	disabled	87	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
136	disabled	88	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
137	disabled	89	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
138	disabled	8A	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
139	disabled	8B	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
140	disabled	8C	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
141	disabled	8D	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
142	disabled	8E	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
143	disabled	8F	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
144	disabled	90	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
145	disabled	91	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
146	disabled	92	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
147	disabled	93	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
148	disabled	94	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
149	disabled	95	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335
150	disabled	96	44 01 03	0000	FFFF	highLow limit	65335	highLow limit	1	0	65335

no modifications to the contents of the tables on the
opposite side as burned in EEPROM – ICU_SW V.2.03

EEPROM – ICU_SW V. 2.03

MONITORING Checking State — **Table 4.3**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Standby_Refuse_E Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	disabled	65	44 01 04 0000 FFFF					highlow limit	1	0	65535
102	disabled	66	44 01 04 0000 FFFF					highlow limit	1	0	65535
103	disabled	67	44 01 04 0000 FFFF					highlow limit	1	0	65535
104	disabled	68	44 01 04 0000 FFFF					highlow limit	1	0	65535
105	disabled	69	44 01 04 0000 FFFF					highlow limit	1	0	65535
106	disabled	6A	44 01 04 0000 FFFF					highlow limit	1	0	65535
107	disabled	6B	44 01 04 0000 FFFF					highlow limit	1	0	65535
108	disabled	6C	04 01 04 0000 FFFF					Expected states	1	0	65535
109	disabled	6D	44 01 04 0000 FFFF					highlow limit	1	0	65535
110	disabled	6E	44 01 04 0000 FFFF					highlow limit	1	0	65535
111	disabled	6F	44 01 04 0000 FFFF					highlow limit	1	0	65535
112	disabled	70	44 01 04 0000 FFFF					highlow limit	1	0	65535
113	disabled	71	04 01 04 0000 FFFF					Expected states	1	0	65535
114	disabled	72	44 01 04 0000 FFFF					highlow limit	1	0	65535
115	disabled	73	44 01 04 0000 FFFF					highlow limit	1	0	65535
116	disabled	74	44 01 04 0000 FFFF					highlow limit	1	0	65535
117	disabled	75	04 01 04 0000 FFFF					Expected states	1	0	65535
118	disabled	76	44 01 04 0000 FFFF					highlow limit	1	0	65535
119	disabled	77	44 01 04 0000 FFFF					highlow limit	1	0	65535
120	disabled	78	44 01 04 0000 FFFF					highlow limit	1	0	65535
121	disabled	79	44 01 04 0000 FFFF					highlow limit	1	0	65535
122	disabled	7A	44 01 04 0000 FFFF					highlow limit	1	0	65535
123	disabled	7B	44 01 04 0000 FFFF					highlow limit	1	0	65535
124	disabled	7C	44 01 04 0000 FFFF					highlow limit	1	0	65535
125	disabled	7D	44 01 04 0000 FFFF					highlow limit	1	0	65535
126	disabled	7E	44 01 04 0000 FFFF					highlow limit	1	0	65535
127	disabled	7F	44 01 04 0000 FFFF					highlow limit	1	0	65535
128	disabled	80	44 01 04 0000 FFFF					highlow limit	1	0	65535
129	disabled	81	44 01 04 0000 FFFF					highlow limit	1	0	65535
130	disabled	82	44 01 04 0000 FFFF					highlow limit	1	0	65535
131	disabled	83	44 01 04 0000 FFFF					highlow limit	1	0	65535
132	disabled	84	44 01 04 0000 FFFF					highlow limit	1	0	65535
133	disabled	85	44 01 04 0000 FFFF					highlow limit	1	0	65535
134	disabled	86	44 01 04 0000 FFFF					highlow limit	1	0	65535
135	disabled	87	44 01 04 0000 FFFF					highlow limit	1	0	65535
136	disabled	88	44 01 04 0000 FFFF					highlow limit	1	0	65535
137	disabled	89	44 01 04 0000 FFFF					highlow limit	1	0	65535
138	disabled	8A	44 01 04 0000 FFFF					highlow limit	1	0	65535
139	disabled	8B	44 01 04 0000 FFFF					highlow limit	1	0	65535
140	disabled	8C	44 01 04 0000 FFFF					highlow limit	1	0	65535
141	disabled	8D	44 01 04 0000 FFFF					highlow limit	1	0	65535
142	disabled	8E	44 01 04 0000 FFFF					highlow limit	1	0	65535
143	disabled	8F	44 01 04 0000 FFFF					highlow limit	1	0	65535
144	disabled	90	44 01 04 0000 FFFF					highlow limit	1	0	65535
145	disabled	91	44 01 04 0000 FFFF					highlow limit	1	0	65535
146	disabled	92	44 01 04 0000 FFFF					highlow limit	1	0	65535
147	disabled	93	44 01 04 0000 FFFF					highlow limit	1	0	65535
148	disabled	94	44 01 04 0000 FFFF					highlow limit	1	0	65535
149	disabled	95	44 01 04 0000 FFFF					highlow limit	1	0	65535
150	disabled	96	44 01 04 0000 FFFF					highlow limit	1	0	65535

MONITORING Checking State — **Table 5.3**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Heater_Refuse Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	disabled	65	44 01 05 0000 FFFF					highlow limit	1	0	65535
102	enabled	66	04 01 05 0077 0077					Expected states	1	119	119
103	disabled	67	44 01 05 0000 FFFF					highlow limit	1	0	65535
104	disabled	68	44 01 05 0000 FFFF					highlow limit	1	0	65535
105	disabled	69	44 01 05 0000 FFFF					highlow limit	1	0	65535
106	disabled	6A	44 01 05 0000 FFFF					highlow limit	1	0	65535
107	disabled	6B	44 01 05 0000 FFFF					highlow limit	1	0	65535
108	disabled	6C	04 01 05 0000 FFFF					Expected states	1	0	65535
109	disabled	6D	44 01 05 0000 FFFF					highlow limit	1	0	65535
110	disabled	6E	44 01 05 0000 FFFF					highlow limit	1	0	65535
111	disabled	6F	44 01 05 0000 FFFF					highlow limit	1	0	65535
112	disabled	70	44 01 05 0000 FFFF					highlow limit	1	0	65535
113	disabled	71	04 01 05 0000 FFFF					Expected states	1	0	65535
114	disabled	72	44 01 05 0000 FFFF					highlow limit	1	0	65535
115	disabled	73	44 01 05 0000 FFFF					highlow limit	1	0	65535
116	disabled	74	44 01 05 0000 FFFF					highlow limit	1	0	65535
117	disabled	75	04 01 05 0000 FFFF					Expected states	1	0	65535
118	disabled	76	44 01 05 0000 FFFF					highlow limit	1	0	65535
119	disabled	77	44 01 05 0000 FFFF					highlow limit	1	0	65535
120	disabled	78	44 01 05 0000 FFFF					highlow limit	1	0	65535
121	disabled	79	44 01 05 0000 FFFF					highlow limit	1	0	65535
122	disabled	7A	44 01 05 0000 FFFF					highlow limit	1	0	65535
123	disabled	7B	44 01 05 0000 FFFF					highlow limit	1	0	65535
124	disabled	7C	44 01 05 0000 FFFF					highlow limit	1	0	65535
125	disabled	7D	44 01 05 0000 FFFF					highlow limit	1	0	65535
126	disabled	7E	44 01 05 0000 FFFF					highlow limit	1	0	65535
127	disabled	7F	44 01 05 0000 FFFF					highlow limit	1	0	65535
128	disabled	80	44 01 05 0000 FFFF					highlow limit	1	0	65535
129	disabled	81	44 01 05 0000 FFFF					highlow limit	1	0	65535
130	disabled	82	44 01 05 0000 FFFF					highlow limit	1	0	65535
131	disabled	83	44 01 05 0000 FFFF					highlow limit	1	0	65535
132	disabled	84	44 01 05 0000 FFFF					highlow limit	1	0	65535
133	disabled	85	44 01 05 0000 FFFF					highlow limit	1	0	65535
134	disabled	86	44 01 05 0000 FFFF					highlow limit	1	0	65535
135	disabled	87	44 01 05 0000 FFFF					highlow limit	1	0	65535
136	disabled	88	44 01 05 0000 FFFF					highlow limit	1	0	65535
137	disabled	89	44 01 05 0000 FFFF					highlow limit	1	0	65535
138	disabled	8A	44 01 05 0000 FFFF					highlow limit	1	0	65535
139	disabled	8B	44 01 05 0000 FFFF					highlow limit	1	0	65535
140	disabled	8C	44 01 05 0000 FFFF					highlow limit	1	0	65535
141	disabled	8D	44 01 05 0000 FFFF					highlow limit	1	0	65535
142	disabled	8E	44 01 05 0000 FFFF					highlow limit	1	0	65535
143	disabled	8F	44 01 05 0000 FFFF					highlow limit	1	0	65535
144	disabled	90	44 01 05 0000 FFFF					highlow limit	1	0	65535
145	disabled	91	44 01 05 0000 FFFF					highlow limit	1	0	65535
146	disabled	92	44 01 05 0000 FFFF					highlow limit	1	0	65535
147	disabled	93	44 01 05 0000 FFFF					highlow limit	1	0	65535
148	disabled	94	44 01 05 0000 FFFF					highlow limit	1	0	65535
149	disabled	95	44 01 05 0000 FFFF					highlow limit	1	0	65535
150	disabled	96	44 01 05 0000 FFFF					highlow limit	1	0	65535

MONITORING Checking State — **Table 6.3**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Trans Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	enabled	65	44 01 06 8002 7FFE					highlow limit	1	32770	32766
102	enabled	66	04 01 06 0007 0007					Expected states	1	7	7
103	enabled	67	44 A 06 CEA2 0E31					highlow limit	10	52898	36633
104	enabled	68	44 A 06 CE97 0E28					highlow limit	10	52887	36624
105	enabled	69	44 A 06 CE92 0E2E					highlow limit	10	52882	36630
106	enabled	6A	44 A 06 FAAB 05E8					highlow limit	10	64171	1512
107	enabled	6B	44 A 06 FA94 05BB					highlow limit	10	64148	1467
108	enabled	6C	04 01 06 0001 0001					Expected states	1	1	1
109	enabled	6D	44 01 06 0FFF 0000					highlow limit	1	4095	0
110	enabled	6E	44 01 06 0FFF 0000					highlow limit	1	4095	0
111	enabled	6F	44 01 06 0FFF 0000					highlow limit	1	4095	0
112	enabled	70	44 A 06 FAC3 14F7					highlow limit	10	64195	5367
113	enabled	71	04 01 06 0001 0001					Expected states	1	1	1
114	enabled	72	44 01 06 0FFF 0000					highlow limit	1	4095	0
115	enabled	73	44 01 06 0FFF 0000					highlow limit	1	4095	0
116	enabled	74	44 01 06 0FFF 0000					highlow limit	1	4095	0
117	enabled	75	04 01 06 0000 0000					Expected states	1	0	0
118	enabled	76	44 01 06 8028 7FD7					highlow limit	1	32808	32727
119	disabled	77	44 01 06 80A3 7F5C					highlow limit	1	32931	32604
120	disabled	78	44 01 06 80A3 7F5C					highlow limit	1	32931	32604
121	enabled	79	44 01 06 D4DB C0DA					highlow limit	1	54491	49370
122	enabled	7A	44 01 06 D630 C0DA					highlow limit	1	54832	49370
123	enabled	7B	44 01 06 D630 BE2F					highlow limit	1	54832	48687
124	enabled	7C	44 01 06 D4DB C385					highlow limit	1	54491	50053
125	enabled	7D	44 A 06 D230 BE2F					highlow limit	10	53808	48687
126	enabled	7E	44 A 06 D230 BE2F					highlow limit	10	53808	48687
127	disabled	7F	44 01 06 DB86 BF85					highlow limit	1	56198	49029
128	disabled	80	44 01 06 DB86 BF85					highlow limit	1	56198	49029
129	disabled	81	44 01 06 DB86 BF85					highlow limit	1	56198	49029
130	disabled	82	44 01 06 DB86 BF85					highlow limit	1	56198	49029
131	disabled	83	44 01 06 C51B AFF6					highlow limit	1	50459	45046
132	disabled	84	44 01 06 C521 AFFA					highlow limit	1	50465	45050
133	disabled	85	44 01 06 EAD9 E2A1					highlow limit	1	60121	58017
134	disabled	86	44 01 06 EAEA E2B1					highlow limit	1	60138	58033
135	disabled	87	44 01 06 1D2A 14EE					highlow limit	1	7466	5358
136	disabled	88	44 01 06 1D17 14D8					highlow limit	1	7447	5336
137	disabled	89	44 01 06 EC03 DE03					highlow limit	1	60419	56835
138	disabled	8A	44 01 06 EC1C DE18					highlow limit	1	60444	56856
139	disabled	8B	44 01 06 ED0E E05E					highlow limit	1	60686	57438
140	disabled	8C	44 01 06 ED0F E05F					highlow limit	1	60687	57439
141	disabled	8D	44 01 06 EFB2 DE69					highlow limit	1	61362	56937
142	disabled	8E	44 01 06 EF98 DE53					highlow limit	1	61336	56915
143	disabled	8F	44 01 06 EA1A DE17					highlow limit	1	59930	56855
144	disabled	90	44 01 06 EA15 DE12					highlow limit	1	59925	56850
145	disabled	91	44 01 06 EA23 DE1F					highlow limit	1	59939	56863
146	disabled	92	44 01 06 F1E2 ED6B					highlow limit	1	61922	60779
147	disabled	93	44 01 06 F10F ECA0					highlow limit	1	61711	60576
148	disabled	94	44 01 06 F123 ECB3					highlow limit	1	61731	60595
149	disabled	95	44 01 06 F201 ED89					highlow limit	1	61953	60809
150	disabled	96	44 01 06 F17C ED09					highlow limit	1	61820	60681

MONITORING **Table 6.3**

| | Parameter ID DEC | Checking State | Trans | | |

EEPROM – ICU_SW V. 2.03

MONITORING Checking State — **Table 7.3**

	Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	HTR_WT0 Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	65	disabled	41	01	07	0000	FFFF	highLow limit	1	0	65535
102	66	enabled	42	01	07	0007	0007	Expected states	1	7	7
103	67	enabled	43	01	07	CEA2	0E31	highLow limit	10	52898	3633
104	68	enabled	44	01	07	CE97	0E28	highLow limit	10	52887	3624
105	69	enabled	45	01	07	CE92	0E2E	highLow limit	10	52882	3630
106	6A	disabled	46	01	07	0000	FFFF	highLow limit	1	0	65535
107	6B	disabled	47	01	07	0000	FFFF	highLow limit	1	0	65535
108	6C	disabled	48	01	07	0001	0001	Expected states	1	1	1
109	6D	enabled	49	01	07	0000	0000	highLow limit	1	0	0
110	6E	enabled	4A	01	07	0000	0000	highLow limit	1	0	0
111	6F	enabled	4B	01	07	0000	0000	highLow limit	1	0	0
112	70	enabled	4C	01	07	FAC3	14F7	highLow limit	10	64195	5367
113	71	enabled	4D	01	07	0001	0001	Expected states	1	1	1
114	72	enabled	4E	01	07	0000	0000	highLow limit	1	0	0
115	73	enabled	4F	01	07	0000	0000	highLow limit	1	0	0
116	74	enabled	50	01	07	0000	0000	highLow limit	1	0	0
117	75	enabled	51	01	07	0000	0000	Expected states	1	0	0
118	76	enabled	52	01	07	8028	7FD7	highLow limit	1	32808	32727
119	77	disabled	53	01	07	80A3	7F5C	highLow limit	1	32931	32604
120	78	disabled	54	01	07	80A3	7F5C	highLow limit	1	32931	32604
121	79	enabled	55	01	07	D4DB	C0DA	highLow limit	1	54491	49370
122	7A	enabled	56	01	07	D630	C0DA	highLow limit	1	54832	49370
123	7B	enabled	57	01	07	D630	BE2F	highLow limit	1	54832	48687
124	7C	enabled	58	01	07	D4DB	C385	highLow limit	1	54491	50053
125	7D	enabled	59	08	07	D230	BE2F	highLow limit	10	53808	48687
126	7E	enabled	5A	08	07	D230	BE2F	highLow limit	10	53808	48687
127	7F	disabled	5B	08	07	DB86	BF85	highLow limit	1	56198	49029
128	80	disabled	5C	08	07	DB86	BF85	highLow limit	1	56198	49029
129	81	disabled	5D	08	07	DB86	BF85	highLow limit	1	56198	49029
130	82	disabled	5E	08	07	DB86	BF85	highLow limit	1	56198	49029
131	83	disabled	5F	08	07	C51B	AFF6	highLow limit	1	50459	45046
132	84	disabled	60	08	07	C521	AFFA	highLow limit	1	50465	45050
133	85	disabled	61	08	07	EAD9	E2A1	highLow limit	1	60121	58017
134	86	disabled	62	08	07	EAEA	E2B1	highLow limit	1	60138	58033
135	87	disabled	63	08	07	1D2A	14EE	highLow limit	1	7466	5338
136	88	disabled	64	08	07	1D17	14D8	highLow limit	1	7447	5336
137	89	disabled	65	08	07	EC03	DE03	highLow limit	1	60419	56835
138	8A	disabled	66	08	07	EC1C	DE18	highLow limit	1	60444	56856
139	8B	disabled	67	08	07	ED0E	E05E	highLow limit	1	60686	57438
140	8C	disabled	68	08	07	ED0F	E05F	highLow limit	1	60687	57439
141	8D	disabled	69	08	07	EFB2	DE69	highLow limit	1	61362	56937
142	8E	disabled	6A	08	07	EF98	DE53	highLow limit	1	61336	56915
143	8F	disabled	6B	08	07	EA1A	DE17	highLow limit	1	59930	56855
144	90	disabled	6C	08	07	EA15	DE12	highLow limit	1	59925	56850
145	91	enabled	6D	08	07	EA23	DE1F	highLow limit	1	59939	56863
146	92	enabled	6E	08	07	F1E2	ED6B	highLow limit	1	61922	60779
147	93	enabled	6F	08	07	F10F	ECA0	highLow limit	1	61711	60576
148	94	enabled	70	08	07	F123	ECB3	highLow limit	1	61731	60595
149	95	enabled	71	08	07	F201	ED89	highLow limit	1	61953	60809
150	96	enabled	72	08	07	F17C	ED09	highLow limit	1	61820	60681

MONITORING Checking State — **Table 8.3**

	Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	HTR_WT1 Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	65	disabled	41	01	08	0000	FFFF	highLow limit	1	0	65535
102	66	enabled	42	01	08	0007	0007	Expected states	1	7	7
103	67	enabled	43	01	08	CEA2	0E31	highLow limit	10	52898	3633
104	68	enabled	44	01	08	CE97	0E28	highLow limit	10	52887	3624
105	69	enabled	45	01	08	CE92	0E2E	highLow limit	10	52882	3630
106	6A	disabled	46	01	08	0000	FFFF	highLow limit	1	0	65535
107	6B	disabled	47	01	08	0000	FFFF	highLow limit	1	0	65535
108	6C	disabled	48	01	08	0001	0001	Expected states	1	1	1
109	6D	enabled	49	01	08	0FFF	0000	highLow limit	1	4095	0
110	6E	enabled	4A	01	08	0FFF	0000	highLow limit	1	4095	0
111	6F	enabled	4B	01	08	0FFF	0000	highLow limit	1	4095	0
112	70	enabled	4C	01	08	FAC3	14F7	highLow limit	10	64195	5367
113	71	enabled	4D	01	08	0001	0001	Expected states	1	1	1
114	72	enabled	4E	01	08	0000	0000	highLow limit	1	0	0
115	73	enabled	4F	01	08	0000	0000	highLow limit	1	0	0
116	74	enabled	50	01	08	0000	0000	highLow limit	1	0	0
117	75	enabled	51	01	08	0000	0000	Expected states	1	0	0
118	76	enabled	52	01	08	8028	7FD7	highLow limit	1	32808	32727
119	77	disabled	53	01	08	80A3	7F5C	highLow limit	1	32931	32604
120	78	disabled	54	01	08	80A3	7F5C	highLow limit	1	32931	32604
121	79	enabled	55	01	08	D4DB	C0DA	highLow limit	1	54491	49370
122	7A	enabled	56	01	08	D630	C0DA	highLow limit	1	54832	49370
123	7B	enabled	57	01	08	D630	BE2F	highLow limit	1	54832	48687
124	7C	enabled	58	01	08	D4DB	C385	highLow limit	1	54491	50053
125	7D	enabled	59	08	08	D230	BE2F	highLow limit	10	53808	48687
126	7E	enabled	5A	08	08	D230	BE2F	highLow limit	10	53808	48687
127	7F	disabled	5B	08	08	DB86	BF85	highLow limit	1	56198	49029
128	80	disabled	5C	08	08	DB86	BF85	highLow limit	1	56198	49029
129	81	disabled	5D	08	08	DB86	BF85	highLow limit	1	56198	49029
130	82	disabled	5E	08	08	DB86	BF85	highLow limit	1	56198	49029
131	83	disabled	5F	08	08	C51B	AFF6	highLow limit	1	50459	45046
132	84	disabled	60	08	08	C521	AFFA	highLow limit	1	50465	45050
133	85	disabled	61	08	08	EAD9	E2A1	highLow limit	1	60121	58017
134	86	disabled	62	08	08	EAEA	E2B1	highLow limit	1	60138	58033
135	87	disabled	63	08	08	1D2A	14EE	highLow limit	1	7466	5338
136	88	disabled	64	08	08	1D17	14D8	highLow limit	1	7447	5336
137	89	disabled	65	08	08	EC03	DE03	highLow limit	1	60419	56835
138	8A	disabled	66	08	08	EC1C	DE18	highLow limit	1	60444	56856
139	8B	disabled	67	08	08	ED0E	E05E	highLow limit	1	60686	57438
140	8C	disabled	68	08	08	ED0F	E05F	highLow limit	1	60687	57439
141	8D	disabled	69	08	08	EFB2	DE69	highLow limit	1	61362	56937
142	8E	disabled	6A	08	08	EF98	DE53	highLow limit	1	61336	56915
143	8F	disabled	6B	08	08	EA1A	DE17	highLow limit	1	59930	56855
144	90	disabled	6C	08	08	EA15	DE12	highLow limit	1	59925	56850
145	91	enabled	6D	08	08	EA23	DE1F	highLow limit	1	59939	56863
146	92	enabled	6E	08	08	F1E2	ED6B	highLow limit	1	61922	60779
147	93	enabled	6F	08	08	F10F	ECA0	highLow limit	1	61711	60576
148	94	enabled	70	08	08	F123	ECB3	highLow limit	1	61731	60595
149	95	enabled	71	08	08	F201	ED89	highLow limit	1	61953	60809
150	96	enabled	72	08	08	F17C	ED09	highLow limit	1	61820	60681

MONITORING Checking State — **Table 9.3**

	Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	HTR_WT2 Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	65	disabled	41	01	09	0000	FFFF	highLow limit	1	0	65535
102	66	enabled	42	01	09	0007	0007	Expected states	1	7	7
103	67	enabled	43	A	09	CEA2	0E31	highLow limit	10	52898	3633
104	68	enabled	44	A	09	CE97	0E28	highLow limit	10	52887	3624
105	69	enabled	45	A	09	CE92	0E2E	highLow limit	10	52882	3630
106	6A	disabled	46	01	09	0000	FFFF	highLow limit	1	0	65535
107	6B	disabled	47	01	09	0000	FFFF	highLow limit	1	0	65535
108	6C	disabled	48	01	09	0001	0001	Expected states	1	1	1
109	6D	enabled	49	01	09	0FFF	0000	highLow limit	1	4095	0
110	6E	enabled	4A	01	09	0FFF	0000	highLow limit	1	4095	0
111	6F	enabled	4B	01	09	0FFF	0000	highLow limit	1	4095	0
112	70	enabled	4C	A	09	FAC3	14F7	highLow limit	10	64195	5367
113	71	enabled	4D	01	09	0001	0001	Expected states	1	1	1
114	72	enabled	4E	01	09	0FFF	0000	highLow limit	1	4095	0
115	73	enabled	4F	01	09	0FFF	0000	highLow limit	1	4095	0
116	74	enabled	50	01	09	0FFF	0000	highLow limit	1	4095	0
117	75	enabled	51	01	09	0000	0000	Expected states	1	0	0
118	76	enabled	52	01	09	8028	7FD7	highLow limit	1	32808	32727
119	77	disabled	53	01	09	80A3	7F5C	highLow limit	1	32931	32604
120	78	disabled	54	01	09	80A3	7F5C	highLow limit	1	32931	32604
121	79	enabled	55	01	09	D4DB	C0DA	highLow limit	1	54491	49370
122	7A	enabled	56	01	09	D630	C0DA	highLow limit	1	54832	49370
123	7B	enabled	57	01	09	D630	BE2F	highLow limit	1	54832	48687
124	7C	enabled	58	01	09	D4DB	C385	highLow limit	1	54491	50053
125	7D	enabled	59	A	09	D230	BE2F	highLow limit	10	53808	48687
126	7E	enabled	5A	A	09	D230	BE2F	highLow limit	10	53808	48687
127	7F	disabled	5B	01	09	DB86	BF85	highLow limit	1	56198	49029
128	80	disabled	5C	01	09	DB86	BF85	highLow limit	1	56198	49029
129	81	disabled	5D	01	09	DB86	BF85	highLow limit	1	56198	49029
130	82	disabled	5E	01	09	DB86	BF85	highLow limit	1	56198	49029
131	83	disabled	5F	01	09	C51B	AFF6	highLow limit	1	50459	45046
132	84	disabled	60	01	09	C521	AFFA	highLow limit	1	50465	45050
133	85	disabled	61	01	09	EAD9	E2A1	highLow limit	1	60121	58017
134	86	disabled	62	01	09	EAEA	E2B1	highLow limit	1	60138	58033
135	87	disabled	63	01	09	1D2A	14EE	highLow limit	1	7466	5338
136	88	disabled	64	01	09	1D17	14D8	highLow limit	1	7447	5336
137	89	disabled	65	01	09	EC03	DE03	highLow limit	1	60419	56835
138	8A	disabled	66	01	09	EC1C	DE18	highLow limit	1	60444	56856
139	8B	disabled	67	01	09	ED0E	E05E	highLow limit	1	60686	57438
140	8C	disabled	68	01	09	ED0F	E05F	highLow limit	1	60687	57439
141	8D	disabled	69	01	09	EFB2	DE69	highLow limit	1	61362	56937
142	8E	disabled	6A	01	09	EF98	DE53	highLow limit	1	61336	56915
143	8F	disabled	6B	01	09	EA1A	DE17	highLow limit	1	59930	56855
144	90	disabled	6C	01	09	EA15	DE12	highLow limit	1	59925	56850
145	91	enabled	6D	01	09	EA23	DE1F	highLow limit	1	59939	56863
146	92	enabled	6E	01	09	F1E2	ED6B	highLow limit	1	61922	60779
147	93	enabled	6F	01	09	F10F	ECA0	highLow limit	1	61711	60576
148	94	enabled	70	01	09	F123	ECB3	highLow limit	1	61731	60595
149	95	enabled	71	01	09	F201	ED89	highLow limit	1	61953	60809
150	96	enabled	72	01	09	F17C	ED09	highLow limit	1	61820	60681

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MONITORING **Table 7.3** HTR_WT0

Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101											
102							0047				71
103											
104											
105											
106											
107											
108											
109											
110											
111											
112						FEB1	1947			65201	6471
113											
114											
115											
116											
117											
118											
119											
120											
121											
122											
123											
124											
125											
126											
127											
128											
129											
130											
131											
132											
133											
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135											
136											
137											
138											
139											
140											
141											
142											
143											
144											
145											
146											
147											
148											
149											
150											

MONITORING **Table 8.3** HTR_WT1

Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101											
102							0047				71
103											
104											
105											
106											
107											
108											
109											
110											
111											
112						FEB1	1947			65201	6471
113											
114											
115											
116											
117											
118											
119											
120											
121											
122											
123											
124											
125											
126											
127											
128											
129											
130											
131											
132											
133											
134											
135											
136											
137											
138											
139											
140											
141											
142											
143											
144											
145											
146											
147											
148											
149											
150											

MONITORING **Table 9.3** HTR_WT2

Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101											
102							0047				71
103											
104											
105											
106											
107											
108											
109											
110											
111											
112						FEB1	1947			65201	6471
113											
114											
115											
116											
117											
118											
119											
120											
121											
122											
123											
124											
125											
126											
127											
128											
129											
130											
131											
132											
133											
134											
135											
136											
137											
138											
139											
140											
141											
142											
143											
144											
145											
146											
147											
148											
149											
150											

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Table 10.3

	MONITORING		PTC_WAIT					
Parameter ID DEC	Checking State	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length
101	disabled	65	44	01	A	0000	FFFF	highlow limit
102	enabled	66	04	01	A	0077	0077	Expected states
103	disabled	67	44	01	A	0000	FFFF	highlow limit
104	disabled	68	44	01	A	0000	FFFF	highlow limit
105	disabled	69	44	01	A	0000	FFFF	highlow limit
106	disabled	6A	44	01	A	0000	FFFF	highlow limit
107	disabled	6B	44	01	A	0000	FFFF	highlow limit
108	disabled	6C	04	01	A	0000	FFFF	Expected states
109	disabled	6D	44	01	A	0000	FFFF	highlow limit
110	disabled	6E	44	01	A	0000	FFFF	highlow limit
111	disabled	6F	44	01	A	0000	FFFF	highlow limit
112	disabled	70	44	01	A	0000	FFFF	highlow limit
113	disabled	71	04	01	A	0000	FFFF	Expected states
114	disabled	72	44	01	A	0000	FFFF	highlow limit
115	disabled	73	44	01	A	0000	FFFF	highlow limit
116	disabled	74	44	01	A	0000	FFFF	highlow limit
117	disabled	75	04	01	A	0000	FFFF	Expected states
118	disabled	76	44	01	A	0000	FFFF	highlow limit
119	disabled	77	44	01	A	0000	FFFF	highlow limit
120	disabled	78	44	01	A	0000	FFFF	highlow limit
121	disabled	79	44	01	A	0000	FFFF	highlow limit
122	disabled	7A	44	01	A	0000	FFFF	highlow limit
123	disabled	7B	44	01	A	0000	FFFF	highlow limit
124	disabled	7C	44	01	A	0000	FFFF	highlow limit
125	disabled	7D	44	01	A	0000	FFFF	highlow limit
126	disabled	7E	44	01	A	0000	FFFF	highlow limit
127	disabled	7F	44	01	A	0000	FFFF	highlow limit
128	disabled	80	44	01	A	0000	FFFF	highlow limit
129	disabled	81	44	01	A	0000	FFFF	highlow limit
130	disabled	82	44	01	A	0000	FFFF	highlow limit
131	disabled	83	44	01	A	0000	FFFF	highlow limit
132	disabled	84	44	01	A	0000	FFFF	highlow limit
133	disabled	85	44	01	A	0000	FFFF	highlow limit
134	disabled	86	44	01	A	0000	FFFF	highlow limit
135	disabled	87	44	01	A	0000	FFFF	highlow limit
136	disabled	88	44	01	A	0000	FFFF	highlow limit
137	disabled	89	44	01	A	0000	FFFF	highlow limit
138	disabled	8A	44	01	A	0000	FFFF	highlow limit
139	disabled	8B	44	01	A	0000	FFFF	highlow limit
140	disabled	8C	44	01	A	0000	FFFF	highlow limit
141	disabled	8D	44	01	A	0000	FFFF	highlow limit
142	disabled	8E	44	01	A	0000	FFFF	highlow limit
143	disabled	8F	44	01	A	0000	FFFF	highlow limit
144	disabled	90	44	01	A	0000	FFFF	highlow limit
145	disabled	91	44	01	A	0000	FFFF	highlow limit
146	disabled	92	44	01	A	0000	FFFF	highlow limit
147	disabled	93	44	01	A	0000	FFFF	highlow limit
148	disabled	94	44	01	A	0000	FFFF	highlow limit
149	disabled	95	44	01	A	0000	FFFF	highlow limit
150	disabled	96	44	01	A	0000	FFFF	highlow limit

| | | | | |

MONITORING Table 11.3

	Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Heater: Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101												
102								0047				71
103												
104												
105												
106							FFC0 0000				65472	0
107							FFFF 0900				65535	2496
108												
109												
110												
111												
112							FEB1 1947				65201	6471
113												
114												
115												
116												
117												
118												
119												
120												
121												
122												
123												
124												
125												
126												
127												
128												
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130												
131												
132												
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134												
135												
136												
137												
138												
139												
140												
141												
142												
143												
144												
145												
146												
147												
148												
149												
150												

MONITORING Table 12.3

	Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Idle: Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101												
102								0047				71
103												
104												
105												
106							FFC0 0000				65472	0
107							FFFF 0900				65535	2496
108												
109												
110												
111												
112							FEB1 1947				65201	6471
113												
114												
115												
116												
117												
118												
119												
120												
121												
122												
123												
124												
125												
126												
127												
128												
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135												
136												
137												
138												
139												
140												
141												
142												
143												
144												
145												
146												
147												
148												
149												
150												

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MONITORING Checking State — **Table 13.3** — **State**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	enabled	65	44	01	D	8002	7FFE	highLow limit	Expected states	1	32770	32766
102	enabled	66	04	01	D	0007	0007	Expected states	1	7	7
103	enabled	67	44	A	D	CEA2	0E31	highLow limit	10	52898	3633
104	enabled	68	44	A	D	CE97	0E28	highLow limit	10	52887	3624
105	enabled	69	44	A	D	CE92	0E2E	highLow limit	10	52882	3630
106	enabled	6A	44	A	D	FAAB	05E8	highLow limit	10	64171	1512
107	enabled	6B	44	A	D	FA94	05BB	highLow limit	10	64148	1467
108	enabled	6C	04	01	D	0001	0001	Expected states	1	1	1
109	enabled	6D	44	01	D	0FFF	0000	highLow limit	1	4095	0
110	enabled	6E	44	01	D	0FFF	0000	highLow limit	1	4095	0
111	enabled	6F	44	01	D	0FFF	0000	highLow limit	1	4095	0
112	enabled	70	44	A	D	FAC3	14F7	highLow limit	10	64195	5367
113	enabled	71	04	01	D	0001	0001	Expected states	1	1	1
114	enabled	72	44	01	D	0FFF	0000	highLow limit	1	4095	0
115	enabled	73	44	01	D	0FFF	0000	highLow limit	1	4095	0
116	enabled	74	44	01	D	0FFF	0000	highLow limit	1	4095	0
117	enabled	75	04	01	D	0000	0000	Expected states	1	0	0
118	enabled	76	44	01	D	8028	7F07	highLow limit	1	32808	32727
119	disabled	77	44	01	D	80A3	7F5C	highLow limit	1	32931	32604
120	disabled	78	44	01	D	80A3	7F5C	highLow limit	1	32931	32604
121	enabled	79	44	01	D	D4DB	C0DA	highLow limit	1	54491	49370
122	enabled	7A	44	01	D	D630	C0DA	highLow limit	1	54832	49370
123	enabled	7B	44	01	D	D630	BE2F	highLow limit	1	54832	48687
124	enabled	7C	44	A	D	D4DB	C385	highLow limit	1	54491	50053
125	enabled	7D	44	A	D	D230	BE2F	highLow limit	10	53808	48687
126	enabled	7E	44	A	D	D230	BE2F	highLow limit	10	53808	48687
127	disabled	7F	44	01	D	DB86	BF85	highLow limit	1	56198	49029
128	disabled	80	44	01	D	DB86	BF85	highLow limit	1	56198	49029
129	disabled	81	44	01	D	DB86	BF85	highLow limit	1	56198	49029
130	disabled	82	44	01	D	DB86	BF85	highLow limit	1	56198	49029
131	disabled	83	44	01	D	C51B	AFF6	highLow limit	1	50459	45046
132	disabled	84	44	01	D	C521	AFFA	highLow limit	1	50465	45050
133	disabled	85	44	01	D	EAD9	E2A1	highLow limit	1	60121	58017
134	disabled	86	44	01	D	EAEA	E2B1	highLow limit	1	60138	58033
135	disabled	87	44	01	D	1D2A	14EE	highLow limit	1	7466	5338
136	disabled	88	44	01	D	1D17	14D8	highLow limit	1	7447	5336
137	disabled	89	44	01	D	EC03	DE03	highLow limit	1	60419	56835
138	disabled	8A	44	01	D	EC1C	DE18	highLow limit	1	60444	56856
139	disabled	8B	44	01	D	ED0E	E05E	highLow limit	1	60686	57438
140	disabled	8C	44	01	D	ED0F	E05F	highLow limit	1	60687	57439
141	disabled	8D	44	01	D	EFB2	DE69	highLow limit	1	61362	56937
142	disabled	8E	44	01	D	EF98	DE53	highLow limit	1	61336	56915
143	disabled	8F	44	01	D	EA1A	DE17	highLow limit	1	59930	56855
144	disabled	90	44	01	D	EA15	DE12	highLow limit	1	59925	56850
145	enabled	91	44	01	D	EA23	DE1F	highLow limit	1	59939	56863
146	enabled	92	44	01	D	F1E2	ED6B	highLow limit	1	61922	60779
147	enabled	93	44	01	D	F10F	ECA0	highLow limit	1	61711	60576
148	enabled	94	44	01	D	F123	ECB3	highLow limit	1	61731	60395
149	enabled	95	44	01	D	F201	ED89	highLow limit	1	61953	60809
150	enabled	96	44	01	D	F17C	ED09	highLow limit	1	61820	60681

MONITORING Checking State — **Table 14.3** — **SPARE_1**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	disabled	65	44	01	E	0000	FFFF	highLow limit	1	0	65535
102	enabled	66	04	01	E	0077	0077	Expected states	1	119	119
103	disabled	67	44	01	E	0000	FFFF	highLow limit	1	0	65535
104	disabled	68	44	01	E	0000	FFFF	highLow limit	1	0	65535
105	disabled	69	44	01	E	0000	FFFF	highLow limit	1	0	65535
106	disabled	6A	44	01	E	0000	FFFF	highLow limit	1	0	65535
107	disabled	6B	44	01	E	0000	FFFF	highLow limit	1	0	65535
108	disabled	6C	04	01	E	0000	FFFF	Expected states	1	0	65535
109	disabled	6D	44	01	E	0000	FFFF	highLow limit	1	0	65535
110	disabled	6E	44	01	E	0000	FFFF	highLow limit	1	0	65535
111	disabled	6F	44	01	E	0000	FFFF	highLow limit	1	0	65535
112	disabled	70	44	01	E	0000	FFFF	highLow limit	1	0	65535
113	disabled	71	04	01	E	0000	FFFF	Expected states	1	0	65535
114	disabled	72	44	01	E	0000	FFFF	highLow limit	1	0	65535
115	disabled	73	44	01	E	0000	FFFF	highLow limit	1	0	65535
116	disabled	74	44	01	E	0000	FFFF	highLow limit	1	0	65535
117	disabled	75	04	01	E	0000	FFFF	Expected states	1	0	65535
118	disabled	76	44	01	E	0000	FFFF	highLow limit	1	0	65535
119	disabled	77	44	01	E	0000	FFFF	highLow limit	1	0	65535
120	disabled	78	44	01	E	0000	FFFF	highLow limit	1	0	65535
121	disabled	79	44	01	E	0000	FFFF	highLow limit	1	0	65535
122	disabled	7A	44	01	E	0000	FFFF	highLow limit	1	0	65535
123	disabled	7B	44	01	E	0000	FFFF	highLow limit	1	0	65535
124	disabled	7C	44	01	E	0000	FFFF	highLow limit	1	0	65535
125	disabled	7D	44	01	E	0000	FFFF	highLow limit	1	0	65535
126	disabled	7E	44	01	E	0000	FFFF	highLow limit	1	0	65535
127	disabled	7F	44	01	E	0000	FFFF	highLow limit	1	0	65535
128	disabled	80	44	01	E	0000	FFFF	highLow limit	1	0	65535
129	disabled	81	44	01	E	0000	FFFF	highLow limit	1	0	65535
130	disabled	82	44	01	E	0000	FFFF	highLow limit	1	0	65535
131	disabled	83	44	01	E	0000	FFFF	highLow limit	1	0	65535
132	disabled	84	44	01	E	0000	FFFF	highLow limit	1	0	65535
133	disabled	85	44	01	E	0000	FFFF	highLow limit	1	0	65535
134	disabled	86	44	01	E	0000	FFFF	highLow limit	1	0	65535
135	disabled	87	44	01	E	0000	FFFF	highLow limit	1	0	65535
136	disabled	88	44	01	E	0000	FFFF	highLow limit	1	0	65535
137	disabled	89	44	01	E	0000	FFFF	highLow limit	1	0	65535
138	disabled	8A	44	01	E	0000	FFFF	highLow limit	1	0	65535
139	disabled	8B	44	01	E	0000	FFFF	highLow limit	1	0	65535
140	disabled	8C	44	01	E	0000	FFFF	highLow limit	1	0	65535
141	disabled	8D	44	01	E	0000	FFFF	highLow limit	1	0	65535
142	disabled	8E	44	01	E	0000	FFFF	highLow limit	1	0	65535
143	disabled	8F	44	01	E	0000	FFFF	highLow limit	1	0	65535
144	disabled	90	44	01	E	0000	FFFF	highLow limit	1	0	65535
145	disabled	91	44	01	E	0000	FFFF	highLow limit	1	0	65535
146	disabled	92	44	01	E	0000	FFFF	highLow limit	1	0	65535
147	disabled	93	44	01	E	0000	FFFF	highLow limit	1	0	65535
148	disabled	94	44	01	E	0000	FFFF	highLow limit	1	0	65535
149	disabled	95	44	01	E	0000	FFFF	highLow limit	1	0	65535
150	disabled	96	44	01	E	0000	FFFF	highLow limit	1	0	65535

MONITORING Checking State — **Table 15.3** — **SPARE_2**

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101	disabled	65	44	01	F	0000	FFFF	highLow limit	1	0	65535
102	disabled	66	04	01	F	0000	FFFF	Expected states	1	0	65535
103	disabled	67	44	01	F	0000	FFFF	highLow limit	1	0	65535
104	disabled	68	44	01	F	0000	FFFF	highLow limit	1	0	65535
105	disabled	69	44	01	F	0000	FFFF	highLow limit	1	0	65535
106	disabled	6A	44	01	F	0000	FFFF	highLow limit	1	0	65535
107	disabled	6B	44	01	F	0000	FFFF	highLow limit	1	0	65535
108	disabled	6C	04	01	F	0000	FFFF	Expected states	1	0	65535
109	disabled	6D	44	01	F	0000	FFFF	highLow limit	1	0	65535
110	disabled	6E	44	01	F	0000	FFFF	highLow limit	1	0	65535
111	disabled	6F	44	01	F	0000	FFFF	highLow limit	1	0	65535
112	disabled	70	44	01	F	0000	FFFF	highLow limit	1	0	65535
113	disabled	71	04	01	F	0000	FFFF	Expected states	1	0	65535
114	disabled	72	44	01	F	0000	FFFF	highLow limit	1	0	65535
115	disabled	73	44	01	F	0000	FFFF	highLow limit	1	0	65535
116	disabled	74	44	01	F	0000	FFFF	highLow limit	1	0	65535
117	disabled	75	04	01	F	0000	FFFF	Expected states	1	0	65535
118	disabled	76	44	01	F	0000	FFFF	highLow limit	1	0	65535
119	disabled	77	44	01	F	0000	FFFF	highLow limit	1	0	65535
120	disabled	78	44	01	F	0000	FFFF	highLow limit	1	0	65535
121	disabled	79	44	01	F	0000	FFFF	highLow limit	1	0	65535
122	disabled	7A	44	01	F	0000	FFFF	highLow limit	1	0	65535
123	disabled	7B	44	01	F	0000	FFFF	highLow limit	1	0	65535
124	disabled	7C	44	01	F	0000	FFFF	highLow limit	1	0	65535
125	disabled	7D	44	01	F	0000	FFFF	highLow limit	1	0	65535
126	disabled	7E	44	01	F	0000	FFFF	highLow limit	1	0	65535
127	disabled	7F	44	01	F	0000	FFFF	highLow limit	1	0	65535
128	disabled	80	44	01	F	0000	FFFF	highLow limit	1	0	65535
129	disabled	81	44	01	F	0000	FFFF	highLow limit	1	0	65535
130	disabled	82	44	01	F	0000	FFFF	highLow limit	1	0	65535
131	disabled	83	44	01	F	0000	FFFF	highLow limit	1	0	65535
132	disabled	84	44	01	F	0000	FFFF	highLow limit	1	0	65535
133	disabled	85	44	01	F	0000	FFFF	highLow limit	1	0	65535
134	disabled	86	44	01	F	0000	FFFF	highLow limit	1	0	65535
135	disabled	87	44	01	F	0000	FFFF	highLow limit	1	0	65535
136	disabled	88	44	01	F	0000	FFFF	highLow limit	1	0	65535
137	disabled	89	44	01	F	0000	FFFF	highLow limit	1	0	65535
138	disabled	8A	44	01	F	0000	FFFF	highLow limit	1	0	65535
139	disabled	8B	44	01	F	0000	FFFF	highLow limit	1	0	65535
140	disabled	8C	44	01	F	0000	FFFF	highLow limit	1	0	65535
141	disabled	8D	44	01	F	0000	FFFF	highLow limit	1	0	65535
142	disabled	8E	44	01	F	0000	FFFF	highLow limit	1	0	65535
143	disabled	8F	44	01	F	0000	FFFF	highLow limit	1	0	65535
144	disabled	90	44	01	F	0000	FFFF	highLow limit	1	0	65535
145	disabled	91	44	01	F	0000	FFFF	highLow limit	1	0	65535
146	disabled	92	44	01	F	0000	FFFF	highLow limit	1	0	65535
147	disabled	93	44	01	F	0000	FFFF	highLow limit	1	0	65535
148	disabled	94	44	01	F	0000	FFFF	highLow limit	1	0	65535
149	disabled	95	44	01	F	0000	FFFF	highLow limit	1	0	65535
150	disabled	96	44	01	F	0000	FFFF	highLow limit	1	0	65535

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MONITORING

Table 13.3

Parameter ID DEC	ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
101											
102							0047				71
103											
104											
105											
106						FFC0	0000			65472	0
107						FFFF	09C0			65535	2496
108											
109											
110											
111											
112						FEB1	1947			65201	6471
113											
114											
115											
116											
117											
118											
119											
120											
121											
122											
123											
124											
125											
126											
127											
128											
129											
130											
131											
132											
133											
134											
135											
136											
137											
138											
139											
140											
141											
142											
143											
144											
145											
146											
147											
148											
149											
150											

EEPROM – ICU_SW V. 2.03

MONITORING **Table 1.4**

Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & μ-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Standbye: Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
151	disabled	97	44 01 01 0000	FFFF	highllow limit	1	0	65535	1	1	1
152	disabled	98	44 01 01 0000	FFFF	highllow limit	1	0	65535	1	1	1
153	disabled	99	44 01 01 0000	FFFF	highllow limit	1	0	65535	1	1	1
154	disabled	9A	44 01 01 0000	FFFF	highllow limit	1	0	65535	1	1	1
155	disabled	9B	44 01 01 0000	FFFF	highllow limit	1	0	65535	1	1	1
156	disabled	9C	44 01 01 0000	FFFF	highllow limit	1	0	65535	1	1	1
157	disabled	9D	44 01 01 0000	FFFF	highllow limit	1	0	65535	1	1	1
158	disabled	9E	44 01 01 0000	FFFF	highllow limit	1	0	65535	1	1	1
159	disabled	9F	44 01 01 0000	FFFF	highllow limit	1	0	65535	1	1	1
160	disabled	A0	04 01 01 0000	0000	Expected states	1	0	65535	1	1	1
161	disabled	A1	04 01 01 0000	0000	Expected states	1	0	65535	1	1	1
162	enabled	A2	04 01 01 000C	000C	Expected states	1	12	12	1	1	1
163	enabled	A3	04 00 01 0002	0002	Expected states	0	2	2	1	1	1
164	disabled	A4	04 00 01 0000	FFFF	Expected states	0	0	65535	1	1	1
165	enabled	A5	04 01 01 0001	0001	Expected states	1	1	1	1	1	1
166	enabled	A6	04 01 01 0001	0001	Expected states	1	1	1	1	1	1
167	enabled	A7	04 00 01 0002	0002	Expected states	0	2	2	1	1	1
168	enabled	A8	04 00 01 0002	0002	Expected states	0	2	2	1	1	1
169	enabled	A9	04 01 01 0001	0001	Expected states	1	1	1	1	1	1

MONITORING **Table 2.4**

Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Decontamination: Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
151	disabled	97	44 01 02 0000	FFFF	highllow limit	1	0	65535	1	1	1
152	disabled	98	44 01 02 0000	FFFF	highllow limit	1	0	65535	1	1	1
153	disabled	99	44 01 02 0000	FFFF	highllow limit	1	0	65535	1	1	1
154	disabled	9A	44 01 02 0000	FFFF	highllow limit	1	0	65535	1	1	1
155	disabled	9B	44 01 02 0000	FFFF	highllow limit	1	0	65535	1	1	1
156	disabled	9C	44 01 02 0000	FFFF	highllow limit	1	0	65535	1	1	1
157	disabled	9D	44 01 02 0000	FFFF	highllow limit	1	0	65535	1	1	1
158	disabled	9E	44 01 02 0000	FFFF	highllow limit	1	0	65535	1	1	1
159	disabled	9F	44 01 02 0000	FFFF	highllow limit	1	0	65535	1	1	1
160	disabled	A0	04 01 02 0000	FFFF	Expected states	1	0	65535	1	1	1
161	disabled	A1	04 01 02 0000	FFFF	Expected states	1	0	65535	1	1	1
162	enabled	A2	04 01 02 000E	000E	Expected states	1	14	14	1	1	1
163	enabled	A3	04 00 02 0001	0001	Expected states	0	1	1	1	1	1
164	disabled	A4	04 01 02 0000	FFFF	Expected states	1	0	65535	1	1	1
165	enabled	A5	04 01 02 0001	0001	Expected states	1	1	1	1	1	1
166	enabled	A6	04 01 02 0001	0001	Expected states	1	1	1	1	1	1
167	enabled	A7	04 00 02 0002	0002	Expected states	0	2	2	1	1	1
168	enabled	A8	04 00 02 0002	0002	Expected states	0	2	2	1	1	1
169	enabled	A9	04 01 02 0001	0001	Expected states	1	1	1	1	1	1

MONITORING **Table 3.4**

Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Standby_Refuse_1: Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
151	disabled	97	44 01 03 0000	FFFF	highllow limit	1	0	65535	1	0	65535
152	disabled	98	44 01 03 0000	FFFF	highllow limit	1	0	65535	1	0	65535
153	disabled	99	44 01 03 0000	FFFF	highllow limit	1	0	65535	1	0	65535
154	disabled	9A	44 01 03 0000	FFFF	highllow limit	1	0	65535	1	0	65535
155	disabled	9B	44 01 03 0000	FFFF	highllow limit	1	0	65535	1	0	65535
156	disabled	9C	44 01 03 0000	FFFF	highllow limit	1	0	65535	1	0	65535
157	disabled	9D	44 01 03 0000	FFFF	highllow limit	1	0	65535	1	0	65535
158	disabled	9E	44 01 03 0000	FFFF	highllow limit	1	0	65535	1	0	65535
159	disabled	9F	44 01 03 0000	FFFF	highllow limit	1	0	65535	1	0	65535
160	disabled	A0	04 01 03 0000	FFFF	Expected states	1	0	65535	1	0	65535
161	disabled	A1	04 01 03 0000	FFFF	Expected states	1	0	65535	1	0	65535
162	enabled	A2	04 01 03 000A	000A	Expected states	1	10	10	1	10	10
163	enabled	A3	04 01 03 0002	0002	Expected states	1	2	2	1	2	2
164	disabled	A4	04 00 03 0000	FFFF	Expected states	1	0	65535	1	0	65535
165	enabled	A5	04 01 03 0001	0001	Expected states	1	1	1	1	1	1
166	enabled	A6	04 01 03 0001	0001	Expected states	1	1	1	1	1	1
167	enabled	A7	04 01 03 0002	0002	Expected states	1	2	2	1	2	2
168	enabled	A8	04 01 03 0002	0002	Expected states	1	2	2	1	2	2
169	enabled	A9	04 01 03 0001	0001	Expected states	1	1	1	1	1	1

no modifications to the contents of the tables on the
opposite side as burned in EEPROM – ICU_SW V.2.03

EEPROM – ICU_SW V. 2.03

MONITORING **Table 4.4**

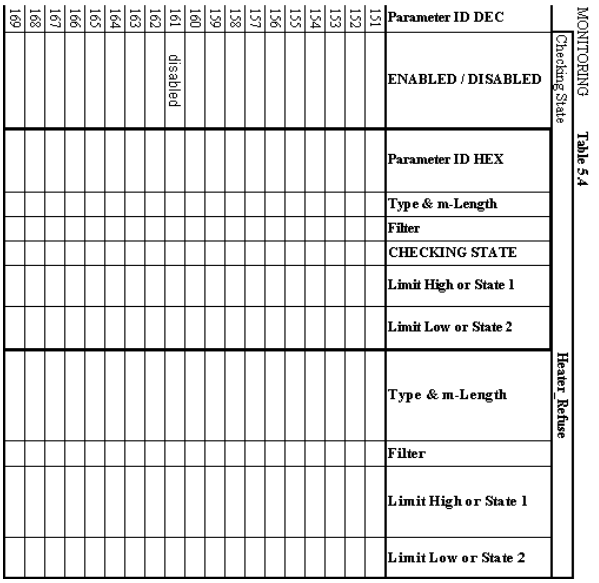
Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Standby_Refuse_E: Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
151	disabled	97	44	01	04	0000	FFFF	highlow limit	1	0	65535
152	disabled	98	44	01	04	0000	FFFF	highlow limit	1	0	65535
153	disabled	99	44	01	04	0000	FFFF	highlow limit	1	0	65535
154	disabled	9A	44	01	04	0000	FFFF	highlow limit	1	0	65535
155	disabled	9B	44	01	04	0000	FFFF	highlow limit	1	0	65535
156	disabled	9C	44	01	04	0000	FFFF	highlow limit	1	0	65535
157	disabled	9D	44	01	04	0000	FFFF	highlow limit	1	0	65535
158	disabled	9E	44	01	04	0000	FFFF	highlow limit	1	0	65535
159	disabled	9F	44	01	04	0000	FFFF	highlow limit	1	0	65535
160	disabled	A0	04	01	04	0000	FFFF	highlow limit	1	0	65535
161	disabled	A1	04	01	04	0000	FFFF	highlow limit	1	0	65535
162	enabled	A2	04	01	04	0009	0009	Expected states	1	9	9
163	enabled	A3	04	01	04	0002	0002	Expected states	1	2	2
164	disabled	A4	04	01	04	0000	FFFF	highlow limit	1	0	65535
165	enabled	A5	04	01	04	0001	0001	Expected states	1	1	1
166	enabled	A6	04	00	04	0002	0002	Expected states	0	2	2
167	enabled	A7	04	01	04	0000	FFFF	highlow limit	1	0	65535
168	enabled	A8	04	01	04	0002	0002	Expected states	1	2	2
169	enabled	A9	04	01	04	0001	0001	Expected states	1	1	1

MONITORING **Table 5.4**

Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Heater_Refuse: Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
151	disabled	97	44	01	05	0000	FFFF	highlow limit	1	0	65535
152	disabled	98	44	01	05	0000	FFFF	highlow limit	1	0	65535
153	disabled	99	44	01	05	0000	FFFF	highlow limit	1	0	65535
154	disabled	9A	44	01	05	0000	FFFF	highlow limit	1	0	65535
155	disabled	9B	44	01	05	0000	FFFF	highlow limit	1	0	65535
156	disabled	9C	44	01	05	0000	FFFF	highlow limit	1	0	65535
157	disabled	9D	44	01	05	0000	FFFF	highlow limit	1	0	65535
158	disabled	9E	44	01	05	0000	FFFF	highlow limit	1	0	65535
159	disabled	9F	44	01	05	0000	FFFF	highlow limit	1	0	65535
160	enabled	A0	04	01	05	0000	0000	Expected states	1	0	0
161	enabled	A1	04	01	05	0000	0000	Expected states	1	0	0
162	enabled	A2	04	01	05	000B	000B	Expected states	1	11	11
163	enabled	A3	04	01	05	0002	0002	Expected states	1	2	2
164	enabled	A4	04	01	05	0001	0001	Expected states	1	1	1
165	enabled	A5	04	01	05	0001	0001	Expected states	1	1	1
166	enabled	A6	04	01	05	0001	0001	Expected states	1	1	1
167	enabled	A7	04	01	05	0001	0001	Expected states	1	1	1
168	enabled	A8	04	01	05	0001	0001	Expected states	1	1	1
169	enabled	A9	04	01	05	0001	0001	Expected states	1	1	1

MONITORING **Table 6.4**

Parameter ID DEC	Checking State: ENABLED / DISABLED	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Trans: Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
151	disabled	97	44	01	06	F280	EBD5	highlow limit	1	62080	60373
152	disabled	98	44	01	06	F27B	EBD0	highlow limit	1	62075	60368
153	enabled	99	44	01	06	BDD9	7D36	highlow limit	1	48601	32054
154	enabled	9A	44	01	06	F63F	794E	highlow limit	1	63039	31054
155	disabled	9B	44	01	06	E13E	7F85	highlow limit	1	57662	32645
156	disabled	9C	44	01	06	E10E	7F85	highlow limit	1	57614	32645
157	enabled	9D	44	01	06	DC1C	0000	highlow limit	1	3100	0
158	enabled	9E	44	01	06	0007	0000	highlow limit	1	7	0
159	disabled	9F	44	01	06	0000	FFFF	highlow limit	1	0	65535
160	enabled	A0	04	01	06	0000	0000	Expected states	1	0	0
161	enabled	A1	04	01	06	0000	0000	Expected states	1	0	0
162	enabled	A2	04	01	06	0010	0010	Expected states	1	16	16
163	enabled	A3	04	01	06	0002	0002	Expected states	1	2	2
164	enabled	A4	04	01	06	0001	0001	Expected states	1	1	1
165	enabled	A5	04	01	06	0001	0001	Expected states	1	1	1
166	enabled	A6	04	01	06	0001	0001	Expected states	1	1	1
167	enabled	A7	04	01	06	0001	0001	Expected states	1	1	1
168	enabled	A8	04	01	06	0001	0001	Expected states	1	1	1
169	enabled	A9	04	01	06	0001	0001	Expected states	1	1	1



169	168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	Parameter ID DEC	MONITORING
								disabled											ENABLED / DISABLED	Checking State
																			Parameter ID HEX	Table 5.4
																			Type & m-Length	
																			Filter	
																			CHECKING STATE	
																			Limit High or State 1	
																			Limit Low or State 2	
																			Type & m-Length	Heater_Refuse
																			Filter	
																			Limit High or State 1	
																			Limit Low or State 2	

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MONITORING **Table 7.4**

Parameter ID DEC	Checking State: ENABLED / DISABLED	HTR_WT0: Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
151	disabled	97	44	01	07	F280	EBD5	high/low limit	1	62080	60373
152	disabled	98	44	01	07	F27B	EBD0	high/low limit	1	62075	60368
153	enabled	99	44	01	07	842D	7D36	high/low limit	1	33837	32054
154	enabled	9A	44	01	07	86B1	794E	high/low limit	1	34481	31054
155	disabled	9B	44	01	07	807A	7F85	high/low limit	1	32890	32645
156	disabled	9C	44	01	07	807A	7F85	high/low limit	1	32890	32645
157	enabled	9D	44	01	07	0000	0000	high/low limit	1	0	0
158	disabled	9E	44	01	07	0000	FFFF	high/low limit	1	0	65535
159	disabled	9F	44	01	07	0000	FFFF	high/low limit	1	0	65535
160	enabled	A0	04	01	07	0000	0000	Expected states	1	0	0
161	enabled	A1	04	01	07	0000	0000	Expected states	1	0	0
162	enabled	A2	04	01	07	000D	000D	Expected states	1	13	13
163	enabled	A3	04	01	07	0002	0002	Expected states	1	2	2
164	enabled	A4	04	01	07	0001	0001	Expected states	1	1	1
165	enabled	A5	04	01	07	0001	0001	Expected states	1	1	1
166	enabled	A6	04	01	07	0001	0001	Expected states	1	1	1
167	enabled	A7	04	01	07	0001	0001	Expected states	1	1	1
168	enabled	A8	04	01	07	0001	0001	Expected states	1	1	1
169	enabled	A9	04	01	07	0001	0001	Expected states	1	1	1

MONITORING **Table 8.4**

Parameter ID DEC	Checking State: ENABLED / DISABLED	HTR_WT1: Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
151	disabled	97	44	01	08	F280	EBD5	high/low limit	1	62080	60373
152	disabled	98	44	01	08	F27B	EBD0	high/low limit	1	62075	60368
153	enabled	99	44	01	08	842D	7D36	high/low limit	1	33837	32054
154	enabled	9A	44	01	08	86B1	794E	high/low limit	1	34481	31054
155	disabled	9B	44	01	08	807A	7F85	high/low limit	1	32890	32645
156	disabled	9C	44	01	08	807A	7F85	high/low limit	1	32890	32645
157	enabled	9D	44	01	08	0C1C	0000	high/low limit	1	3100	0
158	disabled	9E	44	01	08	0000	FFFF	high/low limit	1	0	65535
159	disabled	9F	44	01	08	0000	FFFF	high/low limit	1	0	65535
160	enabled	A0	04	01	08	0000	0000	Expected states	1	0	0
161	enabled	A1	04	01	08	0000	0000	Expected states	1	0	0
162	enabled	A2	04	01	08	000D	000D	Expected states	1	13	13
163	enabled	A3	04	01	08	0002	0002	Expected states	1	2	2
164	enabled	A4	04	01	08	0001	0001	Expected states	1	1	1
165	enabled	A5	04	01	08	0001	0001	Expected states	1	1	1
166	enabled	A6	04	01	08	0001	0001	Expected states	1	1	1
167	enabled	A7	04	01	08	0001	0001	Expected states	1	1	1
168	enabled	A8	04	01	08	0001	0001	Expected states	1	1	1
169	enabled	A9	04	01	08	0001	0001	Expected states	1	1	1

MONITORING **Table 9.4**

Parameter ID DEC	Checking State: ENABLED / DISABLED	HTR_WT2: Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length	Filter	Limit High or State 1	Limit Low or State 2
151	disabled	97	44	01	09	F280	EBD5	high/low limit	1	62080	60373
152	disabled	98	44	01	09	F27B	EBD0	high/low limit	1	62075	60368
153	enabled	99	44	01	09	842D	7D36	high/low limit	1	33837	32054
154	enabled	9A	44	01	09	86B1	794E	high/low limit	1	34481	31054
155	disabled	9B	44	01	09	807A	7F85	high/low limit	1	32890	32645
156	disabled	9C	44	01	09	807A	7F85	high/low limit	1	32890	32645
157	enabled	9D	44	01	09	0C1C	0000	high/low limit	1	3100	0
158	disabled	9E	44	01	09	0000	FFFF	high/low limit	1	0	65535
159	disabled	9F	44	01	09	0000	FFFF	high/low limit	1	0	65535
160	enabled	A0	04	01	09	0000	0000	Expected states	1	0	0
161	enabled	A1	04	01	09	0000	0000	Expected states	1	0	0
162	enabled	A2	04	01	09	000D	000D	Expected states	1	13	13
163	enabled	A3	04	01	09	0002	0002	Expected states	1	2	2
164	enabled	A4	04	01	09	0001	0001	Expected states	1	1	1
165	enabled	A5	04	01	09	0001	0001	Expected states	1	1	1
166	enabled	A6	04	01	09	0001	0001	Expected states	1	1	1
167	enabled	A7	04	01	09	0001	0001	Expected states	1	1	1
168	enabled	A8	04	01	09	0001	0001	Expected states	1	1	1
169	enabled	A9	04	01	09	0001	0001	Expected states	1	1	1

no modifications to the contents of the tables on the opposite side as burned in EEPROM – ICU_SW V.2.03

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MONITORING Table 10.4 PTC_WAIT

Parameter ID DEC	ENABLED / DISABLED (Checking State)	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 2	Limit Low or State 1	Type & m-Length
151	disabled	97	44 01	A	0000	FFFF	0000	high/low limit
152	disabled	7F	44 01	A	0000	FFFF	0000	high/low limit
153	disabled	99	44 01	A	0000	FFFF	0000	high/low limit
154	disabled	9A	44 01	A	0000	FFFF	0000	high/low limit
155	disabled	9B	44 01	A	0000	FFFF	0000	high/low limit
156	disabled	7F	44 01	A	0000	FFFF	0000	high/low limit
157	disabled	9D	44 01	A	0000	FFFF	0000	high/low limit
158	disabled	9E	44 01	A	0000	FFFF	0000	high/low limit
159	disabled	9F	44 01	A	0000	FFFF	0000	high/low limit
160	enabled	A0	04 01	A	0000	0000	0000	Expected states
161	enabled	A1	04 01	A	0000	0000	0000	Expected states
162	enabled	A2	04 01	A	000D	000D	000D	Expected states
163	enabled	A3	04 01	A	0002	0002	0002	Expected states
164	enabled	A4	04 01	A	0001	0001	0001	Expected states
165	enabled	A5	04 01	A	0001	0001	0001	Expected states
166	enabled	A6	04 01	A	0001	0001	0001	Expected states
167	enabled	A7	04 01	A	0001	0001	0001	Expected states
168	enabled	A8	04 01	A	0001	0001	0001	Expected states
169	enabled	A9	04 01	A	0001	0001	0001	Expected states

Filter	Limit High or State 1	Limit Low or State 2
1	0	65535
1	0	65535
1	0	65535
1	0	65535
1	0	65535
1	0	65535
1	0	65535
1	0	65535
1	0	65535
1	0	0
1	0	0
1	13	13
1	2	2
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1

MONITORING Table 11.4 Heater

Parameter ID DEC	ENABLED / DISABLED (Checking State)	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length
151	disabled	97	44 01	B	F280	EBD5	high/low limit	1
152	disabled	98	44 01	B	F27B	EBD0	high/low limit	1
153	enabled	99	44 01	B	842D	7D36	high/low limit	1
154	enabled	9A	44 01	B	86B1	794E	high/low limit	1
155	disabled	9B	44 01	B	807A	7F85	high/low limit	1
156	disabled	9C	44 01	B	807A	7F85	high/low limit	1
157	enabled	9D	44 01	B	0C1C	0000	high/low limit	1
158	enabled	9E	44 01	B	0007	0000	high/low limit	1
159	disabled	9F	44 01	B	0000	FFFF	high/low limit	1
160	enabled	A0	04 01	B	0000	0000	Expected states	1
161	enabled	A1	04 01	B	0000	0000	Expected states	1
162	enabled	A2	04 01	B	000D	000D	Expected states	1
163	enabled	A3	04 01	B	0002	0002	Expected states	1
164	enabled	A4	04 01	B	0001	0001	Expected states	1
165	enabled	A5	04 01	B	0001	0001	Expected states	1
166	enabled	A6	04 01	B	0001	0001	Expected states	1
167	enabled	A7	04 01	B	0001	0001	Expected states	1
168	enabled	A8	04 01	B	0001	0001	Expected states	1
169	enabled	A9	04 01	B	0001	0001	Expected states	1

Limit High or State 1	Limit Low or State 2
62080	60373
62075	60368
33837	32054
34481	31054
32890	32645
32890	32645
3100	0
7	0
0	65535
0	0
0	0
13	13
2	2
1	1
1	1
1	1
1	1
1	1
1	1
1	1

MONITORING Table 12.4 Idle

Parameter ID DEC	ENABLED / DISABLED (Checking State)	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	Type & m-Length
151	disabled	97	44 01	C	F280	EBD5	high/low limit	1
152	disabled	98	44 01	C	F27B	EBD0	high/low limit	1
153	enabled	99	44 01	C	842D	7D36	high/low limit	1
154	enabled	9A	44 01	C	86B1	794E	high/low limit	1
155	disabled	9B	44 01	C	807A	7F85	high/low limit	1
156	disabled	9C	44 01	C	807A	7F85	high/low limit	1
157	enabled	9D	44 01	C	0C1C	0000	high/low limit	1
158	enabled	9E	44 01	C	0007	0000	high/low limit	1
159	disabled	9F	44 01	C	0000	FFFF	high/low limit	1
160	enabled	A0	04 01	C	0000	0000	Expected states	1
161	enabled	A1	04 01	C	0000	0000	Expected states	1
162	enabled	A2	04 01	C	0010	000F	Expected states	1
163	enabled	A3	04 01	C	0002	0002	Expected states	1
164	enabled	A4	04 01	C	0001	0001	Expected states	1
165	enabled	A5	04 01	C	0001	0001	Expected states	1
166	enabled	A6	04 01	C	0001	0001	Expected states	1
167	enabled	A7	04 01	C	0001	0001	Expected states	1
168	enabled	A8	04 01	C	0001	0001	Expected states	1
169	enabled	A9	04 01	C	0001	0001	Expected states	1

Limit High or State 1	Limit Low or State 2
62080	60373
62075	60368
33837	32054
34481	31054
32890	32645
32890	32645
3100	0
7	0
0	65535
0	0
0	0
16	15
2	2
1	1
1	1
1	1
1	1
1	1
1	1
1	1

Table 10.4

	169	168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151		
MONITORING																				Parameter ID DEC	
Checking State									disabled											ENABLED / DISABLED	
PTC_WAIT																				Parameter ID HEX	
																				Type & m-Length	
																				Filter	
																				CHECKING STATE	
																				Limit High or State 1	
																				Limit Low or State 2	
																				Type & m-Length	
																				Filter	
																				Limit High or State 1	
																				Limit Low or State 2	

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MONITORING **Table 13.4**

Parameter ID DEC	ENABLED / DISABLED (Checking State)	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	State: Type & m-Length	State: Filter	State: Limit High or State 1	State: Limit Low or State 2
151	disabled	97	44	01	D	F280	EBD5	highlow limit	1	62080	60373
152	disabled	98	44	01	D	F27B	EBD0	highlow limit	1	62075	60368
153	enabled	99	44	01	D	BDD9	7D36	highlow limit	1	48601	32054
154	enabled	9A	44	01	D	F63F	794E	highlow limit	1	63039	31054
155	disabled	9B	44	01	D	E13E	7F85	highlow limit	1	57662	32645
156	disabled	9C	44	01	D	E10E	7F85	highlow limit	1	57614	32645
157	enabled	9D	44	01	D	DC1C	0000	highlow limit	1	3100	0
158	enabled	9E	44	01	D	0007	0000	highlow limit	1	7	0
159	disabled	9F	44	01	D	0000	FFFF	highlow limit	1	0	65535
160	enabled	A0	04	01	D	0000	0000	Expected states	1	0	0
161	enabled	A1	04	01	D	0000	0000	Expected states	1	0	0
162	enabled	A2	04	01	D	0010	0010	Expected states	1	16	16
163	enabled	A3	04	01	D	0002	0002	Expected states	1	2	2
164	enabled	A4	04	01	D	0001	0001	Expected states	1	1	1
165	enabled	A5	04	01	D	0001	0001	Expected states	1	1	1
166	enabled	A6	04	01	D	0001	0001	Expected states	1	1	1
167	enabled	A7	04	01	D	0001	0001	Expected states	1	1	1
168	enabled	A8	04	01	D	0001	0001	Expected states	1	1	1
169	enabled	A9	04	01	D	0001	0001	Expected states	1	1	1

MONITORING **Table 14.4**

Parameter ID DEC	ENABLED / DISABLED (Checking State)	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	SPARE_1: Type & m-Length	SPARE_1: Filter	SPARE_1: Limit High or State 1	SPARE_1: Limit Low or State 2
151	disabled	97	44	01	E	0000	FFFF	highlow limit	1	0	65535
152	disabled	98	44	01	E	0000	FFFF	highlow limit	1	0	65535
153	disabled	99	44	01	E	0000	FFFF	highlow limit	1	0	65535
154	disabled	9A	44	01	E	0000	FFFF	highlow limit	1	0	65535
155	disabled	9B	44	01	E	0000	FFFF	highlow limit	1	0	65535
156	disabled	9C	44	01	E	0000	FFFF	highlow limit	1	0	65535
157	disabled	9D	44	01	E	0000	FFFF	highlow limit	1	0	65535
158	disabled	9E	44	01	E	0000	FFFF	highlow limit	1	0	65535
159	disabled	9F	44	01	E	0000	FFFF	highlow limit	1	0	65535
160	enabled	A0	04	01	E	0000	0000	Expected states	1	0	0
161	enabled	A1	04	01	E	0000	0000	Expected states	1	0	0
162	enabled	A2	04	01	E	000B	000B	Expected states	1	11	11
163	enabled	A3	04	01	E	0002	0002	Expected states	1	2	2
164	enabled	A4	04	01	E	0001	0001	Expected states	1	1	1
165	enabled	A5	04	01	E	0001	0001	Expected states	1	1	1
166	enabled	A6	04	01	E	0001	0001	Expected states	1	1	1
167	enabled	A7	04	01	E	0001	0001	Expected states	1	1	1
168	enabled	A8	04	01	E	0001	0001	Expected states	1	1	1
169	enabled	A9	04	01	E	0001	0001	Expected states	1	1	1

MONITORING **Table 15.4**

Parameter ID DEC	ENABLED / DISABLED (Checking State)	Parameter ID HEX	Type & m-Length	Filter	CHECKING STATE	Limit High or State 1	Limit Low or State 2	SPARE_2: Type & m-Length	SPARE_2: Filter	SPARE_2: Limit High or State 1	SPARE_2: Limit Low or State 2
151	disabled	97	44	01	F	0000	FFFF	highlow limit	1	0	65535
152	disabled	98	44	01	F	0000	FFFF	highlow limit	1	0	65535
153	disabled	99	44	01	F	0000	FFFF	highlow limit	1	0	65535
154	disabled	9A	44	01	F	0000	FFFF	highlow limit	1	0	65535
155	disabled	9B	44	01	F	0000	FFFF	highlow limit	1	0	65535
156	disabled	9C	44	01	F	0000	FFFF	highlow limit	1	0	65535
157	disabled	9D	44	01	F	0000	FFFF	highlow limit	1	0	65535
158	disabled	9D	44	01	F	0000	FFFF	highlow limit	1	0	65535
159	disabled	9F	44	01	F	0000	FFFF	highlow limit	1	0	65535
160	disabled	A0	04	01	F	0000	0000	Expected states	1	0	0
161	disabled	A1	04	01	F	0000	0000	Expected states	1	0	0
162	enabled	A2	44	01	F	0010	0009	highlow limit	1	16	9
163	disabled	A3	04	01	F	0000	FFFF	Expected states	1	0	65535
164	disabled	A4	04	00	F	0001	0001	Expected states	0	1	1
165	enabled	A5	04	01	F	0001	0001	Expected states	1	1	1
166	disabled	A6	04	01	F	0000	FFFF	Expected states	1	0	65535
167	disabled	A7	04	01	F	0000	FFFF	Expected states	1	0	65535
168	disabled	A8	04	01	F	0000	FFFF	Expected states	1	0	65535
169	enabled	A9	04	01	F	0001	0001	Expected states	1	1	1

MONITORING Table 14.4

169	168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	Parameter ID DEC	
								disabled											ENABLED / DISABLED	Checking State
																			Parameter ID HEX	SPARE_1
																			Type & m-Length	
																			Filter	
																			CHECKING STATE	
																			Limit High or State 1	
																			Limit Low or State 2	
																			Type & m-Length	
																			Filter	
																			Limit High or State 1	
																			Limit Low or State 2	

8.2 Corrective Action Tables

The Engineering tables related hereto are also all organised according to the fault ID-number of the parameter defined. When an ID is cited in any of these tables the identical parameter is designated by this ID.
The following 3 tables are all related to only one Excel source file – Corrective Action Mask - and can be derived therefrom:
1. CA_Mask
2. Enable Autonomous Switching
3. Inhibit Autonomous Switching

In the following these 3 tables are described based on the template of the common Excel source and the common Excel source is depicted.

A further table – CA_matrix – is related to above 3 tables. This tables defines for the identical set of Fault Ids, which CA is assigned to a particular Fault ID as a function of instrument mode or transition to mode. The Excel sheet related hereto is depicted after the picture of the CA_Mask.

8.2.1 CA_Mask Table

This table holds the information, for which Fault IDs a fault handling action shall be enabled/inhibited. The table is limited to 1023 Fault IDs.

Table Template:

MCMD: SET CA_MASK (IOM Reference A6.29)

Columns:

Fault ID:	identifies a particular fault ID for which the fault handling action shall be enabled/inhibited; for details see chapt.10 of RD1; range = 256....1022 (column 1 - DEC; column 3 – HEX); ID 256....1022 are generated in the instrument SW fault ID range 1...255 is mapped on parameter ID range 1...255. Fault ID 0 is default and not checked. With fault ID range 1...255 the MCMDs Enable Autonomous Switching and Inhibit Autonomous Switching are used.
CA_Mask:	specifies whether fault handling for the quoted Fault ID is enabled/inhibited (column 2 – HEX – 0 / 1 -; column 6 – alphanumeric)
SP EID Dec & HEX:	not used for CA_Mask

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

DCR/OCR	Issue date	issued by	Title
e-mail	e-mail 20.08.2002	H.Kröger; Astrium	correct CA-Mask for fault 86 to be disabled

8.2.2 Enable Autonomous Switching Table

This table holds the information, for which Parameter IDs an autonomous switch-down function shall be enabled as a CA in response to out-of-limit conditions of this parameter. The table is limited to 255 parameters. By default CA execution is enabled for all parameters.

Table Template:

MCMD: ENABLE AUTONOMOUS SWITCHING (IOM Reference A6.6)

Columns:

Fault ID: identifies a particular fault ID for which the fault handling action shall be enabled; for details see chapt.10 of RD1; A Fault ID is generated in the ICU as a result of limit checking and/or other detected faults.
Fault ID range 1...255 is mapped on parameter ID range 1...255. Fault ID 0 is default and not checked.
range = 256....1022 not used for this table
CA_Mask: not used for this table
SP EID Dec & HEX: not used for this table

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

DCR/OCR	Issue date	issued by	Title
none			

8.2.3 Inhibit Autonomous Switching Table

This table holds the information, for which Parameter IDs an autonomous switch-down function shall be inhibited as a CA in response to out-of-limit conditions of this parameter. The table is limited to 255 parameters. By default CA execution is enabled for all parameters.

Table Template:

MCMD: INHIBIT AUTONOMOUS SWITCHING (IOM Reference A6.16)

Columns:

Fault ID: identifies a particular fault ID for which the fault handling action shall be inhibited; for details see chapt.10 of RD1;
fault ID range 1...255 is mapped on parameter ID range 1...255. Fault ID 0 is default and not checked.
range = 256....1022 not used for this table
CA_Mask: not used for this table
SP EID Dec & HEX: not used for this table

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

DCR/OCR	Issue date	issued by	Title
none			

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CA_MASK **Table 1 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
0	0	000			enable
1	1	001			disable
2	0	002			enable
3	0	003			enable
4	0	004			enable
5	0	005			enable
6	0	006			enable
7	0	007			enable
8	0	008			enable
9	0	009			enable
10	0	00A			enable
11	0	00B			enable
12	0	00C			enable
13	0	00D			enable
14	0	00E			enable
15	0	00F			enable
16	0	010			enable
17	0	011			enable
18	0	012			enable
19	0	013			enable
20	0	014			enable
21	0	015			enable
22	0	016			enable
23	0	017			enable
24	0	018			enable
25	0	019			enable
26	0	01A			enable
27	0	01B			enable
28	0	01C			enable
29	0	01D			enable
30	0	01E			enable
31	0	01F			enable
32	0	020			enable
33	0	021			enable
34	0	022			enable
35	0	023			enable
36	0	024			enable
37	0	025			enable
38	0	026			enable
39	0	027			enable
40	0	028			enable
41	0	029			enable
42	0	02A			enable
43	0	02B			enable
44	0	02C			enable
45	0	02D			enable
46	0	02E			enable
47	0	02F			enable
48	0	030			enable
49	0	031			enable

CA_MASK **Table 2 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
50	0	032			enable
51	1	033			disable
52	1	034			disable
53	1	035			disable
54	1	036			disable
55	0	037			enable
56	1	038			disable
57	1	039			disable
58	1	03A			disable
59	1	03B			disable
60	0	03C			enable
61	1	03D			disable
62	1	03E			disable
63	1	03F			disable
64	1	040			disable
65	0	041			enable
66	1	042			disable
67	1	043			disable
68	1	044			disable
69	1	045			disable
70	0	046			enable
71	1	047			disable
72	1	048			disable
73	0	049			enable
74	0	04A			enable
75	0	04B			enable
76	0	04C			enable
77	0	04D			enable
78	0	04E			enable
79	0	04F			enable
80	0	050			enable
81	0	051			enable
82	0	052			enable
83	0	053			enable
84	0	054			enable
85	0	055			enable
86	**1**	056			**disable**
87	1	057			disable
88	1	058			disable
89	1	059			disable
90	0	05A			enable
91	0	05B			enable
92	0	05C			enable
93	0	05D			enable
94	1	05E			disable
95	1	05F			disable
96	0	060			enable
97	0	061			enable
98	0	062			enable
99	0	063			enable

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CA_MASK **Table 3 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
100	1	064			disable
101	1	065			disable
102	0	066			enable
103	0	067			enable
104	0	068			enable
105	0	069			enable
106	0	06A			enable
107	0	06B			enable
108	0	06C			enable
109	1	06D			disable
110	1	06E			disable
111	1	06F			disable
112	0	070			enable
113	0	071			enable
114	0	072			enable
115	0	073			enable
116	0	074			enable
117	0	075			enable
118	0	076			enable
119	0	077			enable
120	0	078			enable
121	0	079			enable
122	0	07A			enable
123	0	07B			enable
124	0	07C			enable
125	0	07D			enable
126	0	07E			enable
127	0	07F			enable
128	0	080			enable
129	0	081			enable
130	0	082			enable
131	0	083			enable
132	0	084			enable
133	0	085			enable
134	0	086			enable
135	0	087			enable
136	0	088			enable
137	0	089			enable
138	0	08A			enable
139	0	08B			enable
140	0	08C			enable
141	0	08D			enable
142	0	08E			enable
143	0	08F			enable
144	0	090			enable
145	0	091			enable
146	0	092			enable
147	0	093			enable
148	0	094			enable
149	0	095			enable

CA_MASK

Table 4 of 21

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
150	0	096			enable
151	0	097			enable
152	0	098			enable
153	0	099			enable
154	0	09A			enable
155	0	09B			enable
156	0	09C			enable
157	0	09D			enable
158	1	09E			disable
159	0	09F			enable
160	0	0A0			enable
161	0	0A1			enable
162	0	0A2			enable
163	0	0A3			enable
164	0	0A4			enable
165	0	0A5			enable
166	0	0A6			enable
167	0	0A7			enable
168	0	0A8			enable
169	0	0A9			enable
170	0	0AA			enable
171	0	0AB			enable
172	0	0AC			enable
173	0	0AD			enable
174	0	0AE			enable
175	0	0AF			enable
176	0	0B0			enable
177	0	0B1			enable
178	0	0B2			enable
179	0	0B3			enable
180	0	0B4			enable
181	0	0B5			enable
182	0	0B6			enable
183	0	0B7			enable
184	0	0B8			enable
185	0	0B9			enable
186	0	0BA			enable
187	0	0BB			enable
188	0	0BC			enable
189	0	0BD			enable
190	0	0BE			enable
191	0	0BF			enable
192	0	0C0			enable
193	0	0C1			enable
194	0	0C2			enable
195	0	0C3			enable
196	0	0C4			enable
197	0	0C5			enable
198	0	0C6			enable
199	0	0C7			enable

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CA_MASK **Table 5 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
200	0	0C8			enable
201	0	0C9			enable
202	0	0CA			enable
203	0	0CB			enable
204	0	0CC			enable
205	0	0CD			enable
206	0	0CE			enable
207	0	0CF			enable
208	0	0D0			enable
209	0	0D1			enable
210	0	0D2			enable
211	0	0D3			enable
212	0	0D4			enable
213	0	0D5			enable
214	0	0D6			enable
215	0	0D7			enable
216	0	0D8			enable
217	0	0D9			enable
218	0	0DA			enable
219	0	0DB			enable
220	0	0DC			enable
221	0	0DD			enable
222	0	0DE			enable
223	0	0DF			enable
224	0	0E0			enable
225	0	0E1			enable
226	0	0E2			enable
227	0	0E3			enable
228	0	0E4			enable
229	0	0E5			enable
230	0	0E6			enable
231	0	0E7			enable
232	0	0E8			enable
233	0	0E9			enable
234	0	0EA			enable
235	0	0EB			enable
236	0	0EC			enable
237	0	0ED			enable
238	0	0EE			enable
239	0	0EF			enable
240	0	0F0			enable
241	0	0F1			enable
242	0	0F2			enable
243	0	0F3			enable
244	0	0F4			enable
245	0	0F5			enable
246	0	0F6			enable
247	0	0F7			enable
248	0	0F8			enable
249	0	0F9			enable

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CA_MASK **Table 6 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
250	0	0FA			enable
251	0	0FB			enable
252	0	0FC			enable
253	0	0FD			enable
254	0	0FE			enable
255	0	0FF			enable
256	0	100			enable
257	0	101			enable
258	0	102			enable
259	0	103			enable
260	0	104			enable
261	0	105			enable
262	0	106			enable
263	0	107			enable
264	0	108			enable
265	0	109			enable
266	0	10A			enable
267	0	10B			enable
268	0	10C			enable
269	0	10D			enable
270	0	10E			enable
271	0	10F			enable
272	0	110			enable
273	0	111			enable
274	0	112			enable
275	0	113			enable
276	0	114			enable
277	0	115			enable
278	0	116			enable
279	0	117			enable
280	0	118			enable
281	0	119			enable
282	0	11A			enable
283	0	11B			enable
284	0	11C			enable
285	0	11D			enable
286	0	11E			enable
287	0	11F			enable
288	0	120			enable
289	0	121			enable
290	0	122			enable
291	0	123			enable
292	0	124			enable
293	0	125			enable
294	0	126			enable
295	0	127			enable
296	0	128			enable
297	0	129			enable
298	0	12A			enable
299	0	12B			enable

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CA_MASK **Table 7 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
300	0	12C			enable
301	0	12D			enable
302	0	12E			enable
303	0	12F			enable
304	0	130			enable
305	0	131			enable
306	0	132			enable
307	0	133			enable
308	0	134			enable
309	0	135			enable
310	0	136			enable
311	0	137			enable
312	0	138			enable
313	0	139			enable
314	0	13A			enable
315	0	13B			enable
316	0	13C			enable
317	0	13D			enable
318	0	13E			enable
319	0	13F			enable
320	0	140			enable
321	0	141			enable
322	0	142			enable
323	0	143			enable
324	0	144			enable
325	0	145			enable
326	0	146			enable
327	0	147			enable
328	0	148			enable
329	0	149			enable
330	0	14A			enable
331	0	14B			enable
332	0	14C			enable
333	0	14D			enable
334	0	14E			enable
335	0	14F			enable
336	0	150			enable
337	0	151			enable
338	0	152			enable
339	0	153			enable
340	0	154			enable
341	0	155			enable
342	0	156			enable
343	0	157			enable
344	0	158			enable
345	0	159			enable
346	0	15A			enable
347	0	15B			enable
348	0	15C			enable
349	0	15D			enable

CA_MASK

Table 8 of 21

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
350	0	15E			enable
351	0	15F			enable
352	0	160			enable
353	0	161			enable
354	0	162			enable
355	0	163			enable
356	0	164			enable
357	0	165			enable
358	0	166			enable
359	0	167			enable
360	0	168			enable
361	0	169			enable
362	0	16A			enable
363	0	16B			enable
364	0	16C			enable
365	0	16D			enable
366	0	16E			enable
367	0	16F			enable
368	0	170			enable
369	0	171			enable
370	0	172			enable
371	0	173			enable
372	0	174			enable
373	0	175			enable
374	0	176			enable
375	0	177			enable
376	0	178			enable
377	0	179			enable
378	0	17A			enable
379	0	17B			enable
380	0	17C			enable
381	0	17D			enable
382	0	17E			enable
383	0	17F			enable
384	0	180			enable
385	0	181			enable
386	0	182			enable
387	0	183			enable
388	0	184			enable
389	0	185			enable
390	0	186			enable
391	0	187			enable
392	0	188			enable
393	0	189			enable
394	0	18A			enable
395	0	18B			enable
396	0	18C			enable
397	0	18D			enable
398	0	18E			enable
399	0	18F			enable

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CA_MASK **Table 9 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
400	0	190			enable
401	0	191			enable
402	0	192			enable
403	0	193			enable
404	1	194			disable
405	0	195			enable
406	0	196			enable
407	0	197			enable
408	0	198			enable
409	0	199			enable
410	0	19A			enable
411	0	19B			enable
412	0	19C			enable
413	0	19D			enable
414	0	19E			enable
415	0	19F			enable
416	0	1A0			enable
417	0	1A1			enable
418	0	1A2			enable
419	0	1A3			enable
420	0	1A4			enable
421	0	1A5			enable
422	0	1A6			enable
423	0	1A7			enable
424	0	1A8			enable
425	0	1A9			enable
426	0	1AA			enable
427	0	1AB			enable
428	0	1AC			enable
429	0	1AD			enable
430	0	1AE			enable
431	0	1AF			enable
432	0	1B0			enable
433	0	1B1			enable
434	0	1B2			enable
435	0	1B3			enable
436	0	1B4			enable
437	0	1B5			enable
438	0	1B6			enable
439	0	1B7			enable
440	0	1B8			enable
441	0	1B9			enable
442	0	1BA			enable
443	0	1BB			enable
444	0	1BC			enable
445	0	1BD			enable
446	0	1BE			enable
447	0	1BF			enable
448	0	1C0			enable
449	0	1C1			enable

CA_MASK

Table 10 of 21

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
450	0	1C2			enable
451	0	1C3			enable
452	1	1C4			disable
453	0	1C5			enable
454	0	1C6			enable
455	0	1C7			enable
456	0	1C8			enable
457	0	1C9			enable
458	0	1CA			enable
459	0	1CB			enable
460	0	1CC			enable
461	0	1CD			enable
462	0	1CE			enable
463	0	1CF			enable
464	0	1D0			enable
465	0	1D1			enable
466	0	1D2			enable
467	0	1D3			enable
468	0	1D4			enable
469	0	1D5			enable
470	0	1D6			enable
471	0	1D7			enable
472	0	1D8			enable
473	0	1D9			enable
474	0	1DA			enable
475	0	1DB			enable
476	0	1DC			enable
477	0	1DD			enable
478	0	1DE			enable
479	0	1DF			enable
480	0	1E0	0	0	enable
481	0	1E1	1	1	enable
482	0	1E2	2	2	enable
483	0	1E3	3	3	enable
484	0	1E4	4	4	enable
485	0	1E5	5	5	enable
486	0	1E6	6	6	enable
487	0	1E7	7	7	enable
488	0	1E8	8	8	enable
489	0	1E9	9	9	enable
490	0	1EA	10	A	enable
491	0	1EB	11	B	enable
492	0	1EC	12	C	enable
493	0	1ED	13	D	enable
494	0	1EE	14	E	enable
495	0	1EF	15	F	enable
496	0	1F0	16	10	enable
497	0	1F1	17	11	enable
498	0	1F2	18	12	enable
499	0	1F3	19	13	enable

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CA_MASK **Table 11 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
500	0	1F4	20	14	enable
501	0	1F5	21	15	enable
502	0	1F6	22	16	enable
503	0	1F7	23	17	enable
504	0	1F8	24	18	enable
505	0	1F9	25	19	enable
506	0	1FA	26	1A	enable
507	0	1FB	27	1B	enable
508	0	1FC	28	1C	enable
509	0	1FD	29	1D	enable
510	0	1FE	30	1E	enable
511	0	1FF	31	1F	enable
512	0	200	32	20	enable
513	0	201	33	21	enable
514	0	202	34	22	enable
515	0	203	35	23	enable
516	0	204	36	24	enable
517	0	205	37	25	enable
518	0	206	38	26	enable
519	0	207	39	27	enable
520	0	208	40	28	enable
521	0	209	41	29	enable
522	0	20A	42	2A	enable
523	0	20B	43	2B	enable
524	0	20C	44	2C	enable
525	0	20D	45	2D	enable
526	0	20E	46	2E	enable
527	0	20F	47	2F	enable
528	0	210			enable
529	0	211			enable
530	0	212			enable
531	0	213			enable
532	0	214			enable
533	0	215			enable
534	0	216			enable
535	0	217			enable
536	0	218			enable
537	0	219			enable
538	0	21A			enable
539	0	21B			enable
540	0	21C			enable
541	0	21D			enable
542	0	21E			enable
543	0	21F			enable
544	0	220			enable
545	0	221			enable
546	0	222			enable
547	0	223			enable
548	0	224			enable
549	0	225			enable

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CA_MASK

Table 12 of 21

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
550	0	226			enable
551	0	227			enable
552	0	228			enable
553	0	229			enable
554	0	22A			enable
555	0	22B			enable
556	0	22C			enable
557	0	22D			enable
558	0	22E			enable
559	0	22F			enable
560	0	230			enable
561	0	231			enable
562	0	232			enable
563	0	233			enable
564	0	234			enable
565	0	235			enable
566	0	236			enable
567	0	237			enable
568	0	238			enable
569	0	239			enable
570	0	23A			enable
571	0	23B			enable
572	0	23C			enable
573	0	23D			enable
574	0	23E			enable
575	0	23F			enable
576	0	240			enable
577	0	241			enable
578	0	242			enable
579	0	243			enable
580	0	244			enable
581	0	245			enable
582	0	246			enable
583	0	247			enable
584	0	248			enable
585	0	249			enable
586	0	24A			enable
587	0	24B			enable
588	0	24C			enable
589	0	24D			enable
590	0	24E			enable
591	0	24F			enable
592	0	250			enable
593	0	251			enable
594	0	252			enable
595	0	253			enable
596	0	254			enable
597	0	255			enable
598	0	256			enable
599	0	257			enable

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CA_MASK **Table 13 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
600	0	258			enable
601	0	259			enable
602	0	25A			enable
603	0	25B			enable
604	0	25C			enable
605	0	25D			enable
606	0	25E			enable
607	0	25F			enable
608	0	260			enable
609	0	261			enable
610	0	262			enable
611	0	263			enable
612	0	264			enable
613	0	265			enable
614	0	266			enable
615	0	267			enable
616	0	268			enable
617	0	269			enable
618	0	26A			enable
619	0	26B			enable
620	0	26C			enable
621	0	26D			enable
622	0	26E			enable
623	0	26F			enable
624	0	270			enable
625	0	271			enable
626	0	272			enable
627	0	273			enable
628	0	274			enable
629	0	275			enable
630	0	276			enable
631	0	277			enable
632	0	278			enable
633	0	279			enable
634	0	27A			enable
635	0	27B			enable
636	0	27C			enable
637	0	27D			enable
638	0	27E			enable
639	0	27F			enable
640	0	280			enable
641	0	281			enable
642	0	282			enable
643	0	283			enable
644	0	284			enable
645	0	285			enable
646	0	286			enable
647	0	287			enable
648	0	288			enable
649	0	289			enable

CA_MASK

Table 14 of 21

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
650	0	28A			enable
651	0	28B			enable
652	0	28C			enable
653	0	28D			enable
654	0	28E			enable
655	0	28F			enable
656	0	290			enable
657	0	291			enable
658	0	292			enable
659	0	293			enable
660	0	294			enable
661	0	295			enable
662	0	296			enable
663	0	297			enable
664	0	298			enable
665	0	299			enable
666	0	29A			enable
667	0	29B			enable
668	0	29C			enable
669	0	29D			enable
670	0	29E			enable
671	0	29F			enable
672	0	2A0			enable
673	0	2A1			enable
674	0	2A2			enable
675	0	2A3			enable
676	0	2A4			enable
677	0	2A5			enable
678	0	2A6			enable
679	0	2A7			enable
680	0	2A8			enable
681	0	2A9			enable
682	0	2AA			enable
683	0	2AB			enable
684	0	2AC			enable
685	0	2AD			enable
686	0	2AE			enable
687	0	2AF			enable
688	0	2B0			enable
689	0	2B1			enable
690	0	2B2			enable
691	0	2B3			enable
692	0	2B4			enable
693	0	2B5			enable
694	0	2B6			enable
695	0	2B7			enable
696	0	2B8			enable
697	0	2B9			enable
698	0	2BA			enable
699	0	2BB			enable

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CA_MASK **Table 15 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
700	0	2BC			enable
701	0	2BD			enable
702	0	2BE			enable
703	0	2BF			enable
704	0	2C0			enable
705	0	2C1			enable
706	0	2C2			enable
707	0	2C3			enable
708	0	2C4			enable
709	0	2C5			enable
710	0	2C6			enable
711	0	2C7			enable
712	0	2C8			enable
713	0	2C9			enable
714	0	2CA			enable
715	0	2CB			enable
716	0	2CC			enable
717	0	2CD			enable
718	0	2CE			enable
719	0	2CF			enable
720	0	2D0			enable
721	0	2D1			enable
722	0	2D2			enable
723	0	2D3			enable
724	0	2D4			enable
725	0	2D5			enable
726	0	2D6			enable
727	0	2D7			enable
728	0	2D8			enable
729	0	2D9			enable
730	0	2DA			enable
731	0	2DB			enable
732	0	2DC			enable
733	0	2DD			enable
734	0	2DE			enable
735	0	2DF			enable
736	0	2E0			enable
737	0	2E1			enable
738	0	2E2			enable
739	0	2E3			enable
740	0	2E4			enable
741	0	2E5			enable
742	0	2E6			enable
743	0	2E7			enable
744	0	2E8			enable
745	0	2E9			enable
746	0	2EA			enable
747	0	2EB			enable
748	0	2EC			enable
749	0	2ED			enable

CA_MASK

Table 16 of 21

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
750	0	2EE			enable
751	0	2EF			enable
752	0	2F0			enable
753	0	2F1			enable
754	0	2F2			enable
755	0	2F3			enable
756	0	2F4			enable
757	0	2F5			enable
758	0	2F6			enable
759	0	2F7			enable
760	0	2F8			enable
761	0	2F9			enable
762	0	2FA			enable
763	0	2FB			enable
764	0	2FC			enable
765	0	2FD			enable
766	0	2FE			enable
767	0	2FF			enable
768	0	300			enable
769	0	301			enable
770	0	302			enable
771	0	303			enable
772	0	304			enable
773	0	305			enable
774	0	306			enable
775	0	307			enable
776	0	308			enable
777	0	309			enable
778	0	30A			enable
779	0	30B			enable
780	0	30C			enable
781	0	30D			enable
782	0	30E			enable
783	0	30F			enable
784	0	310			enable
785	0	311			enable
786	0	312			enable
787	0	313			enable
788	0	314			enable
789	0	315			enable
790	0	316			enable
791	0	317			enable
792	0	318			enable
793	0	319			enable
794	0	31A			enable
795	0	31B			enable
796	0	31C			enable
797	0	31D			enable
798	0	31E			enable
799	0	31F			enable

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CA_MASK **Table 17 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
800	0	320			enable
801	0	321			enable
802	0	322			enable
803	0	323			enable
804	0	324			enable
805	0	325			enable
806	0	326			enable
807	0	327			enable
808	0	328			enable
809	0	329			enable
810	0	32A			enable
811	0	32B			enable
812	0	32C			enable
813	0	32D			enable
814	0	32E			enable
815	0	32F			enable
816	0	330			enable
817	0	331			enable
818	0	332			enable
819	0	333			enable
820	0	334			enable
821	0	335			enable
822	0	336			enable
823	0	337			enable
824	0	338			enable
825	0	339			enable
826	0	33A			enable
827	0	33B			enable
828	0	33C			enable
829	0	33D			enable
830	0	33E			enable
831	0	33F			enable
832	0	340			enable
833	0	341			enable
834	0	342			enable
835	0	343			enable
836	0	344			enable
837	0	345			enable
838	0	346			enable
839	0	347			enable
840	0	348			enable
841	0	349			enable
842	0	34A			enable
843	0	34B			enable
844	0	34C			enable
845	0	34D			enable
846	0	34E			enable
847	0	34F			enable
848	0	350			enable
849	0	351			enable

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CA_MASK

Table 18 of 21

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
850	0	352			enable
851	0	353			enable
852	0	354			enable
853	0	355			enable
854	0	356			enable
855	0	357			enable
856	0	358			enable
857	0	359			enable
858	0	35A			enable
859	0	35B			enable
860	0	35C			enable
861	0	35D			enable
862	0	35E			enable
863	0	35F			enable
864	0	360			enable
865	0	361			enable
866	0	362			enable
867	0	363			enable
868	0	364			enable
869	0	365			enable
870	0	366			enable
871	0	367			enable
872	0	368			enable
873	0	369			enable
874	0	36A			enable
875	0	36B			enable
876	0	36C			enable
877	0	36D			enable
878	0	36E			enable
879	0	36F			enable
880	0	370			enable
881	0	371			enable
882	0	372			enable
883	0	373			enable
884	0	374			enable
885	0	375			enable
886	0	376			enable
887	0	377			enable
888	0	378			enable
889	0	379			enable
890	0	37A			enable
891	0	37B			enable
892	0	37C			enable
893	0	37D			enable
894	0	37E			enable
895	0	37F			enable
896	0	380			enable
897	0	381			enable
898	0	382			enable
899	0	383			enable

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CA_MASK **Table 19 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
900	0	384			enable
901	0	385			enable
902	0	386			enable
903	0	387			enable
904	0	388			enable
905	0	389			enable
906	0	38A			enable
907	0	38B			enable
908	0	38C			enable
909	0	38D			enable
910	0	38E			enable
911	0	38F			enable
912	0	390			enable
913	0	391			enable
914	0	392			enable
915	0	393			enable
916	0	394			enable
917	0	395			enable
918	0	396			enable
919	0	397			enable
920	0	398			enable
921	0	399			enable
922	0	39A			enable
923	0	39B			enable
924	0	39C			enable
925	0	39D			enable
926	0	39E			enable
927	0	39F			enable
928	0	3A0			enable
929	0	3A1			enable
930	0	3A2			enable
931	0	3A3			enable
932	0	3A4			enable
933	0	3A5			enable
934	0	3A6			enable
935	0	3A7			enable
936	0	3A8			enable
937	0	3A9			enable
938	0	3AA			enable
939	0	3AB			enable
940	0	3AC			enable
941	0	3AD			enable
942	0	3AE			enable
943	0	3AF			enable
944	0	3B0			enable
945	0	3B1			enable
946	0	3B2			enable
947	0	3B3			enable
948	0	3B4			enable
949	0	3B5			enable

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CA_MASK **Table 20 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
950	0	3B6			enable
951	0	3B7			enable
952	0	3B8			enable
953	0	3B9			enable
954	0	3BA			enable
955	0	3BB			enable
956	0	3BC			enable
957	0	3BD			enable
958	0	3BE			enable
959	0	3BF			enable
960	0	3C0			enable
961	0	3C1			enable
962	0	3C2			enable
963	0	3C3			enable
964	0	3C4			enable
965	0	3C5			enable
966	0	3C6			enable
967	0	3C7			enable
968	0	3C8			enable
969	0	3C9			enable
970	0	3CA			enable
971	0	3CB			enable
972	0	3CC			enable
973	0	3CD			enable
974	0	3CE			enable
975	0	3CF			enable
976	0	3D0			enable
977	0	3D1			enable
978	0	3D2			enable
979	0	3D3			enable
980	0	3D4			enable
981	0	3D5			enable
982	0	3D6			enable
983	0	3D7			enable
984	0	3D8			enable
985	0	3D9			enable
986	0	3DA			enable
987	0	3DB			enable
988	0	3DC			enable
989	0	3DD			enable
990	0	3DE			enable
991	0	3DF			enable
992	0	3E0			enable
993	0	3E1			enable
994	0	3E2			enable
995	0	3E3			enable
996	0	3E4			enable
997	0	3E5			enable
998	0	3E6			enable
999	0	3E7			enable

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CA_MASK **Table 21 of 21**

Fault ID DEC	CA_MASK HEX	Fault ID HEX	SP EID DEC	SP EID HEX	CA_MASK ALPHA
1000	0	3E8			enable
1001	0	3E9			enable
1002	0	3EA			enable
1003	0	3EB			enable
1004	0	3EC			enable
1005	0	3ED			enable
1006	0	3EE			enable
1007	0	3EF			enable
1008	0	3F0			enable
1009	0	3F1			enable
1010	0	3F2			enable
1011	0	3F3			enable
1012	0	3F4			enable
1013	0	3F5			enable
1014	0	3F6			enable
1015	0	3F7			enable
1016	0	3F8			enable
1017	0	3F9			enable
1018	0	3FA			enable
1019	0	3FB			enable
1020	0	3FC			enable
1021	0	3FD			enable
1022	0	3FE			enable
1023	0	3FF			enable

8.2.4 CA_Matrix Table

The Engineering tables related hereto are also all organised according to the fault ID-number of the parameter defined. When an ID is cited in any of these tables the identical parameter is designated by this ID.
The CA_Matrix defines for a particular Fault Id, which CA is assigned to it as a function of instrument mode or transition to mode.

The table is limited to 1023 Fault IDs.

Table Template:

MCMD: SET CA_MATRIX (IOM Reference A6.30)

Header Line:

CA ID HEX: covers the Transition to Mode & Current Mode entry area for the particular CA to be applied

Columns:

Fault ID: identifies a particular fault ID for which the appropriate fault handling action shall be defined; for general flow diagramme see chapt.10 fig. 10-6 of RD1;
range = 1....1023 (column 1 - DEC; column 2 – HEX);
fault ID 1023 is assigned to EQSOL

Transition to: columns 3,5,7,9,11,13,15,17
specifies which fault handling action – CA applies for the Fault ID in the transition to the quoted mode

Current Mode: columns 4,6,8,10,12,14,16,18
specifies which fault handling action – CA applies for the Fault ID in the quoted mode

At time of issue the following CCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via MCMD.

DCR/OCR	Issue date	issued by	Title
DR-SCIA-0004DO/00	27.07.00	DSS	Correction of CA-matrix due to Patch & Dump handling problems
e-mail P.Lützow	16.09.2002	Astrium	fault ID 0796 to be treated acc. to DR-SCIA-0004DO/00

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CA_MATRIX **Table 1 of 21**

		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
0	0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0001	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
2	0002	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
3	0003	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
4	0004	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
5	0005	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
6	0006	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
7	0007	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
8	0008	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
9	0009	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
10	000A	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
11	000B	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
12	000C	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
13	000D	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
14	000E	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
15	000F	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
16	0010	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
17	0011	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
18	0012	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
19	0013	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
20	0014	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
21	0015	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
22	0016	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
23	0017	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
24	0018	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
25	0019	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
26	001A	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
27	001B	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
28	001C	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
29	001D	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
30	001E	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
31	001F	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0
32	0020	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
33	0021	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
34	0022	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
35	0023	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
36	0024	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0
37	0025	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
38	0026	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
39	0027	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
40	0028	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
41	0029	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0
42	002A	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
43	002B	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
44	002C	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
45	002D	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
46	002E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
47	002F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
48	0030	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
49	0031	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1

CA_MATRIX **Table 2 of 21**

		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
50	0032	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
51	0033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0037	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
56	0038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	003A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	003B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	003C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
61	003D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	003E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	003F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0041	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
66	0042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0046	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
71	0047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0049	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
74	004A	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
75	004B	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
76	004C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
77	004D	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
78	004E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
79	004F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
80	0050	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
81	0051	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
82	0052	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
83	0053	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
84	0054	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
85	0055	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	0
86	0056	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0
87	0057	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0058	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0059	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	005A	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
91	005B	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
92	005C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
93	005D	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
94	005E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
95	005F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
96	0060	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
97	0061	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
98	0062	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
99	0063	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1

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CA_MATRIX Table 3 of 21

		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE_E	Current Mode 1) STANDBY/REFUSE_E	Transition to 2) STANDBY/REFUSE_I	Current Mode 1) STANDBY/REFUSE_I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
100	0064	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
101	0065	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
102	0066	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
103	0067	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
104	0068	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
105	0069	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
106	006A	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
107	006B	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
108	006C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
109	006D	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
110	006E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
111	006F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
112	0070	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
113	0071	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
114	0072	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
115	0073	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
116	0074	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
117	0075	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
118	0076	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
119	0077	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
120	0078	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
121	0079	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
122	007A	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
123	007B	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
124	007C	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
125	007D	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
126	007E	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
127	007F	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
128	0080	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
129	0081	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
130	0082	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
131	0083	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
132	0084	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
133	0085	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
134	0086	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
135	0087	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
136	0088	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
137	0089	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
138	008A	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
139	008B	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
140	008C	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
141	008D	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
142	008E	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
143	008F	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
144	0090	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
145	0091	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
146	0092	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
147	0093	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
148	0094	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
149	0095	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2

CA_MATRIX **Table 4 of 21**

		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
150	0096	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
151	0097	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
152	0098	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2
153	0099	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
154	009A	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
155	009B	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
156	009C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
157	009D	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
158	009E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
159	009F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
160	00A0	4	4	3	3	2	2	2	2	2	1	2	2	1	1	1	1
161	00A1	4	4	3	3	2	2	2	2	2	1	2	2	1	1	1	1
162	00A2	4	4	3	3	2	2	2	2	2	1	2	2	1	1	1	1
163	00A3	4	4	3	3	2	2	2	2	2	1	2	2	1	1	1	1
164	00A4	4	4	3	3	2	2	2	2	2	1	2	2	1	1	1	1
165	00A5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
166	00A6	4	4	3	3	2	2	2	2	2	1	2	2	1	1	1	1
167	00A7	4	4	3	3	2	2	2	2	2	1	2	2	1	1	1	1
168	00A8	4	4	3	3	2	2	2	2	2	1	2	2	1	1	1	1
169	00A9	4	4	3	3	2	2	2	2	2	1	2	2	1	1	1	1
170	00AA	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
171	00AB	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
172	00AC	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
173	00AD	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
174	00AE	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
175	00AF	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
176	00B0	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
177	00B1	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
178	00B2	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
179	00B3	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
180	00B4	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
181	00B5	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
182	00B6	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
183	00B7	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
184	00B8	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
185	00B9	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
186	00BA	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
187	00BB	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
188	00BC	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
189	00BD	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
190	00BE	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
191	00BF	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
192	00C0	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
193	00C1	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
194	00C2	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
195	00C3	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
196	00C4	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
197	00C5	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
198	00C6	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
199	00C7	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1

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CA_MATRIX Table 5 of 21

		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
200	00C8	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
201	00C9	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
202	00CA	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
203	00CB	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
204	00CC	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
205	00CD	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
206	00CE	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
207	00CF	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
208	00D0	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
209	00D1	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
210	00D2	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
211	00D3	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
212	00D4	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
213	00D5	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
214	00D6	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
215	00D7	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
216	00D8	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
217	00D9	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
218	00DA	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
219	00DB	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
220	00DC	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
221	00DD	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
222	00DE	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
223	00DF	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
224	00E0	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
225	00E1	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
226	00E2	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
227	00E3	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
228	00E4	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
229	00E5	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
230	00E6	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
231	00E7	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
232	00E8	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
233	00E9	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
234	00EA	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
235	00EB	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
236	00EC	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
237	00ED	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
238	00EE	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
239	00EF	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
240	00F0	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
241	00F1	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
242	00F2	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
243	00F3	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
244	00F4	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
245	00F5	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
246	00F6	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
247	00F7	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
248	00F8	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
249	00F9	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
250	00FA	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
251	00FB	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
252	00FC	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
253	00FD	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
254	00FE	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
255	00FF	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
256	0100	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
257	0101	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
258	0102	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
259	0103	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
260	0104	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
261	0105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
262	0106	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
263	0107	0	0	0	0	0	0	2	2	2	1	0	0	0	0	0	0
264	0108	0	0	0	0	0	0	2	2	2	1	0	0	0	0	0	0
265	0109	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0
266	010A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
267	010B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
268	010C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
269	010D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
270	010E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
271	010F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
272	0110	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
273	0111	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
274	0112	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
275	0113	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
276	0114	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
277	0115	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
278	0116	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
279	0117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
280	0118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
281	0119	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
282	011A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
283	011B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
284	011C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
285	011D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
286	011E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
287	011F	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
288	0120	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	0
289	0121	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
290	0122	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
291	0123	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	0
292	0124	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	0
293	0125	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	0
294	0126	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	0
295	0127	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	0
296	0128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
297	0129	0	0	0	0	0	0	2	2	0	1	2	2	1	1	1	1
298	012A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
299	012B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
300	012C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
301	012D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
302	012E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
303	012F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
304	0130	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
305	0131	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
306	0132	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
307	0133	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
308	0134	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
309	0135	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
310	0136	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
311	0137	0	0	0	0	0	0	0	2	0	1	0	2	0	1	0	0
312	0138	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
313	0139	0	0	0	0	0	0	2	2	0	1	2	2	1	1	1	1
314	013A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
315	013B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
316	013C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
317	013D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
318	013E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
319	013F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
320	0140	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
321	0141	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0
322	0142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
323	0143	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
324	0144	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
325	0145	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
326	0146	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
327	0147	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
328	0148	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
329	0149	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
330	014A	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
331	014B	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
332	014C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
333	014D	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
334	014E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
335	014F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
336	0150	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
337	0151	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
338	0152	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
339	0153	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
340	0154	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
341	0155	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
342	0156	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
343	0157	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
344	0158	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
345	0159	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
346	015A	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
347	015B	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
348	015C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
349	015D	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1

no modifications to the contents of the tables on the
opposite side as burned in EEPROM – ICU_SW V.2.03

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
350	015E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
351	015F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
352	0160	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
353	0161	0	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
354	0162	0	0	0	7	7	7	7	7	7	7	7	7	7	7	7	7
355	0163	0	0	0	0	0	7	2	2	2	7	2	2	7	7	7	7
356	0164	0	0	0	0	7	7	0	7	7	7	7	7	7	7	7	7
357	0165	0	0	0	0	0	0	0	2	0	1	0	0	1	1	1	1
358	0166	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0
359	0167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
360	0168	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
361	0169	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
362	016A	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
363	016B	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
364	016C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
365	016D	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
366	016E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
367	016F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
368	0170	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
369	0171	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
370	0172	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
371	0173	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
372	0174	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
373	0175	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
374	0176	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
375	0177	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
376	0178	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
377	0179	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
378	017A	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
379	017B	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
380	017C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
381	017D	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
382	017E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
383	017F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
384	0180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
385	0181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
386	0182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
387	0183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
388	0184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
389	0185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
390	0186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391	0187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
392	0188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
393	0189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
394	018A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
395	018B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
396	018C	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	0
397	018D	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0
398	018E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
399	018F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CA_MATRIX **Table 8 of 21**

		CA ID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
350	015E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
351	015F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
352	0160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
353	0161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
354	0162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
355	0163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
356	0164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
357	0165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
358	0166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
359	0167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
360	0168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
361	0169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362	016A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
363	016B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
364	016C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
365	016D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
366	016E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
367	016F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
368	0170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
369	0171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
370	0172	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
371	0173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
372	0174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
373	0175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
374	0176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
375	0177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
376	0178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
377	0179	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
378	017A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
379	017B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
380	017C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
381	017D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
382	017E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
383	017F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
384	0180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
385	0181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
386	0182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
387	0183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
388	0184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
389	0185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
390	0186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
391	0187	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
392	0188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
393	0189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
394	018A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
395	018B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
396	018C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
397	018D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
398	018E	-	-	-	-	-	**2**	-	-	**2**	-	-	-	-	-	-	-
399	018F	-	-	-	-	-	**2**	-	-	**2**	-	-	-	-	-	-	-

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
400	0190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401	0191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
402	0192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
403	0193	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
404	0194	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	0
405	0195	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
406	0196	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
407	0197	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
408	0198	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
409	0199	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
410	019A	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
411	019B	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
412	019C	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
413	019D	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
414	019E	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
415	019F	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
416	01A0	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
417	01A1	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
418	01A2	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
419	01A3	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
420	01A4	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
421	01A5	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
422	01A6	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
423	01A7	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
424	01A8	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
425	01A9	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
426	01AA	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
427	01AB	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
428	01AC	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
429	01AD	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
430	01AE	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
431	01AF	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
432	01B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
433	01B1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
434	01B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
435	01B3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
436	01B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
437	01B5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
438	01B6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
439	01B7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
440	01B8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
441	01B9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
442	01BA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
443	01BB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
444	01BC	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	0
445	01BD	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0
446	01BE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
447	01BF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
448	01C0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
449	01C1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
450	01C2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
451	01C3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
452	01C4	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	0
453	01C5	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
454	01C6	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
455	01C7	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
456	01C8	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
457	01C9	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
458	01CA	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
459	01CB	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
460	01CC	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
461	01CD	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
462	01CE	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
463	01CF	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
464	01D0	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
465	01D1	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
466	01D2	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
467	01D3	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
468	01D4	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
469	01D5	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
470	01D6	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
471	01D7	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
472	01D8	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
473	01D9	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
474	01DA	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
475	01DB	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
476	01DC	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
477	01DD	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
478	01DE	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
479	01DF	0	0	0	0	2	2	2	2	2	1	2	2	1	1	1	1
480	01E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
481	01E1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
482	01E2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
483	01E3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
484	01E4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
485	01E5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
486	01E6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
487	01E7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
488	01E8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
489	01E9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
490	01EA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
491	01EB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
492	01EC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
493	01ED	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
494	01EE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
495	01EF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
496	01F0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
497	01F1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
498	01F2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
499	01F3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
500	01F4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
501	01F5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
502	01F6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
503	01F7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
504	01F8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
505	01F9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
506	01FA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
507	01FB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
508	01FC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
509	01FD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
510	01FE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
511	01FF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
512	0200	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
513	0201	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
514	0202	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
515	0203	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
516	0204	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
517	0205	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
518	0206	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
519	0207	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
520	0208	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
521	0209	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
522	020A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
523	020B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
524	020C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
525	020D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
526	020E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
527	020F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
528	0210	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
529	0211	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
530	0212	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
531	0213	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
532	0214	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
533	0215	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
534	0216	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
535	0217	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
536	0218	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
537	0219	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
538	021A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
539	021B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
540	021C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
541	021D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
542	021E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
543	021F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
544	0220	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
545	0221	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
546	0222	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
547	0223	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
548	0224	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
549	0225	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1

CA_MATRIX **Table 12 of 21**

		CA ID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
550	0226	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
551	0227	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
552	0228	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
553	0229	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
554	022A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
555	022B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
556	022C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
557	022D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
558	022E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
559	022F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
560	0230	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
561	0231	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
562	0232	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
563	0233	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
564	0234	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
565	0235	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
566	0236	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
567	0237	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
568	0238	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
569	0239	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
570	023A	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
571	023B	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
572	023C	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
573	023D	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
574	023E	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
575	023F	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
576	0240	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
577	0241	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
578	0242	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
579	0243	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
580	0244	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
581	0245	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
582	0246	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
583	0247	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
584	0248	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
585	0249	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
586	024A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
587	024B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
588	024C	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
589	024D	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
590	024E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
591	024F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
592	0250	0	0	0	0	0	0	2	2	2	0	2	2	0	0	0	0
593	0251	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
594	0252	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
595	0253	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
596	0254	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
597	0255	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
598	0256	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
599	0257	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
600	0258	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
601	0259	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
602	025A	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
603	025B	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
604	025C	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
605	025D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
606	025E	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
607	025F	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
608	0260	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
609	0261	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
610	0262	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
611	0263	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
612	0264	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
613	0265	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
614	0266	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
615	0267	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
616	0268	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
617	0269	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
618	026A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
619	026B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
620	026C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
621	026D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
622	026E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
623	026F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
624	0270	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
625	0271	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
626	0272	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
627	0273	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
628	0274	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
629	0275	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
630	0276	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
631	0277	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
632	0278	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
633	0279	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
634	027A	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
635	027B	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
636	027C	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
637	027D	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
638	027E	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
639	027F	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
640	0280	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
641	0281	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
642	0282	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
643	0283	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
644	0284	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
645	0285	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
646	0286	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
647	0287	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
648	0288	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
649	0289	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1

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		CA ID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
650	028A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
651	028B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
652	028C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
653	028D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
654	028E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
655	028F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
656	0290	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
657	0291	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
658	0292	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
659	0293	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
660	0294	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
661	0295	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
662	0296	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
663	0297	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
664	0298	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
665	0299	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
666	029A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
667	029B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
668	029C	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
669	029D	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
670	029E	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
671	029F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
672	02A0	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
673	02A1	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
674	02A2	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
675	02A3	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
676	02A4	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
677	02A5	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
678	02A6	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
679	02A7	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
680	02A8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
681	02A9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
682	02AA	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
683	02AB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
684	02AC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
685	02AD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
686	02AE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
687	02AF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
688	02B0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
689	02B1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
690	02B2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
691	02B3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
692	02B4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
693	02B5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
694	02B6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
695	02B7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
696	02B8	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
697	02B9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
698	02BA	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
699	02BB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1

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CA_MATRIX Table 15 of 21

		CA ID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
700	02BC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
701	02BD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
702	02BE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
703	02BF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
704	02C0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
705	02C1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
706	02C2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
707	02C3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
708	02C4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
709	02C5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
710	02C6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
711	02C7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
712	02C8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
713	02C9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
714	02CA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
715	02CB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
716	02CC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
717	02CD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
718	02CE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
719	02CF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
720	02D0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
721	02D1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
722	02D2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
723	02D3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
724	02D4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
725	02D5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
726	02D6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
727	02D7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
728	02D8	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
729	02D9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
730	02DA	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
731	02DB	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
732	02DC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
733	02DD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
734	02DE	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
735	02DF	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
736	02E0	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
737	02E1	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
738	02E2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
739	02E3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
740	02E4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
741	02E5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
742	02E6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
743	02E7	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
744	02E8	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
745	02E9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
746	02EA	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0
747	02EB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
748	02EC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
749	02ED	0	0	0	0	0	0	2	2	0	0	2	2	0	0	0	0

no modifications to the contents of the tables on the
opposite side as burned in EEPROM – ICU_SW V.2.03

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CA_MATRIX Table 16 of 21

		CA ID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
750	02EE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
751	02EF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
752	02F0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
753	02F1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
754	02F2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
755	02F3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
756	02F4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
757	02F5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
758	02F6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
759	02F7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
760	02F8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
761	02F9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
762	02FA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
763	02FB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
764	02FC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
765	02FD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
766	02FE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
767	02FF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
768	0300	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
769	0301	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
770	0302	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
771	0303	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
772	0304	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
773	0305	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
774	0306	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
775	0307	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
776	0308	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
777	0309	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
778	030A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
779	030B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
780	030C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
781	030D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
782	030E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
783	030F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
784	0310	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
785	0311	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
786	0312	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
787	0313	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
788	0314	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
789	0315	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
790	0316	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
791	0317	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
792	0318	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
793	0319	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
794	031A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
795	031B	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0
796	031C	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0
797	031D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
798	031E	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
799	031F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1

CA_MATRIX **Table 16 of 21**

		CA ID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
750	02EE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
751	02EF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
752	02F0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
753	02F1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
754	02F2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
755	02F3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
756	02F4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
757	02F5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
758	02F6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
759	02F7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
760	02F8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
761	02F9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
762	02FA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
763	02FB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
764	02FC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
765	02FD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
766	02FE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
767	02FF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
768	0300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
769	0301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
770	0302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
771	0303	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
772	0304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
773	0305	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
774	0306	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
775	0307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
776	0308	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
777	0309	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
778	030A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
779	030B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
780	030C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
781	030D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
782	030E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
783	030F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
784	0310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
785	0311	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
786	0312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
787	0313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
788	0314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
789	0315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
790	0316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
791	0317	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
792	0318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
793	0319	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
794	031A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
795	031B	-	-	-	-	-	**9**	-	-	-	-	-	-	-	-	-	-
796	031C	-	-	-	-	-	**9**	-	-	-	-	-	-	-	-	-	-
797	031D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
798	031E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
799	031F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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CA_MATRIX Table 17 of 21

		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
800	0320	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
801	0321	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
802	0322	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
803	0323	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
804	0324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805	0325	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
806	0326	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
807	0327	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
808	0328	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
809	0329	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
810	032A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
811	032B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
812	032C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
813	032D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
814	032E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
815	032F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
816	0330	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
817	0331	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
818	0332	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
819	0333	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
820	0334	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
821	0335	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
822	0336	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
823	0337	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
824	0338	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
825	0339	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
826	033A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
827	033B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
828	033C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
829	033D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
830	033E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
831	033F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
832	0340	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
833	0341	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
834	0342	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
835	0343	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
836	0344	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
837	0345	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
838	0346	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
839	0347	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
840	0348	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
841	0349	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
842	034A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
843	034B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
844	034C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
845	034D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
846	034E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
847	034F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
848	0350	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
849	0351	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
850	0352	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
851	0353	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
852	0354	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
853	0355	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
854	0356	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
855	0357	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
856	0358	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
857	0359	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
858	035A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
859	035B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
860	035C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
861	035D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
862	035E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
863	035F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
864	0360	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
865	0361	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
866	0362	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
867	0363	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
868	0364	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
869	0365	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
870	0366	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
871	0367	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
872	0368	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
873	0369	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
874	036A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
875	036B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
876	036C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
877	036D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
878	036E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
879	036F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
880	0370	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
881	0371	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
882	0372	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
883	0373	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
884	0374	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
885	0375	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
886	0376	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
887	0377	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
888	0378	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
889	0379	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
890	037A	0	0	0	0	0	0	9	9	9	9	9	9	9	9	9	9
891	037B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
892	037C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
893	037D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
894	037E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
895	037F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
896	0380	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
897	0381	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
898	0382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
899	0383	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
900	0384	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
901	0385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
902	0386	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
903	0387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
904	0388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
905	0389	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
906	038A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
907	038B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
908	038C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
909	038D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
910	038E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
911	038F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
912	0390	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
913	0391	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
914	0392	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
915	0393	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
916	0394	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
917	0395	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
918	0396	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
919	0397	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
920	0398	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
921	0399	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
922	039A	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
923	039B	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
924	039C	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
925	039D	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
926	039E	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
927	039F	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
928	03A0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
929	03A1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
930	03A2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
931	03A3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
932	03A4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
933	03A5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
934	03A6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
935	03A7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
936	03A8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
937	03A9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
938	03AA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
939	03AB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
940	03AC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
941	03AD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
942	03AE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
943	03AF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
944	03B0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
945	03B1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
946	03B2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
947	03B3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
948	03B4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
949	03B5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
950	03B6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
951	03B7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
952	03B8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
953	03B9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
954	03BA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
955	03BB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
956	03BC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
957	03BD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
958	03BE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
959	03BF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
960	03C0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
961	03C1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
962	03C2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
963	03C3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
964	03C4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
965	03C5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
966	03C6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
967	03C7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
968	03C8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
969	03C9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
970	03CA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
971	03CB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
972	03CC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
973	03CD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
974	03CE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
975	03CF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
976	03D0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
977	03D1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
978	03D2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
979	03D3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
980	03D4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
981	03D5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
982	03D6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
983	03D7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
984	03D8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
985	03D9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
986	03DA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
987	03DB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
988	03DC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
989	03DD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
990	03DE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
991	03DF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
992	03E0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
993	03E1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
994	03E2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
995	03E3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
996	03E4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
997	03E5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
998	03E6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
999	03E7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1

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		CAID HEX															
FAULT ID DEC	FAULT ID HEX	Transition to 2) STANDBY/REFUSE-E	Current Mode 1) STANDBY/REFUSE-E	Transition to 2) STANDBY/REFUSE-I	Current Mode 1) STANDBY/REFUSE-I	Transition to HEATER/ REFUSE	Current Mode HEATER/ REFUSE	Transition to STANDBY	Current Mode STANDBY	Transition to HEATER	Current Mode HEATER	Transition to DECONTAMINATION	Current Mode DECONTAMINATION	Transition to IDLE	Current Mode IDLE	Transition to TIMELINE	Current Mode TIMELINE
1000	03E8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1001	03E9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1002	03EA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1003	03EB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1004	03EC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1005	03ED	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1006	03EE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1007	03EF	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1008	03F0	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1009	03F1	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1010	03F2	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1011	03F3	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1012	03F4	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1013	03F5	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1014	03F6	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1015	03F7	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1016	03F8	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1017	03F9	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1018	03FA	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1019	03FB	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1020	03FC	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1021	03FD	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1022	03FE	0	0	0	0	0	0	2	2	2	1	2	2	1	1	1	1
1023	0000	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

8.3 Control tables

All tables of this grouping are related to characteristics of instrument controls. This covers mechanisms, drives and the thermal control.

8.3.1 Scanner constants

This table holds all values of the constants used in the scan algorithms. All parameters listed have their particular calibration. For details about a single parameter see RD7.

Table Template:

MCMD: SET SCANNER CONSTANTS (IOM Reference A6.46)

Columns:

Column 1: gives the alphanumeric name of the parameter
Parameter: specifies the value of the parameter in calibrated engineering units

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via fixed MCMD.

Note: The tables given in this chapter are reflecting only the parameter settings for the inflight configuration ID 15 & 16.

DCR/OCR	Issue date	issued by	Title
DR-SCIA-0099DO/97	22.08.97	DSS	Scanner constants SF parameter update
DR-SCIA-0024DO/98	15.07.98	DSS	Update of zero offsets of scanner constants after ILOS calibration
DR-SCIA-0036DO/98	03.12.98	DSS	Update of zero offsets for Flight
DR-SCIA-0008DO/99	01.07.99	DSS	Update of SF quadrant thresholds in Scanner Constants MCMD for Flight
DR-SCIA-0001DO/01	12.03.01	Astrium	Encoder Zero Offsets for new ASM/PFM#2 and editorial changes
DR-SCIA-0002DO/01	11.04.01	Astrium	Final Encoder Zero Offsets for ASM/PFM#2 and editorial change

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	Parameter
Transition Filter Time Constant (TF)	00,003
Proportion acceleration dur. / transition duration (λ)	0,2000
number of support points (nsup)	21
number of target detections	10
scale factor azimuth angular offset (Ksfa)	-,003621
scale factor elevation angular offset (Ksfe)	-,003478
correction scale factor azimuth angular offset	15416
correction scale factor elev. angular offset	15416
Quadrant Threshold s_min,A (10-05)	03500
Quadrant Threshold s_min,B (10-05)	03500
pointing error threshold A AZ F	,000105
pointing error threshold A ELV Y	,000052
pointing error threshold B AZ F	,000105
pointing error threshold B ELV Y	,000052
Init Velocity AZ	0,8000
Init Velocity ELV	0,8000
Init Timeout AZ	16,000
Init Timeout ELV	16,000
Encoder Zero Offset A AZ	-1,919862
Encoder Zero Offset A ELV	-,349066
Encoder Zero Offset B AZ	-,349066
Encoder Zero Offset B ELV	-1,919862
SF OFFSET A AZ	6
SF OFFSET A ELV	8
SF TOTAL OFFSET A	2747
SF OFFSET B AZ	50
SF OFFSET B ELV	68
SF TOTAL OFFSET B	2491
l_t,obs	0003290000
F_t,obs	4,239098
a_0	7159492,7
i_0	1,720011279
Spare	0
Spare	0
N_ref	0014,314286
F_err	0
Q_err	0
Y_err	0

	Parameter
TF-Transition Filter Time Cons.	
lambda-Proportion accel. to trans.duration	
nsup-Number of support points	
number of target detections	
KSFAZ0-SF scale fact. offset AZ	-,003717
KSFEL0-SF scale fact. offset EL	-,002859
KSFAZ3-SF corr. fact. offset AZ	
KSFEL3-SF corr. fact. offset EL	
smin,A-SF Quad.Thresh. Chain A	00165
smin,B-SF Quad.Thresh. Chain B	00045
pointing error threshold A AZ	
pointing error threshold A ELV	
pointing error threshold B AZ	
pointing error threshold B ELV	
Init Velocity AZ	
Init Velocity ELV	
Init Timeout AZ	
Init Timeout ELV	
alpha0-Encoder Zero Offset A AZ	-1,888122
eps0-Encoder Zero Offset A ELV	-,335696
alpha0-Encoder Zero Offset B AZ	-,317465
eps0-Encoder Zero Offset B ELV	-1,906641
SF OFFSET A AZ	1
SF OFFSET A ELV	1
SF TOTAL OFFSET A	
SF OFFSET B AZ	5
SF OFFSET B ELV	7
SF TOTAL OFFSET B	
l_t,obs-Horizon Tangent Length	
PHI_t,obs-Horizon Elev. Angle	
a_0-Kepler semimajor axis	
i_0-Kepler orbit inclination	
Spare	
Spare	
N_ref-Kepler orbit repetition	
PHI_err-Alignment Error Xou	,000011
THETA_err-Aligment Error You	,000029
PSI_err-Alignment Error Zou	-,003970

8.3.2 Scanner Control Parameters

This table holds the PID-controller parameters used for the scanner position control. All parameters listed have their particular calibration. For details about a single parameter see RD7.

Table Template:

MCMD: SET SCANNER CONTROL PARAMETERS (IOM Reference A6.47)

Columns:

Column 1: gives the alphanumeric name of the parameter
Parameter: specifies the value of the parameter in calibrated engineering units

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via fixed MCMD.

DCR/OCR	Issue date	issued by	Title
None			

	Parameter
azimuth controller gain (K_r)	03,000
azimuth controller break frequency (w_r)	0094,8
azimuth controller damping factor (d_r)	00,540
azimuth realisation pole (w_T)	03242
azimuth torque sensitivity of mototr (K_T)	00,830
azimuth total inertia of rotating system (I_pl)	0,000670
azimuth sampling interval (T_c)	00,001
azimuth integration limitation threshold (Y_dMax)	0,008000
elevation controller gain (K_r)	06,300
elevation controller break frequency (w_r)	0100,0
elevation controller damping factor (D_r)	00,540
elevation realisation pole (w_T)	03242
elevation torque sensitivity of mototr (K_T)	00,830
elevation total inertia of rotating system (I_pl)	0,000358
elevation sampling interval (T_c)	00,001
elevation integration limitation threshold (Y_dMax)	00,002

8.3.3 Thermal Control Parameters

This table holds the thermal control parameters. All parameters listed have their particular calibration.

Table Template:

MCMD: SET THERMAL CONTROL (IOM Reference A6.56)

Columns:

Parameter ID: gives the parameter ID
ATC_OBM Parameter gives the alphanumeric name of the parameter
EU: specifies the value of the parameter in calibrated engineering units

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via fixed MCMD.

Note: The tables given in this chapter are reflecting only the parameter settings for the inflight configuration ID 15 & 16.

As the thermal status of the instrument is subject to change due to external and internal thermal conditions, some parameters of this table (ID 37 to 46) are changed as result of the termal monitoring activities - see IOM chapt 12.3.2.2 PIN_401 & PIN_402. The latest status of these changes is always displayed on the web-site of SCIAMACHY Operations Support :

http://atmos.af.op.dlr.de/projects/scops/

DCR/OCR	Issue date	issued by	Title
DR_SCIA-0011DO/98	16.03.98	DSS	Revised settings of ATC constants (Flight Parameters)
DR_SCIA-0022DO/98	07.07.98	DSS	ATC Set-point update for new OBM Temperature (-18°C)
DR-SCIA-0001DO/99	22.01.99	DSS	ATC Set-points updated according to Flight Prediction
DR-SCIA-0003DO/99	16.04.99	DSS	ATC Radiator A power restriction (ground) & temp. setpoints (flight)

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EU

Parameter ID	ATC OBM Parameter	EU
1	Kp_11	45
2	Kp_12	0
3	Kp_13	0
4	Ki_11	0,509
5	Ki_12	0
6	Ki_13	0
7	Kp_21	0
8	Kp_22	25
9	Kp_23	0
10	Ki_21	0
11	Ki_22	0,283
12	Ki_23	0
13	Kp_31	0
14	Kp_32	0
15	Kp_33	15
16	Ki_31	0
17	Ki_32	0
18	Ki_33	0,17
19	Ilimit_1	30
20	Ilimit_2	28
21	Ilimit_3	46
22	Heatflow_Offset_1	0,54
23	Heatflow_Offset_2	0,3
24	Heatflow_Offset_3	0,3
25	R_Heater_1	25,2
26	R_Heater_2	45,4
27	R_Heater_3	45,4
28	Volt_Max_Reduc_1	22,18
29	Volt_Max_Reduc_2	22,11
30	Volt_Max_Reduc_3	22,17
31	Volt_Max_Norm_1	22,18
32	Volt_Max_Norm_2	22,11
33	Volt_Max_Norm_3	22,17
34	KC1_1	0,07
35	KC1_2	0,11
36	KC1_3	0,42
37	Setpoint_Temp_1	-22,70
38	Setpoint_Temp_2	-20,20
39	Setpoint_Temp_3	-19,90
40	Sensor_Gain_Factor_1	-0,881
41	Sensor_Gain_Factor_2	-0,971
42	Sensor_Gain_Factor_3	-0,980
43	OBM_ATC_MAX_PWR	31,00
44	DAC1	0
45	DAC2	0
46	DAC3	0

EU

Parameter ID	ATC OBM Parameter	EU
1	Kp_11	**6**
2	Kp_12	
3	Kp_13	
4	Ki_11	**0,35**
5	Ki_12	
6	Ki_13	
7	Kp_21	
8	Kp_22	
9	Kp_23	
10	Ki_21	
11	Ki_22	
12	Ki_23	
13	Kp_31	
14	Kp_32	
15	Kp_33	**12**
16	Ki_31	
17	Ki_32	
18	Ki_33	**0,2**
19	Ilimit_1	**51**
20	Ilimit_2	**35**
21	Ilimit_3	**50**
22	Heatflow_Offset_1	
23	Heatflow_Offset_2	
24	Heatflow_Offset_3	
25	R_Heater_1	
26	R_Heater_2	
27	R_Heater_3	
28	Volt_Max_Reduc_1	**22,11**
29	Volt_Max_Reduc_2	**22,17**
30	Volt_Max_Reduc_3	**22,18**
31	Volt_Max_Norm_1	**22,11**
32	Volt_Max_Norm_2	**22,17**
33	Volt_Max_Norm_3	**22,18**
34	KC1_1	
35	KC1_2	
36	KC1_3	**0,11**
37	Setpoint_Temp_1	**-11,00**
38	Setpoint_Temp_2	**-17,40**
39	Setpoint_Temp_3	**-17,50**
40	Sensor_Gain_Factor_1	**-1,41**
41	Sensor_Gain_Factor_2	**-1,08**
42	Sensor_Gain_Factor_3	**-1,080**
43	OBM_ATC_MAX_PWR	
44	DAC1	**0,59**
45	DAC2	**0,9497**
46	DAC3	**0,03**

8.3.4 Mechanism Control Parameters

This table holds the parameters defining the pulse duration for the actuator drives.

Table Template:

MCMD: SET MECHANISMS CONTROL (IOM Reference A6.38)

Columns:

Mechanisms: gives the drive group and drive nomenclature
Drive pulse duration specifies the value of the parameter in seconds

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via fixed MCMD.

DCR/OCR	Issue date	issued by	Title
none			

Mechanism		Drive Pulse Duration
LAT Mechanisms	NC	0,30
	AS	0,30
	ND	0,30
MAD Mechanisms	AZ Cover	0000,0
	ELV Cover	0000,0
	SRC Door	0000,0

8.4 Command tables

All tables of this grouping are related to commanding of timing sequences and the definition of conditions, when these sequences are applicable. This covers the Relative Time Command Sequences (RTCS) and the tables specifying mode switching and non-mode switching MCMD's.

8.4.1 RTCS Table

This table holds a total of max. 1000 parameters defining the timing of the various RTCS. Presently 29 different tables of this class exist.

Table Template:

MCMD: SET RTCS (IOM Reference A6.43)

Columns:

Counter DEC:	entry number of the parameter in the RTCS pool
ΔTT HEX:	specifies the HEX-value of the delta time in ct (1/256 s)
CMD HEX:	specifies the HEX-value of the 16-bit header word of the primitive CMD used at this RTCS entry
Parameter Type :	specifies whether the delta time parameter is coded directly in delta time (immediate) or shall be taken from either the RTCS_WAITS table or the STATE_DURATION table
DT_ID:	supplementary information; gives the alphanumeric name of a parameter to be taken either from the RTCS_WAITS table or from the STATE_DURATION table
ΔTT DEC:	supplementary information; gives the alphanumeric name resp. the decimal value of the delta time
Destination:	supplementary information; gives the destination of the primitive CMD
CMD_Type:	supplementary information about the type of primitive CMD
Command_Header:	supplementary information; gives the alphanumeric name of the primitive CMD specified in column 'CMD HEX'
Note:	supplementary information; quotes at the start entry of the RTCS the abbreviated name of the RTCS or 'SPARE', when not used

At the bottom of each of the 20 tables for information purposes the duration of the specified RTCS is given (units are ct´s). To this sum the values of all 'WAITS' have to be added where applicable.

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via fixed MCMD.

DCR/OCR	Issue date	issued by	Title	RTCS table affected
DR-SCIA-0103DO/97	25.09.97	DSS	Modified state 65 with measurement data delivery	STT 07

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RTCS Table Table 1 of 20

Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
1	000C	0300	immediate		12	ICU	Direct_Cmd	NOP	NOP_RTCS
2	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
3	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
4	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
5	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
6	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
7	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
8	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
9	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
10	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
11	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
12	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
13	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
14	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
15	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
16	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
17	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
18	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
19	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
20	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
21	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
22	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
23	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
24	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
25	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
26	000C	030B	immediate		12	ICU	Direct_Cmd	PURGE_MCMD_QUEUE	RST_STB
27	0008	0335	immediate		8	ICU	Direct_Cmd	RESET_SW_INDICATION	0
28	0008	0312	immediate		8	ICU	Direct_Cmd	RESET_POWER_FAIL_SIGNAL	0
29	0008	0313	immediate		8	ICU	Direct_Cmd	RESET_OBDH_CLOCK_LOSS_SIGNAL	0
30	0008	0333	immediate		8	ICU	Direct_Cmd	ENABLE_SP_SW_LOAD	0
31	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
32	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
33	0021	0306	immediate		33	ICU	Direct_Cmd	ENABLE_BCPS	0
34	001C	031D	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STANDBY	0
35	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
36	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
37	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
38	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
39	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
40	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
41	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
42	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
43	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
44	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
45	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
46	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
47	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
48	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
49	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
50	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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RTCS Table **Table 2 of 20**

Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
51	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	GTO_SRI
52	0008	030B	immediate		8	ICU	Direct_Cmd	PURGE_MCMD_QUEUE	0
53	0008	0302	immediate		8	ICU	Direct_Cmd	OPEN_DHC_RELAY	0
54	0021	0318	immediate		33	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
55	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
56	0021	030D	immediate		33	ICU	Direct_Cmd	STOP_PMTC_LL	0
57	0008	030F	immediate		8	ICU	Direct_Cmd	STOP_SDPU_LL	0
58	0008	0304	immediate		8	ICU	Direct_Cmd	OPEN_LVL_23_RELAY	0
59	0021	0312	immediate		33	ICU	Direct_Cmd	RESET_POWER_FAIL_SIGNAL	0
60	0008	0306	immediate		8	ICU	Direct_Cmd	ENABLE_BCPS	0
61	001C	0333	immediate		28	ICU	Direct_Cmd	ENABLE_SP_SW_LOAD	0
62	0008	0314	immediate		8	ICU	Direct_Cmd	SELECT_HSM_DATA_RATE	0
63	0008	031F	immediate		8	ICU	Direct_Cmd	SET_CHECK_STATE_STB_REF_I	0
64	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
65	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
66	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
67	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
68	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
69	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
70	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
71	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
72	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
73	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
74	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
75	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
76	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	GTO_SRE
77	0008	030B	immediate		8	ICU	Direct_Cmd	PURGE_MCMD_QUEUE	0
78	0008	0302	immediate		8	ICU	Direct_Cmd	OPEN_DHC_RELAY	0
79	0021	0318	immediate		33	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
80	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
81	0021	030D	immediate		33	ICU	Direct_Cmd	STOP_PMTC_LL	0
82	0008	030F	immediate		8	ICU	Direct_Cmd	STOP_SDPU_LL	0
83	0008	0304	immediate		8	ICU	Direct_Cmd	OPEN_LVL_23_RELAY	0
84	0021	0312	immediate		33	ICU	Direct_Cmd	RESET_POWER_FAIL_SIGNAL	0
85	0008	0306	immediate		8	ICU	Direct_Cmd	ENABLE_BCPS	0
86	001C	0333	immediate		28	ICU	Direct_Cmd	ENABLE_SP_SW_LOAD	0
87	0008	0314	immediate		8	ICU	Direct_Cmd	SELECT_HSM_DATA_RATE	0
88	0008	0320	immediate		8	ICU	Direct_Cmd	SET_CHECK_STATE_STB_REF_E	0
89	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
90	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
91	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
92	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
93	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
94	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
95	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
96	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
97	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
98	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
99	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
100	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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RTCS Table Table 3 of 20

Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
101	000C	030B	immediate		12	ICU	Direct_Cmd	PURGE_MCMD_QUEUE	GTO_STB
102	0008	032B	immediate		8	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
103	0008	0302	immediate		8	ICU	Direct_Cmd	OPEN_DHC_RELAY	0
104	0021	0318	immediate		33	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
105	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
106	0021	030D	immediate		33	ICU	Direct_Cmd	STOP_PMTC_LL	0
107	0008	030F	immediate		8	ICU	Direct_Cmd	STOP_SDPU_LL	0
108	0008	0335	immediate		8	ICU	Direct_Cmd	RESET_SW_INDICATION	0
109	0008	0304	immediate		8	ICU	Direct_Cmd	OPEN_LVL_23_RELAY	0
110	0021	0301	immediate		33	ICU	Direct_Cmd	CLOSE_EQSOL_RELAY	0
111	0021	0312	immediate		33	ICU	Direct_Cmd	RESET_POWER_FAIL_SIGNAL	0
112	0008	0333	immediate		8	ICU	Direct_Cmd	ENABLE_SP_SW_LOAD	0
113	0008	0306	immediate		8	ICU	Direct_Cmd	ENABLE_BCPS	0
114	001C	0314	immediate		28	ICU	Direct_Cmd	SELECT_HSM_DATA_RATE	0
115	0008	031D	immediate		8	ICU	Direct_Cmd	SET_CHECK_STATE_STANDBY	0
116	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
117	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
118	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
119	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
120	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
121	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
122	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
123	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
124	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
125	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
126	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	STB_DEC
127	0008	0303	immediate		8	ICU	Direct_Cmd	CLOSE_DHC_RELAY	0
128	0021	031E	immediate		33	ICU	Direct_Cmd	SET_CHECK_STATE_DECONT	0
129	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
130	8005	03FF	in_parameter_pool	WSD	WSD	ICU	Direct_Cmd	TERMINATE_RTCS	0
131	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
132	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
133	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
134	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
135	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
136	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
137	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
138	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
139	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
140	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
141	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
142	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
143	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
144	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
145	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
146	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
147	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
148	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
149	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
150	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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RTCS Table **Table 4 of 20**

Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
151	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	STB_HTR
152	0008	0333	immediate		8	ICU	Direct_Cmd	ENABLE_SP_SW_LOAD	0
153	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
154	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
155	0021	030C	immediate		33	ICU	Direct_Cmd	START_PMTC_LL	0
156	0200	030E	immediate		512	ICU	Direct_Cmd	START_SDPU_LL	0
157	0200	0301	immediate		512	ICU	Direct_Cmd	CLOSE_EQSOL_RELAY	0
158	0021	0305	immediate		33	ICU	Direct_Cmd	CLOSE_LVL_23_RELAY	0
159	0200	0312	immediate		512	ICU	Direct_Cmd	RESET_POWER_FAIL_SIGNAL	0
160	0008	0306	immediate		8	ICU	Direct_Cmd	ENABLE_BCPS	0
161	001C	1009	immediate		28	PMTC	Mode_Switching_Cmd	INITIALISE	0
162	0B60	0319	immediate		2912	ICU	Direct_Cmd	GET_PMTC_SELFTEST_REPORT	0
163	0008	2007	immediate		8	SDPU	Mode_Switching_Cmd	INITIALISE	0
164	0B36	031A	immediate		2870	ICU	Direct_Cmd	GET_SDPU_SELFTEST_REPORT	0
165	0008	220B	immediate		8	SDPU	Auxiliary_Cmd	SELFTEST	0
166	7FFF	0300	immediate		32767	ICU	Direct_Cmd	NOP	0
167	7FFF	0300	immediate		32767	ICU	Direct_Cmd	NOP	0
168	022F	031A	immediate		559	ICU	Direct_Cmd	GET_SDPU_SELFTEST_REPORT	0
169	0008	0326	immediate		8	ICU	Direct_Cmd	SET_CHECK_STATE_PTC_WAIT	0
170	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
171	8008	032B	in_parameter_pool	WSP	WSP	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
172	0008	200A	immediate		8	SDPU	Mode_Switching_Cmd	RESET_MODE	0
173	039C	1018	immediate		924	PMTC	Mode_Switching_Cmd	RESET_MODE	0
174	0200	0323	immediate		512	ICU	Direct_Cmd	SET_CHECK_STATE_HTR_WT0	0
175	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
176	8002	032B	in_parameter_pool	WSH0	WSH0	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
177	0008	1228	immediate		8	PMTC	Auxiliary_Cmd	UPDATE_ATC_OBM_PARAMETERS	0
178	0043	122D	immediate		67	PMTC	Auxiliary_Cmd	UPDATE_TC_SRC_PARAMETERS	0
179	0038	122E	immediate		56	PMTC	Auxiliary_Cmd	UPDATE_TC_TB_PARAMETERS	0
180	0038	122B	immediate		56	PMTC	Auxiliary_Cmd	UPDATE_SCAN_CONSTANTS	0
181	0043	122C	immediate		67	PMTC	Auxiliary_Cmd	UPDATE_SCAN_CTRL_PARAMETERS	0
182	003C	122A	immediate		60	PMTC	Auxiliary_Cmd	UPDATE_MECH_PARAMETERS	0
183	0039	1105	immediate		57	PMTC	Setup_Cmd	ATC_OBM_ON	0
184	0138	0324	immediate		312	ICU	Direct_Cmd	SET_CHECK_STATE_HTR_WT1	0
185	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
186	8003	032B	in_parameter_pool	WSH1	WSH1	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
187	0008	1131	immediate		8	PMTC	Setup_Cmd	ATC_OBM_NORMAL_HTR_PWR_LIMITS	0
188	0138	1125	immediate		312	PMTC	Setup_Cmd	TC_SRC_COLD_STAGE_ON	0
189	0138	1127	immediate		312	PMTC	Setup_Cmd	TC_THERMAL_BUS_ON	0
190	0138	0325	immediate		312	ICU	Direct_Cmd	SET_CHECK_STATE_HTR_WT2	0
191	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
192	8004	032B	in_parameter_pool	WSH2	WSH2	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
193	0008	1106	immediate		8	PMTC	Setup_Cmd	BASIC_SCAN_PROFILES	0
194	004E	1119	immediate		78	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
195	0038	111B	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
196	1004	1119	immediate		4100	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
197	0038	111B	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
198	1004	110A	immediate		4100	PMTC	Setup_Cmd	NADIR_CAL_WINDOW_CLOSE	0
199	0084	1102	immediate		132	PMTC	Setup_Cmd	APERTURE_STOP_LARGE	0
200	0084	110D	immediate		132	PMTC	Setup_Cmd	ND_FILTER_OUT	0

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
201	0084	0327	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_HTR	0
202	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
203	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
204	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
205	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
206	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
207	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
208	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
209	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
210	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
211	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
212	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
213	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
214	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
215	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
216	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
217	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
218	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
219	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
220	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
221	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
222	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
223	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
224	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
225	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
226	000C	031B	immediate		12	ICU	Direct_Cmd	SAVE_CHECK_STATE	UPD_ATC
227	0008	032B	immediate		8	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
228	0008	111A	immediate		8	PMTC	Setup_Cmd	SCANNER_AZ_OFF	0
229	0038	111C	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_OFF	0
230	0038	1104	immediate		56	PMTC	Setup_Cmd	ATC_OBM_OFF	0
231	0138	1124	immediate		312	PMTC	Setup_Cmd	TC_SRC_COLD_STAGE_OFF	0
232	0138	1126	immediate		312	PMTC	Setup_Cmd	TC_THERMAL_BUS_OFF	0
233	0138	1228	immediate		312	PMTC	Auxiliary_Cmd	UPDATE_ATC_OBM_PARAMETERS	0
234	0043	122D	immediate		67	PMTC	Auxiliary_Cmd	UPDATE_TC_SRC_PARAMETERS	0
235	0038	122E	immediate		56	PMTC	Auxiliary_Cmd	UPDATE_TC_TB_PARAMETERS	0
236	0038	1105	immediate		56	PMTC	Setup_Cmd	ATC_OBM_ON	0
237	0138	1131	immediate		312	PMTC	Setup_Cmd	ATC_OBM_NORMAL_HTR_PWR_LIMITS	0
238	0138	1125	immediate		312	PMTC	Setup_Cmd	TC_SRC_COLD_STAGE_ON	0
239	0138	1127	immediate		312	PMTC	Setup_Cmd	TC_THERMAL_BUS_ON	0
240	0138	122B	immediate		312	PMTC	Auxiliary_Cmd	UPDATE_SCAN_CONSTANTS	0
241	0043	122C	immediate		67	PMTC	Auxiliary_Cmd	UPDATE_SCAN_CTRL_PARAMETERS	0
242	003C	122A	immediate		60	PMTC	Auxiliary_Cmd	UPDATE_MECH_PARAMETERS	0
243	0039	1119	immediate		57	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
244	0038	111B	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
245	1004	1119	immediate		4100	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
246	0038	111B	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
247	1004	031C	immediate		4100	ICU	Direct_Cmd	RESET_CHECK_STATE	0
248	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
249	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
250	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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S:\TABLE\PFM\EEPROM\WORK_AR.EA\Compare\[RTCS_Wait.xls]Compare RTCS Table **Table 6 of 20**

Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
251	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	GTO_HRF
252	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
253	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
254	0021	030D	immediate		33	ICU	Direct_Cmd	STOP_PMTC_LL	0
255	0008	030F	immediate		8	ICU	Direct_Cmd	STOP_SDPU_LL	0
256	0008	0309	immediate		8	ICU	Direct_Cmd	RESET_PMTC	0
257	0200	0308	immediate		512	ICU	Direct_Cmd	RESET_SDPU	0
258	00B4	030E	immediate		180	ICU	Direct_Cmd	START_SDPU_LL	0
259	00B4	030C	immediate		180	ICU	Direct_Cmd	START_PMTC_LL	0
260	0200	0306	immediate		512	ICU	Direct_Cmd	ENABLE_BCPS	0
261	001C	0314	immediate		28	ICU	Direct_Cmd	SELECT_HSM_DATA_RATE	0
262	0008	0321	immediate		8	ICU	Direct_Cmd	SET_CHECK_STATE_HTR_REF	0
263	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
264	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
265	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
266	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
267	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
268	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
269	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
270	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
271	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
272	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
273	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
274	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
275	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
276	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	MSR_HTR
277	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
278	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
279	0021	0306	immediate		33	ICU	Direct_Cmd	ENABLE_BCPS	0
280	001C	200A	immediate		28	SDPU	Mode_Switching_Cmd	RESET_MODE	0
281	0008	1018	immediate		8	PMTC	Mode_Switching_Cmd	RESET_MODE	0
282	1E65	1105	immediate		7781	PMTC	Setup_Cmd	ATC_OBM_ON	0
283	0138	1131	immediate		312	PMTC	Setup_Cmd	ATC_OBM_NORMAL_HTR_PWR_LIMITS	0
284	0138	1125	immediate		312	PMTC	Setup_Cmd	TC_SRC_COLD_STAGE_ON	0
285	0138	1127	immediate		312	PMTC	Setup_Cmd	TC_THERMAL_BUS_ON	0
286	0138	110A	immediate		312	PMTC	Setup_Cmd	NADIR_CAL_WINDOW_CLOSE	0
287	0084	1102	immediate		132	PMTC	Setup_Cmd	APERTURE_STOP_LARGE	0
288	0084	110D	immediate		132	PMTC	Setup_Cmd	ND_FILTER_OUT	0
289	0084	0314	immediate		132	ICU	Direct_Cmd	SELECT_HSM_DATA_RATE	0
290	0008	0327	immediate		8	ICU	Direct_Cmd	SET_CHECK_STATE_HTR	0
291	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
292	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
293	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
294	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
295	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
296	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
297	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
298	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
299	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
300	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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RTCS Table **Table 7 of 20**

Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
301	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	HRF_HTR
302	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
303	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
304	0021	0306	immediate		33	ICU	Direct_Cmd	ENABLE_BCPS	0
305	001C	1009	immediate		28	PMTC	Mode_Switching_Cmd	INITIALISE	0
306	0B60	0319	immediate		2912	ICU	Direct_Cmd	GET_PMTC_SELFTEST_REPORT	0
307	0008	2007	immediate		8	SDPU	Mode_Switching_Cmd	INITIALISE	0
308	0B36	031A	immediate		2870	ICU	Direct_Cmd	GET_SDPU_SELFTEST_REPORT	0
309	0008	0333	immediate		8	ICU	Direct_Cmd	ENABLE_SP_SW_LOAD	0
310	0008	200A	immediate		8	SDPU	Mode_Switching_Cmd	RESET_MODE	0
311	039C	1018	immediate		924	PMTC	Mode_Switching_Cmd	RESET_MODE	0
312	0200	1228	immediate		512	PMTC	Auxiliary_Cmd	UPDATE_ATC_OBM_PARAMETERS	0
313	0043	122D	immediate		67	PMTC	Auxiliary_Cmd	UPDATE_TC_SRC_PARAMETERS	0
314	0038	122E	immediate		56	PMTC	Auxiliary_Cmd	UPDATE_TC_TB_PARAMETERS	0
315	0038	122B	immediate		56	PMTC	Auxiliary_Cmd	UPDATE_SCAN_CONSTANTS	0
316	0043	122C	immediate		67	PMTC	Auxiliary_Cmd	UPDATE_SCAN_CTRL_PARAMETERS	0
317	003C	122A	immediate		60	PMTC	Auxiliary_Cmd	UPDATE_MECH_PARAMETERS	0
318	0039	1105	immediate		57	PMTC	Setup_Cmd	ATC_OBM_ON	0
319	0138	0324	immediate		312	ICU	Direct_Cmd	SET_CHECK_STATE_HTR_WT1	0
320	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
321	8006	032B	in_parameter_pool	WRH1	WRH1	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
322	0008	1131	immediate		8	PMTC	Setup_Cmd	ATC_OBM_NORMAL_HTR_PWR_LIMITS	0
323	0138	1125	immediate		312	PMTC	Setup_Cmd	TC_SRC_COLD_STAGE_ON	0
324	0138	1127	immediate		312	PMTC	Setup_Cmd	TC_THERMAL_BUS_ON	0
325	0138	0325	immediate		312	ICU	Direct_Cmd	SET_CHECK_STATE_HTR_WT2	0
326	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
327	8007	032B	in_parameter_pool	WRH2	WRH2	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
328	0008	1119	immediate		8	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
329	0038	111B	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
330	1004	1119	immediate		4100	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
331	0038	111B	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
332	1004	110A	immediate		4100	PMTC	Setup_Cmd	NADIR_CAL_WINDOW_CLOSE	0
333	0084	1102	immediate		132	PMTC	Setup_Cmd	APERTURE_STOP_LARGE	0
334	0084	110D	immediate		132	PMTC	Setup_Cmd	ND_FILTER_OUT	0
335	0084	0327	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_HTR	0
336	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
337	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
338	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
339	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
340	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
341	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
342	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
343	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
344	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
345	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
346	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
347	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
348	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
349	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
350	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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RTCS Table **Table 8 of 20**

Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
351	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	SPR_INI
352	0008	1009	immediate		8	PMTC	Mode_Switching_Cmd	INITIALISE	0
353	0B60	0319	immediate		2912	ICU	Direct_Cmd	GET_PMTC_SELFTEST_REPORT	0
354	0008	2007	immediate		8	SDPU	Mode_Switching_Cmd	INITIALISE	0
355	0B36	031A	immediate		2870	ICU	Direct_Cmd	GET_SDPU_SELFTEST_REPORT	0
356	0008	032A	immediate		8	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_1	0
357	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
358	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
359	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
360	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
361	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
362	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
363	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
364	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
365	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
366	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
367	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
368	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
369	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
370	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
371	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
372	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
373	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
374	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
375	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
376	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	SPR_RES
377	0008	0333	immediate		8	ICU	Direct_Cmd	ENABLE_SP_SW_LOAD	0
378	0008	030D	immediate		8	ICU	Direct_Cmd	STOP_PMTC_LL	0
379	0008	030F	immediate		8	ICU	Direct_Cmd	STOP_SDPU_LL	0
380	0008	0309	immediate		8	ICU	Direct_Cmd	RESET_PMTC	0
381	0200	0308	immediate		512	ICU	Direct_Cmd	RESET_SDPU	0
382	00B4	030E	immediate		180	ICU	Direct_Cmd	START_SDPU_LL	0
383	00B4	030C	immediate		180	ICU	Direct_Cmd	START_PMTC_LL	0
384	0200	0321	immediate		512	ICU	Direct_Cmd	SET_CHECK_STATE_HTR_REF	0
385	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
386	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
387	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
388	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
389	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
390	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
391	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
392	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
393	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
394	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
395	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
396	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
397	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
398	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
399	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
400	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

5826 SPR_INI

1436 SPR_RES

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
401	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	STR_TML
402	0008	1106	immediate		8	PMTC	Setup_Cmd	BASIC_SCAN_PROFILES	0
403	004E	1112	immediate		78	PMTC	Setup_Cmd	RELATIVE_SCAN_PROFILE_1	0
404	0052	1113	immediate		82	PMTC	Setup_Cmd	RELATIVE_SCAN_PROFILE_2	0
405	0052	1114	immediate		82	PMTC	Setup_Cmd	RELATIVE_SCAN_PROFILE_3	0
406	0052	1115	immediate		82	PMTC	Setup_Cmd	RELATIVE_SCAN_PROFILE_4	0
407	0052	1116	immediate		82	PMTC	Setup_Cmd	RELATIVE_SCAN_PROFILE_5	0
408	0052	1117	immediate		82	PMTC	Setup_Cmd	RELATIVE_SCAN_PROFILE_6	0
409	0052	1123	immediate		82	PMTC	Setup_Cmd	TARGET_POSITION	0
410	0039	2205	immediate		57	SDPU	Auxiliary_Cmd	HSM_IF_ON	0
411	0032	0328	immediate		50	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
412	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
413	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
414	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
415	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
416	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
417	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
418	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
419	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
420	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
421	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
422	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
423	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
424	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
425	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
426	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
427	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
428	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
429	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
430	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
431	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
432	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
433	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
434	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
435	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
436	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
437	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
438	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
439	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
440	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
441	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
442	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
443	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
444	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
445	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
446	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
447	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
448	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
449	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
450	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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RTCS Table **Table 10 of 20**

Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
451	000C	032B	immediate		12	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	HRP_HTR
452	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
453	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
454	0021	0306	immediate		33	ICU	Direct_Cmd	ENABLE_BCPS	0
455	001C	0333	immediate		28	ICU	Direct_Cmd	ENABLE_SP_SW_LOAD	0
456	0008	200A	immediate		8	SDPU	Mode_Switching_Cmd	RESET_MODE	0
457	039C	1018	immediate		924	PMTC	Mode_Switching_Cmd	RESET_MODE	0
458	0200	1228	immediate		512	PMTC	Auxiliary_Cmd	UPDATE_ATC_OBM_PARAMETERS	0
459	0043	122D	immediate		67	PMTC	Auxiliary_Cmd	UPDATE_TC_SRC_PARAMETERS	0
460	0038	122E	immediate		56	PMTC	Auxiliary_Cmd	UPDATE_TC_TB_PARAMETERS	0
461	0038	122B	immediate		56	PMTC	Auxiliary_Cmd	UPDATE_SCAN_CONSTANTS	0
462	0043	122C	immediate		67	PMTC	Auxiliary_Cmd	UPDATE_SCAN_CTRL_PARAMETERS	0
463	003C	122A	immediate		60	PMTC	Auxiliary_Cmd	UPDATE_MECH_PARAMETERS	0
464	0039	1105	immediate		57	PMTC	Setup_Cmd	ATC_OBM_ON	0
465	0138	0324	immediate		312	ICU	Direct_Cmd	SET_CHECK_STATE_HTR_WT1	0
466	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
467	8006	032B	in_parameter_pool	WRH1	WRH1	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
468	0008	1131	immediate		8	PMTC	Setup_Cmd	ATC_OBM_NORMAL_HTR_PWR_LIMITS	0
469	0138	1125	immediate		312	PMTC	Setup_Cmd	TC_SRC_COLD_STAGE_ON	0
470	0138	1127	immediate		312	PMTC	Setup_Cmd	TC_THERMAL_BUS_ON	0
471	0138	0325	immediate		312	ICU	Direct_Cmd	SET_CHECK_STATE_HTR_WT2	0
472	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
473	8007	032B	in_parameter_pool	WRH2	WRH2	ICU	Direct_Cmd	SET_CHECK_STATE_SPARE_2	0
474	0008	1119	immediate		8	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
475	0038	111B	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
476	1004	1119	immediate		4100	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
477	0038	111B	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
478	1004	110A	immediate		4100	PMTC	Setup_Cmd	NADIR_CAL_WINDOW_CLOSE	0
479	0084	1102	immediate		132	PMTC	Setup_Cmd	APERTURE_STOP_LARGE	0
480	0084	110D	immediate		132	PMTC	Setup_Cmd	ND_FILTER_OUT	0
481	0084	0327	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_HTR	0
482	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
483	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
484	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
485	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
486	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
487	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
488	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
489	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
490	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
491	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
492	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
493	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
494	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
495	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
496	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
497	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
498	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
499	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
500	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
501	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_11
502	0008	1103	immediate		8	PMTC	Setup_Cmd	APERTURE_STOP_SMALL	0
503	0084	111D	immediate		132	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
504	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
505	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
506	03A7	2103	immediate		935	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
507	006C	0307	immediate		108	ICU	Direct_Cmd	DISABLE_BCPS	0
508	0014	210E	immediate		20	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
509	0011	1022	immediate		17	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
510	002A	200F	immediate		42	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1406
511	000E	1130	immediate		14	PMTC	Setup_Cmd	WLS_LAMP_ON	0
512	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
513	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
514	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
515	00D9	032C	immediate		217	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
516	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
517	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
518	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
519	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
520	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
521	0021	112F	immediate		33	PMTC	Setup_Cmd	WLS_LAMP_OFF	0
522	0041	0300	immediate		65	ICU	Direct_Cmd	NOP	0
523	8001	1102	in_parameter_pool	WSR	WSR	PMTC	Setup_Cmd	APERTURE_STOP_LARGE	0
524	0084	0328	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
525	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
526	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_14
527	0008	1103	immediate		8	PMTC	Setup_Cmd	APERTURE_STOP_SMALL	0
528	0084	111D	immediate		132	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
529	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
530	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
531	03A7	2103	immediate		935	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
532	006C	0307	immediate		108	ICU	Direct_Cmd	DISABLE_BCPS	0
533	0014	210E	immediate		20	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
534	0011	1022	immediate		17	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
535	002A	200F	immediate		42	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1406
536	000E	0300	immediate		14	ICU	Direct_Cmd	NOP	0
537	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
538	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
539	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
540	00D9	032C	immediate		217	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
541	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
542	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
543	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
544	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
545	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
546	0021	0300	immediate		33	ICU	Direct_Cmd	NOP	0
547	0041	0300	immediate		65	ICU	Direct_Cmd	NOP	0
548	8001	1102	in_parameter_pool	WSR	WSR	PMTC	Setup_Cmd	APERTURE_STOP_LARGE	0
549	0084	0328	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
550	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0

2051 +WSR+WM STT_11

2051 +WSR+WM STT_14

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
551	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_01
552	0008	111D	immediate		8	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
553	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
554	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
555	00BC	2103	immediate		188	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
556	0080	210E	immediate		128	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
557	0027	0307	immediate		39	ICU	Direct_Cmd	DISABLE_BCPS	0
558	0014	200F	immediate		20	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	527
559	000E	1022	immediate		14	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
560	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
561	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
562	0008	032C	immediate		8	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
563	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
564	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
565	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
566	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
567	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
568	0021	0300	immediate		33	ICU	Direct_Cmd	NOP	0
569	8001	0328	in_parameter_pool	WSR	WSR	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
570	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
571	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
572	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
573	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
574	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
575	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
576	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
577	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
578	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
579	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
580	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
581	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
582	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
583	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
584	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
585	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
586	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
587	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
588	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
589	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
590	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
591	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
592	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
593	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
594	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
595	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
596	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
597	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
598	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
599	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
600	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

758 +WSR+WM STT_01

0 STT_01_Tes

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
601	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_02
602	0008	1103	immediate		8	PMTC	Setup_Cmd	APERTURE_STOP_SMALL	0
603	0084	110C	immediate		132	PMTC	Setup_Cmd	ND_FILTER_IN	0
604	0084	111D	immediate		132	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
605	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
606	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
607	00BC	2103	immediate		188	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
608	0080	210E	immediate		128	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
609	0027	0307	immediate		39	ICU	Direct_Cmd	DISABLE_BCPS	0
610	0014	200F	immediate		20	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	791
611	000E	1022	immediate		14	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
612	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
613	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
614	0008	032C	immediate		8	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
615	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
616	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
617	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
618	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
619	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
620	0021	0300	immediate		33	ICU	Direct_Cmd	NOP	0
621	8001	1102	in_parameter_pool	WSR	WSR	PMTC	Setup_Cmd	APERTURE_STOP_LARGE	0
622	0084	110D	immediate		132	PMTC	Setup_Cmd	ND_FILTER_OUT	0
623	0084	0328	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
624	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
625	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
626	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
627	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
628	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
629	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
630	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
631	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
632	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
633	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
634	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
635	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
636	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
637	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
638	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
639	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
640	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
641	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
642	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
643	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
644	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
645	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
646	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
647	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
648	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
649	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
650	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
651	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_03
652	0008	110B	immediate		8	PMTC	Setup_Cmd	NADIR_CAL_WINDOW_OPEN	0
653	0084	1103	immediate		132	PMTC	Setup_Cmd	APERTURE_STOP_SMALL	0
654	0084	110C	immediate		132	PMTC	Setup_Cmd	ND_FILTER_IN	0
655	0084	111D	immediate		132	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
656	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
657	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
658	012F	2103	immediate		303	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
659	0080	210E	immediate		128	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
660	0027	0307	immediate		39	ICU	Direct_Cmd	DISABLE_BCPS	0
661	0014	200F	immediate		20	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1038
662	000E	1022	immediate		14	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
663	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
664	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
665	0008	032C	immediate		8	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
666	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
667	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
668	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
669	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
670	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
671	0021	0300	immediate		33	ICU	Direct_Cmd	NOP	0
672	8001	110A	in_parameter_pool	WSR	WSR	PMTC	Setup_Cmd	NADIR_CAL_WINDOW_CLOSE	0
673	0084	1102	immediate		132	PMTC	Setup_Cmd	APERTURE_STOP_LARGE	0
674	0084	110D	immediate		132	PMTC	Setup_Cmd	ND_FILTER_OUT	0
675	0084	0328	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
676	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
677	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
678	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
679	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
680	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
681	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
682	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
683	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
684	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
685	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
686	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
687	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
688	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
689	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
690	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
691	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
692	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
693	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
694	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
695	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
696	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
697	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
698	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
699	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
700	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
701	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_04
702	0008	111D	immediate		8	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
703	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
704	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
705	03A7	2103	immediate		935	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
706	006C	0307	immediate		108	ICU	Direct_Cmd	DISABLE_BCPS	0
707	0014	210E	immediate		20	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
708	0011	1022	immediate		17	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
709	002A	200F	immediate		42	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1274
710	000E	1121	immediate		14	PMTC	Setup_Cmd	SLS_LAMP_ON	0
711	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
712	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
713	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
714	0019	032C	immediate		25	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
715	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
716	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
717	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
718	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
719	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
720	0021	1120	immediate		33	PMTC	Setup_Cmd	SLS_LAMP_OFF	0
721	0041	0300	immediate		65	ICU	Direct_Cmd	NOP	0
722	8001	0328	in_parameter_pool	WSR	WSR	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
723	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
724	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
725	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
726	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_12
727	0008	111D	immediate		8	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
728	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
729	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
730	03A7	2103	immediate		935	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
731	006C	0307	immediate		108	ICU	Direct_Cmd	DISABLE_BCPS	0
732	0014	210E	immediate		20	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
733	0011	1022	immediate		17	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
734	002A	200F	immediate		42	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1274
735	000E	0300	immediate		14	ICU	Direct_Cmd	NOP	0
736	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
737	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
738	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
739	0019	032C	immediate		25	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
740	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
741	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
742	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
743	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
744	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
745	0021	0300	immediate		33	ICU	Direct_Cmd	NOP	0
746	0041	0300	immediate		65	ICU	Direct_Cmd	NOP	0
747	8001	0328	in_parameter_pool	WSR	WSR	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
748	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
749	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
750	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

1595 +WSR+WM STT_04

1595 +WSR+WM STT_12

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
751	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_05
752	0008	111D	immediate		8	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
753	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
754	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
755	03A7	2103	immediate		935	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
756	006C	0307	immediate		108	ICU	Direct_Cmd	DISABLE_BCPS	0
757	0014	210E	immediate		20	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
758	0011	1022	immediate		17	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
759	002A	200F	immediate		42	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1274
760	000E	1130	immediate		14	PMTC	Setup_Cmd	WLS_LAMP_ON	0
761	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
762	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
763	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
764	00D9	032C	immediate		217	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
765	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
766	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
767	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
768	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
769	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
770	0021	112F	immediate		33	PMTC	Setup_Cmd	WLS_LAMP_OFF	0
771	0041	0300	immediate		65	ICU	Direct_Cmd	NOP	0
772	8001	0328	in_parameter_pool	WSR	WSR	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
773	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
774	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
775	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
776	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_13
777	0008	111D	immediate		8	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
778	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
779	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
780	03A7	2103	immediate		935	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
781	006C	0307	immediate		108	ICU	Direct_Cmd	DISABLE_BCPS	0
782	0014	210E	immediate		20	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
783	0011	1022	immediate		17	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
784	002A	200F	immediate		42	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1274
785	000E	0300	immediate		14	ICU	Direct_Cmd	NOP	0
786	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
787	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
788	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
789	00D9	032C	immediate		217	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
790	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
791	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
792	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
793	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
794	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
795	0021	0300	immediate		33	ICU	Direct_Cmd	NOP	0
796	0041	0300	immediate		65	ICU	Direct_Cmd	NOP	0
797	8001	0328	in_parameter_pool	WSR	WSR	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
798	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
799	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
800	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

1787 +WSR+WM STT_05

1787 +WSR+WM STT_13

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT ΔEX	Destination	CMD_Type	COMMAND HEADER	Note
801	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_06
802	0008	110C	immediate		8	PMTC	Setup_Cmd	ND_FILTER_IN	0
803	0084	111D	immediate		132	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
804	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
805	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
806	036F	2103	immediate		879	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
807	0080	210E	immediate		128	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
808	0027	0307	immediate		39	ICU	Direct_Cmd	DISABLE_BCPS	0
809	0014	200F	immediate		20	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	0
810	000E	1022	immediate		14	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
811	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
812	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
813	0008	032C	immediate		8	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
814	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
815	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
816	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
817	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
818	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
819	0021	0300	immediate		33	ICU	Direct_Cmd	NOP	0
820	8001	110D	in_parameter_pool	WSR	WSR	PMTC	Setup_Cmd	ND_FILTER_OUT	0
821	0084	0328	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
822	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
823	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
824	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
825	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
826	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
827	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
828	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
829	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
830	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
831	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
832	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
833	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
834	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
835	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
836	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
837	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
838	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
839	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
840	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
841	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
842	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
843	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
844	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
845	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
846	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
847	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
848	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
849	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
850	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT ΔEX	Destination	CMD_Type	COMMAND HEADER	Note
851	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_07
852	0008	1119	immediate		8	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
853	0038	111B	immediate		56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
854	1004	0307	immediate		4100	ICU	Direct_Cmd	DISABLE_BCPS	0
855	0014	2001	immediate		20	SDPU	Mode_Switching_Cmd	ADC_CALIBRATION	0
856	0036	0306	immediate		54	ICU	Direct_Cmd	ENABLE_BCPS	0
857	001C	0300	immediate		28	ICU	Direct_Cmd	NOP	0
858	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
859	8000	0328	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
860	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
861	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
862	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
863	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
864	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
865	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
866	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
867	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
868	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
869	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
870	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
871	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
872	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
873	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
874	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
875	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
876	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
877	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
878	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
879	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
880	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
881	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
882	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
883	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
884	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
885	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
886	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
887	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
888	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
889	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
890	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
891	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
892	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
893	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
894	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
895	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
896	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
897	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
898	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
899	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
900	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

RTCS Table

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT ΔEX	Destination	CMD_Type	COMMAND HEADER	Note
851									
852		0307				ICU	Direct_Cmd	DISABLE_BCPS	
853	0014	2001			20	SDPU	Mode_Switching_Cmd	ADC_CALIBRATION	
854	0036	0306			54			ENABLE_BCPS	
855	001C	0300			28	ICU	Direct_Cmd	NOP	
856	0101	0300			257			NOP	
857	0101	111D			257	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	
858	0045	1201			69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	
859	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	
860	00BC	2103			188	SDPU	Setup_Cmd	CLUSTER_DEFINITION	
861	0080	210E			128	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
862	0027	0307			39			DISABLE_BCPS	0
863	0014	200F			20	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1143
864	000E	1022			14	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
865	0038	0317			56			PMTC_CYCLIC_ANCILLARY_DATA_ON	0
866	0008	0315			8			SDPU_CYCLIC_ANCILLARY_DATA_ON	0
867	0008	032C			8			COND_ENABLE_BCPS	0
868	001C	0300			28			NOP	0
869	0008	0300			8			NOP	0
870	8000	0300	in_parameter_pool	WM	WM			NOP	0
871	0008	0318			8			PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
872	003C	0316			60			SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
873	0021	0300			33			NOP	0
874	8001	1119	in_parameter_pool	WSR	WSR	PMTC	Setup_Cmd	SCANNER_AZ_ON	0
875	0038	111B			56	PMTC	Setup_Cmd	SCANNER_ELV_ON	0
876	1004	0328			4100			SET_CHECK_STATE_IDLE	0
877	0008	03FF			8			TERMINATE_RTCS	0
878									
879									
880									
881									
882									
883									
884									
885									
886									
887									
888									
889									
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900									

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
901	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_10
902	0008	110C	immediate		8	PMTC	Setup_Cmd	ND_FILTER_IN	0
903	0084	111D	immediate		132	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
904	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
905	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
906	03A7	2103	immediate		935	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
907	006C	0307	immediate		108	ICU	Direct_Cmd	DISABLE_BCPS	0
908	0014	210E	immediate		20	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
909	0011	1022	immediate		17	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
910	002A	200F	immediate		42	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1406
911	000E	1130	immediate		14	PMTC	Setup_Cmd	WLS_LAMP_ON	0
912	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
913	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
914	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
915	00D9	032C	immediate		217	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
916	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
917	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
918	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
919	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
920	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
921	0021	112F	immediate		33	PMTC	Setup_Cmd	WLS_LAMP_OFF	0
922	0041	0300	immediate		65	ICU	Direct_Cmd	NOP	0
923	8001	110D	in_parameter_pool	WSR	WSR	PMTC	Setup_Cmd	ND_FILTER_OUT	0
924	0084	0328	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
925	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
926	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_15
927	0008	110C	immediate		8	PMTC	Setup_Cmd	ND_FILTER_IN	0
928	0084	111D	immediate		132	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
929	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
930	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
931	03A7	2103	immediate		935	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
932	006C	0307	immediate		108	ICU	Direct_Cmd	DISABLE_BCPS	0
933	0014	210E	immediate		20	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
934	0011	1022	immediate		17	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
935	002A	200F	immediate		42	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1406
936	000E	0300	immediate		14	ICU	Direct_Cmd	NOP	0
937	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
938	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
939	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
940	00D9	032C	immediate		217	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
941	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
942	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
943	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
944	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
945	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
946	0021	0300	immediate		33	ICU	Direct_Cmd	NOP	0
947	0041	0300	immediate		65	ICU	Direct_Cmd	NOP	0
948	8001	110D	in_parameter_pool	WSR	WSR	PMTC	Setup_Cmd	ND_FILTER_OUT	0
949	0084	0328	immediate		132	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
950	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0

2051 +WSR+WM STT_10

2051 +WSR+WM STT_15

RTCS Table

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Counter DEC	ΔTT HEX	CMD HEX	Param_Type	DT_ID	ΔTT DEC	Destination	CMD_Type	COMMAND HEADER	Note
951	000F	0322	immediate		15	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	STT_09
952	0008	111D	immediate		8	PMTC	Setup_Cmd	SCANNER_MODE_PARAMETERS	0
953	0045	1201	immediate		69	PMTC	Auxiliary_Cmd	ANCILLARY_DATA	0
954	003C	111F	immediate		60	PMTC	Setup_Cmd	SETUP_MEASUREMENT	0
955	036F	2103	immediate		879	SDPU	Setup_Cmd	CLUSTER_DEFINITION	0
956	0080	210E	immediate		128	SDPU	Setup_Cmd	SETUP_MEASUREMENT	0
957	0027	0307	immediate		39	ICU	Direct_Cmd	DISABLE_BCPS	0
958	0014	200F	immediate		20	SDPU	Mode_Switching_Cmd	START_MEASUREMENT	1218
959	000E	1022	immediate		14	PMTC	Mode_Switching_Cmd	START_MEASUREMENT	0
960	0038	0317	immediate		56	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_ON	0
961	0008	0315	immediate		8	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_ON	0
962	0008	032C	immediate		8	ICU	Direct_Cmd	COND_ENABLE_BCPS	0
963	001C	0329	immediate		28	ICU	Direct_Cmd	SET_CHECK_STATE_STATE	0
964	0008	0300	immediate		8	ICU	Direct_Cmd	NOP	0
965	8000	0322	in_parameter_pool	WM	WM	ICU	Direct_Cmd	SET_CHECK_STATE_TRANS	0
966	0008	0318	immediate		8	ICU	Direct_Cmd	PMTC_CYCLIC_ANCILLARY_DATA_OFF	0
967	003C	0316	immediate		60	ICU	Direct_Cmd	SDPU_CYCLIC_ANCILLARY_DATA_OFF	0
968	0021	0300	immediate		33	ICU	Direct_Cmd	NOP	0
969	8001	0328	in_parameter_pool	WSR	WSR	ICU	Direct_Cmd	SET_CHECK_STATE_IDLE	0
970	0008	03FF	immediate		8	ICU	Direct_Cmd	TERMINATE_RTCS	0
971	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
972	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
973	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
974	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
975	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
976	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
977	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
978	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
979	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
980	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
981	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
982	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
983	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
984	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
985	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
986	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
987	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
988	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
989	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
990	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
991	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
992	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
993	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
994	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
995	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
996	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
997	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
998	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
999	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE
1000	0000	03EE	immediate		0	ICU	Direct_Cmd	TRIGGER_CA	SPARE

8.4.2 RTCS Waits Table

This table holds the 'WAIT' parameters in the ICU, which may be used instead of a delta time within a RTCS

Table Template:

MCMD: SET RTCS WAITS (IOM Reference A6.44)

Columns:

WAIT Description: gives the abbreviated name of the WAIT parameter
WAIT Parameter HEX: specifies the HEX value of the parameter in ct
WAIT Parameter DEC: specifies the DEC value of the parameter in ct
WAIT ID HEX: specifies the HEX name of the WAIT as used in the RTCS pool

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via fixed MCMD.

DCR/OCR	Issue date	issued by	Title
none			

Table 1 of 1

Wait Description	Wait parameter HEX	Wait parameter DEC
WSH0	001C2000	1843200
WSH1	002A3000	2764800
WSH2	01518000	22118400
WSD	02BF2000	46080000
WRH1	002A3000	2764800
WRH2	01518000	22118400
WSP	0002D000	184320
W_SPARE_1	00000000	0
W_SPARE_2	00000000	0
W_SPARE_3	00000000	0
WM	see State Duration Table	see State Duration Table
WSR	see State Duration Table	see State Duration Table

Wait Description	Wait ID HEX
WSH0	8002
WSH1	8003
WSH2	8004
WSD	8005
WRH1	8006
WRH2	8007
WSP	8008
W_SPARE_1	8009
W_SPARE_2	800A
W_SPARE_3	800B
WM	8000
WSR	8001

8.4.3 RESET Index Table

This table contains the START indices for the RTCS used for the RESET commanding depending on the current mode of the ICU. There is only one table of this class.

Table Template:

MCMD: SET RESET INDEX TABLE (IOM Reference A6.42)

Columns:

Column 1:	gives the name of the current mode
Start index/fault ID	
HEX	gives the HEX value of the START index of the RTCS to be applied for the transition
ALPHAN	gives the abbreviated name of the RTCS to be applied for the transition
DEC	gives the DEC value of the START index of the RTCS to be applied for the transition

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via fixed MCMD.

DCR/OCR	Issue date	issued by	Title
none			

RESET_INDEX_TABLE **Table 1 of 1**

	Start Index / Fault ID		
	HEX	ALPHAN	DEC
STANDBY/REFUSE-E	0065	GTO_STB	101
STANDBY/REFUSE-I	0065	GTO_STB	101
HEATER/ REFUSE	012D	HRF_HTR	301

8.4.4 Mode_Mode_Matrix

This table holds the information specifying of a mode switching request is permitted depending on the current mode resp. the transition to a mode the ICU is in at time of receiving this request. There exist 8 tables of this class.

Table Template:

MCMD: SET MODE_MODE MATRIX (IOM Reference A6.39)

Header line: every 4 columns the information for each one of the request types is repeated.

HEX: request type ID HEX

Alphan: alphanumeric name of request type

Columns:

Column 1:	names the Current Mode resp. the Transition to a Mode
HEX sub-column 1	specifies if the mode switching request is permitted (0 / 1)
HEX sub-column 2	specifies the HEX value of the START entry of the RTCS to be used
Alphan sub-column 1	repeats as word if the mode switching request is permitted
Alphan sub-column 2	gives the name of the RTCS to be used resp. in case the request is not permitted the fault ID for the CA to be applied

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via fixed MCMD.

DCR/OCR	Issue date	issued by	Title
none			

MODE_MODE_MATRIX **Table 1 of 1**

	HEX	ALPHAN	HEX	ALPHAN	HEX	ALPHAN	HEX	ALPHAN	HEX	ALPHAN	HEX	ALPHAN	HEX	ALPHAN	HEX	ALPHAN	HEX	ALPHAN
	9	STANDBYREFUSE-E	A	STANDEYREFUSE-I	B	HEATER/REFUSE	C	STANDBY	D	HEATER	E	DECONTAMINATION	F	IDLE	10	TIMELINE		
		Allowed / *Fault ID*		*Allowed* / *Fault ID*		*Allowed* / *Fault ID*		*Allowed* / *Fault ID*		*Allowed* / *Fault ID*		*Allowed* / *Fault ID*		*Allowed* / *Start Index*		*Allowed* / *Start Index*		*Allowed* / *Fault ID*
Transition to Mode R/W-Reset	0	0161 NO 353 GTO_SRE	0	0162 NO 354 GTO_SRE	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Current Mode R/W-Reset	0	0161 NO 353 GTO_SRE	0	0162 NO 354 GTO_SRE	0	0163 NO 355 GTO_HRF	1	001A YES RST_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Transition to 2)	0	0161 NO 353 GTO_SRE	0	0162 NO 354 GTO_SRE	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
STANDBYREFUSE-E	1	0001 YES NOP_RTCS	0	0162 NO 354 NOP_RTCS	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Current Mode 1)	1	0001 YES NOP_RTCS	0	0162 NO 354 NOP_RTCS	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
STANDBYREFUSE-E	1	0001 YES NOP_RTCS	0	0162 NO 354 NOP_RTCS	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Transition to 2)	1	004C YES GTO_SRE	0	0162 NO 354 GTO_SRE	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
STANDBYREFUSE-I	1	004C YES GTO_SRE	1	0001 YES NOP_RTCS	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Current Mode 1)	1	004C YES GTO_SRE	1	0001 YES NOP_RTCS	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
STANDBYREFUSE-I	1	004C YES GTO_SRE	1	0001 YES NOP_RTCS	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Transition to HEATER/REFUSE	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	1	0033 YES NOP_RTCS	1	0033 YES GTO_SRE	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Current Mode HEATER/REFUSE	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	1	0001 YES NOP_RTCS	0	0033 YES GTO_SRE	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Transition to STANDBY	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	0	0163 NO 355 GTO_HRF	0	0164 NO 356 GTO_SRE	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Current Mode STANDBY	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	0	0163 NO 355 GTO_HRF	1	0065 YES GTO_STB	1	0097 YES STB_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Transition to HEATER	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	1	00FB YES GTO_HRF	0	0065 YES GTO_STB	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Current Mode HEATER	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	1	00FB YES GTO_HRF	1	0065 YES GTO_STB	1	00E2 YES UFD_ATC	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	1	0191 YES STR_TML		
Transition to DECONTAMINATION	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	1	00FB YES GTO_SRE	0	0165 NO 357 MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360				
Current Mode DECONTAMINATION	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	0	0163 NO 355 GTO_SRE	1	0065 YES GTO_STB	1	00E2 YES UFD_ATC	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Transition to IDLE	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	1	00FB YES GTO_SRE	1	0065 YES GTO_STB	1	0114 YES MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Current Mode IDLE	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	1	00FB YES GTO_SRE	1	0065 YES GTO_STB	1	0114 YES MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	1	0191 YES STR_TML		
Transition to TIMELINE	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	1	00FB YES GTO_SRE	1	0065 YES GTO_STB	1	0114 YES MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		
Current Mode TIMELINE	1	004C YES GTO_SRE	1	0033 YES GTO_SRE	1	00FB YES GTO_SRE	1	0065 YES GTO_STB	1	0114 YES MSR_HTR	0	0166 NO 358 NOP_RTCS	0	0167 NO 359 NOP_RTCS	0	0168 NO 360		

8.4.5 AUX_MCMD_Mode_Matrix

This table holds the information specifying of a nonmode switching (auxiliary) MCMD is permitted depending on the current mode resp. the transition to a mode the ICU is in at time of receiving this MCMD. In case the MCMD is not permitted the fault ID for the CA is specified. There exist 66 tables of this class.

Table Template:

MCMD: SET AUX_MCMD_MODE MATRIX (IOM Reference A6.28)

Header line: every 4 columns the information for each one of the MCMDs listed is repeated.

Columns:

Column 1:	names the Current Mode resp. the Transition to a Mode
HEX Allowed:	specifies if the mode switching request is permitted (0 / 1)
HEX Fault ID:	if allowed, specifies the HEX value of the START entry of the RTCS to be used
:	if not allowed, specifies the HEX value of the fault ID for the CA to be applied
DEC Allowed:	same as HEX Allowed
DEC Fault ID:	if allowed, specifies the DEC value of the START entry of the RTCS to be used
:	if not allowed, specifies the DEC value of the fault ID for the CA to be applied

At time of issue the following DCR's or OCR's are affecting the table content of the ICU EEPROM such, that the consequent modifications are subject to RAM-updates via fixed MCMD.

DCR/OCR	Issue date	issued by	Title
DR-SCIA_114DO/97	01.12.97	DSS	ICU synchronisation in STANDBY and STANDBY/REFUSE only

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AUX_MCMD_MODE_MATRIX

Table 1 of 7

MCMD ID		SET_MONITORING		INHIBIT_MONITORING		ENABLE_MONITORING		RESET_HISTORY		DUMP_PROCESSOR		PATCH_PROCESSOR		ENABLE_SYNC		TIME_CODE		REDUNDANCY DEF		INHIBIT_AS	
		01 HEX	1 DEC	02 HEX	2 DEC	03 HEX	3 DEC	04 HEX	4 DEC	05 HEX	5 DEC	06 HEX	6 DEC	07 HEX	7 DEC	08 HEX	8 DEC	09 HEX	9 DEC	0A HEX	10 DEC
Transition to 2) STANDBY/REFUSE-E	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Current Mode 1) STANDBY/REFUSE-E	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Transition to 2) STANDBY/REFUSE-I	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Current Mode 1) STANDBY/REFUSE-I	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Transition to HEATER/ REFUSE	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Current Mode HEATER/ REFUSE	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Transition to STANDBY	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Current Mode STANDBY	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Transition to HEATER	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Current Mode HEATER	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Transition to DECONTAMINATION	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Current Mode DECONTAMINATION	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Transition to IDLE	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Current Mode IDLE	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Transition to TIMELINE	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0
Current Mode TIMELINE	Allowed	1 000	1	1 000	1	1 000	1	1 000	1	105	261	106	262	1 000	1	1 000	1	1 000	1	1 000	1
	Fault ID		0		0		0		0	0	0	0	0	1	0	1	0	1	0	1	0

AUX_MCMD_MODE_MATRIX

Table 1 of 7

MCMD ID		SET_MONITORING		INHIBIT_MONITORING		ENABLE_MONITORING		RESET_HISTORY		DUMP_PROCESSOR		PATCH_PROCESSOR		ENABLE_SYNC		TIME_CODE		REDUNDANCY_DEF		INHIBIT_AS	
		HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC
		01	1	02	2	03	3	04	4	05	5	06	6	07	7	08	8	09	9	0A	10
Transition to 2) STANDBY/REFUSE-E	Allowed													0	0	0	0				
	Fault ID													107	263	108	264				
Current Mode 1) STANDBY/REFUSE-E	Allowed																				
	Fault ID													0	0	0	0				
Transition to 2) STANDBY/REFUSE-I	Allowed																				
	Fault ID													0	0	0	0				
Current Mode 1) STANDBY/REFUSE-I	Allowed																				
	Fault ID																				
Transition to HEATER/ REFUSE	Allowed													0	0	0	0				
	Fault ID													107	263	108	264				
Current Mode HEATER/ REFUSE	Allowed																				
	Fault ID													0	0	0	0				
Transition to STANDBY	Allowed													0	0	0	0				
	Fault ID													107	263	108	264				
Current Mode STANDBY	Allowed																				
	Fault ID																				
Transition to HEATER	Allowed													0	0	0	0				
	Fault ID													107	263	108	264				
Current Mode HEATER	Allowed													0	0	0	0				
	Fault ID													107	263	108	264				
Transition to DECONTAMINATION	Allowed																				
	Fault ID																				
Current Mode DECONTAMINATION	Allowed																				
	Fault ID																				
Transition to IDLE	Allowed																				
	Fault ID																				
Current Mode IDLE	Allowed																				
	Fault ID																				
Transition to TIMELINE	Allowed																				
	Fault ID																				
Current Mode TIMELINE	Allowed																				
	Fault ID																				

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AUX_MCMD_MODE_MATRIX **Table 2 of 7**

MCMD ID		ENABLE_AS		STANDBY		HEATER		RESET_COMMANDING		ENABLE_NOM_TM		INHIBIT_NOM_TM		INHIBIT_NON_NOM_TM		SET_THERMAL_CONTROL		ANCILLARY_DATA		PROTECT		UNPROTECT	
		HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC
		0B	11	0C	12	0D	13	0E	14	0F	15	10	16	11	17	12	18	13	19	14	20		
Transition to 2) STANDBY/REFUSE-E	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Current Mode 1) STANDBY/REFUSE-E	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Transition to 2) STANDBY/REFUSE-I	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Current Mode 1) STANDBY/REFUSE-I	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Transition to HEATER/ REFUSE	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Current Mode HEATER/ REFUSE	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Transition to STANDBY	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Current Mode STANDBY	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Transition to HEATER	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	0 111	0 273	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Current Mode HEATER	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Transition to DECONTAMINATION	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Current Mode DECONTAMINATION	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Transition to IDLE	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Current Mode IDLE	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Transition to TIMELINE	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	
Current Mode TIMELINE	Allowed	1 000	1 0	0 10C	0 268	0 10D	0 269	0 10E	0 270	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 113	0 275	0 114	0 276		
	Fault ID																					Allowed	

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AUX_MCMD_MODE_MATRIX

Table 3 of 7

MCMD ID		REPORT_DEFINITION		TIME_COMPENSATION		ENABLE_SP_PATCH		DISABLE_SP_PATCH		HEATER_REFUSE		ENABLE_RELEASE		MEASUREMENT_DATA_RATE		DECONTAMINATION		NOP		START_TIMELINE	
		HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC
Transition to 2) STANDBY/REFUSE-E	Allowed	1 000	1	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
Current Mode 1) STANDBY/REFUSE-E	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
Transition to 2) STANDBY/REFUSE-I	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
Current Mode 1) STANDBY/REFUSE-I	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
Transition to HEATER/ REFUSE	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID						SPR_INI		SPR_RES												
Current Mode HEATER/ REFUSE	Allowed	1 000	1 0	0 116	0 278	1 15F	1	1 178	1	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID																				
Transition to STANDBY	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID																				
Current Mode STANDBY	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
Transition to HEATER	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
Current Mode HEATER	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	1 000	1 0	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
Transition to DECONTAMINATION	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
Current Mode DECONTAMINATION	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
Transition to IDLE	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID																				
Current Mode IDLE	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID																				
Transition to TIMELINE	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID																				
Current Mode TIMELINE	Allowed	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286
	Fault ID	1 000	1 0	0 116	0 278	0 117	0 279	0 118	0 280	0 119	0 281	0 11A	0 282	1 000	1 0	0 11C	0 284	1 000	1 0	0 11E	0 286

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AUX_MCMD_MODE_MATRIX **Table 4 of 7**

MCMD ID		RELEASE_MECHANISMS		SET_HOT_MODE		SET_CA_MATRIX		SET_CA_MASK		SET_CLUSTER_DEFINITIONS		SET_CLUSTERS_PER_CHANNEL		SET_CO_ADDING_TABLE		SET_EXPOSURE_STATE_PARAM		SET_DETECTOR_COMMAND_W		SET_FUNCTION_PARAMS	
		HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC
	Allowed	1F	31	20	32	21	33	22	34	23	35	24	36	25	37	26	38	27	39	28	40
	Fault ID																				
Transition to 2) STANDBY/REFUSE-E	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Current Mode 1) STANDBY/REFUSE-E	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Transition to 2) STANDBY/REFUSE-I	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Current Mode 1) STANDBY/REFUSE-I	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Transition to HEATER/ REFUSE	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Current Mode HEATER/ REFUSE	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Transition to STANDBY	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Current Mode STANDBY	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Transition to HEATER	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Current Mode HEATER	1	000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Transition to DECONTAMINATION	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Current Mode DECONTAMINATION	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Transition to IDLE	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Current Mode IDLE	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Transition to TIMELINE	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296
Current Mode TIMELINE	0	11F	0 287	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	1 000	1 0	0 128	0 296

AUX_MCMD_MODE_MATRIX

Table 5 of 7

MCMD ID		SET_MECHANISMS_CONTROL			SET_RTCS			SET_RTCS_WAITS			SET_SCANNER_BASIC_PROFILE			SET_SCANNER_CONSTANTS			SET_SCANNER_CONTROL			SET_SCANNER_REL_PROFILE			SET_SCANNER_STATE_PARAMS			SET_SP_INIT_PARAMS			SET_STATE_IND_EX_TABLE		
		HEX	DEC		HEX	DEC		HEX	DEC		HEX	DEC		HEX	DEC		HEX	DEC		HEX	DEC		HEX	DEC		HEX	DEC		HEX	DEC	
	Allowed	29	41		2A	42		2B	43		2C	44		2D	45		2E	46		2F	47		30	48		31	49		32	50	
	Fault ID																													
Transition to 2) STANDBY/REFUSE-E		1 000	1 0		0 12A	0 298		0 12B	0 299		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Current Mode 1) STANDBY/REFUSE-E		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Transition to 2) STANDBY/REFUSE-I		1 000	1 0		0 12A	0 298		0 12B	0 299		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Current Mode 1) STANDBY/REFUSE-I		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Transition to HEATER/ REFUSE		1 000	1 0		0 12A	0 298		0 12B	0 299		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Current Mode HEATER/ REFUSE		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Transition to STANDBY		1 000	1 0		0 12A	0 298		0 12B	0 299		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Current Mode STANDBY		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Transition to HEATER		0 129	0 297		0 12A	0 298		0 12B	0 299		1 000	1 0		0 12D	0 301		0 12E	0 302		1 000	1 0		1 000	1 0		0 131	0 305		1 000	1 0	
Current Mode HEATER		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Transition to DECONTAMINATION		1 000	1 0		0 12A	0 298		0 12B	0 299		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Current Mode DECONTAMINATION		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Transition to IDLE		1 000	1 0		0 12A	0 298		0 12B	0 299		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Current Mode IDLE		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0	
Transition to TIMELINE		1 000	1 0		0 12A	0 298		0 12B	0 299		0 12C	0 300		1 000	1 0		1 000	1 0		0 12F	0 303		1 000	1 0		1 000	1 0		1 000	1 0	
Current Mode TIMELINE		1 000	1 0		0 12A	0 298		0 12B	0 299		1 000	1 0		1 000	1 0		1 000	1 0		1 000	1 0		0 130	0 304		0 131	0 305		0 132	0 306	

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AUX_MCMD_MODE_MATRIX **Table 6 of 7**

MCMD ID		SET_STATE_DURATION_TABLE		SET_STATE_DS_INDEX_TABL		SET_STATE_RTC_INDEX_TABL		SET_TIMELINE		SET_TIMELINE_INDEX_TABLE		START_RTCS		SET_RESET_IND EX_TABLE		SET_FMTC_MODULE_ENABLE		SET_AUX_MCMD_MODE_MATR		SET_MODE_MODE_MATRIX		DIRECT_CMD	
		HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC
	Allowed	33	51	34	52	35	53	36	54	37	55	38	56	39	57	3A	58	3B	59	3C	60
	Fault ID																				
Transition to 2) STANDBY/REFUSE-E	1 000	1	0	1 000	1	0	1 000	1	0	0 137	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Current Mode 1) STANDEY/REFUSE-E	1 000	1	0	1 000	1	0	1 000	1	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Transition to 2) STANDBY/REFUSE-I	1 000	1	0	1 000	1	0	1 000	1	0	0 137	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Current Mode 1) STANDEY/REFUSE-I	1 000	1	0	1 000	1	0	1 000	1	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Transition to HEATER/ REFUSE	1 000	1	0	1 000	1	0	1 000	1	0	0 137	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Current Mode HEATER/ REFUSE	1 000	1	0	1 000	1	0	1 000	1	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Transition to STANDEY	1 000	1	0	1 000	1	0	1 000	1	0	0 137	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Current Mode STANDBY	1 000	1	0	1 000	1	0	1 000	1	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Transition to HEATER	1 000	1	0	1 000	1	0	1 000	1	0	0 137	0	1 000	1	0	1	0 139	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Current Mode HEATER	1 000	1	0	1 000	1	0	1 000	1	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Transition to DECONTAMINATION	1 000	1	0	1 000	1	0	1 000	1	0	0 137	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Current Mode DECONTAMINATION	1 000	1	0	1 000	1	0	1 000	1	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Transition to IDLE	1 000	1	0	1 000	1	0	1 000	1	0	0 137	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Current Mode IDLE	1 000	1	0	1 000	1	0	1 000	1	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Transition to TIMELINE	1 000	1	0	1 000	1	0	1 000	1	0	0 137	0	1 000	1	0	1	1 000	1	0	1	1 000	1	0	1	1 000	1	0
Current Mode TIMELINE	0 133	0	307	0	134	0	308	0	135	0	309	0	136	0	310	0	137	0	311	0	138	0	312	0	139	0	313

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AUX_MCMD_MODE_MATRIX **Table 7 of 7**

		EXEC_PRIMITIVE_CMD		ENABLE_TEST_PORT		TRIGGER_CA		SET_SELF_TEST_PARAMS		RESET_TABLE		SET_SERVER_ALLOCATION_TABLE		–		–		–		–	
MCMD ID		HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC	HEX	DEC
	Allowed	3D	61	3E	62	3F	63	40	64	41	65	42	66	43	67	44	68	45	69	46	70
	Fault ID																				
Transition to 2) STANDBY/REFUSE-E		0 13D	0 317	0 13E	0 318	0 13F	0 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Current Mode 1) STANDBY/REFUSE-E		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Transition to 2) STANDBY/REFUSE-I		0 13D	0 317	0 13E	0 318	0 13F	0 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Current Mode 1) STANDBY/REFUSE-I		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Transition to HEATER/ REFUSE		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Current Mode HEATER/ REFUSE		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Transition to STANDBY		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Current Mode STANDBY		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Transition to HEATER		0 13D	0 317	0 13E	0 318	0 13F	0 319	0 140	0 320	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Current Mode HEATER		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	1 000	1 0	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Transition to DECONTAMINATION		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Current Mode DECONTAMINATION		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Transition to IDLE		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Current Mode IDLE		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Transition to TIMELINE		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0
Current Mode TIMELINE		0 13D	0 317	0 13E	0 318	0 13F	1 319	1 000	1 0	0 141	0 321	0 142	0 322	0 000	0 0	0 000	0 0	0 000	0 0	0 000	0 0

A Annex

A.1 Support Tables

The tables presented in chapters 5 and 6 are in a format as required by the instrument from a systems point of view (ground and space segment). However, to clearly understand the properties of individual states in some cases we feel it necessary to alter or even supplement such state parameter information.

In Annex 1 we list several tables serving this purpose. When any of these tables reflects parameters, which were called up already in the earlier tables but in differing units or context, then these parameters are given in the following tables always in the up to date value and not in the EEPROM value. Insofar we present only parameters corresponding to Table_version 21.004.

A.1.1 Pixel Exposure Time Parameter (sec)

This table gives the pixel exposure times for all states, both for the low and the high data rate, in seconds. It is equivalent to the Pixel Exposure Time parameter table in chapter 5.1.2 where the PETs are listed in Engineering Units (EU).

Table Template:

Columns:

State ID:	identifier of state
Data Rate:	data rate for which the exposure times apply; the Pixel Exposure Time (PET) is specified separately for high and low data rate
Channel 1a - Channel 8:	PET in SCIAMACHY measurement channels (including the separation of the first two channels into virtual channels) in seconds

Note that the indices given on the right hand side of the table (e.g. N1-N8, L1-L7, etc.) define individual PET sets. Their nomenclature starting with state 46 is self explanatory. ”N” stands for ”Nadir” and ”L” for ”Limb”. A summary of these PET sets and their connection to coadding tables applied is found in the next chapter (A1.218

Final-Flight_Vers.FF10

State ID	Data Rate	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	corresponding PET/Coadd-table
1	Low	10,00000	10,00000	10,00000	10,00000	1,00000	1,00000	10,00000	5,00000	1,00000	1,00000	N1
	High	10,00000	10,00000	10,00000	10,00000	1,00000	1,00000	10,00000	5,00000	1,00000	1,00000	N1
2	Low	10,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	0,50000	1,00000	1,00000	N2
	High	10,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	0,50000	1,00000	1,00000	N2
3	Low	5,00000	1,00000	1,00000	1,00000	0,25000	0,25000	0,50000	0,25000	1,00000	1,00000	N3
	High	5,00000	1,00000	1,00000	1,00000	0,25000	0,25000	0,50000	0,25000	1,00000	1,00000	N3
4	Low	1,00000	1,00000	0,50000	1,00000	0,25000	0,12500	0,50000	0,25000	1,00000	1,00000	N4
	High	1,00000	1,00000	0,50000	1,00000	0,25000	0,12500	0,50000	0,25000	1,00000	1,00000	N4
5	Low	1,00000	0,50000	0,50000	0,50000	0,12500	0,12500	0,25000	0,12500	1,00000	1,00000	N5
	High	1,00000	0,50000	0,50000	0,50000	0,12500	0,12500	0,25000	0,12500	1,00000	1,00000	N5
6	Low	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,25000	0,12500	0,50000	0,50000	N6
	High	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,25000	0,12500	0,50000	0,50000	N6
7	Low	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,12500	0,50000	0,50000	N7
	High	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,12500	0,50000	0,50000	N7
8	Low	5,00000	5,00000	1,00000	1,00000	1,00000	1,00000	1,00000	5,00000	1,00000	1,00000	Dark Current 5
	High	5,00000	5,00000	1,00000	1,00000	1,00000	1,00000	1,00000	5,00000	1,00000	1,00000	Dark Current 5
9	Low	10,00000	10,00000	10,00000	10,00000	1,00000	1,00000	10,00000	5,00000	1,00000	1,00000	N1
	High	10,00000	10,00000	10,00000	10,00000	1,00000	1,00000	10,00000	5,00000	1,00000	1,00000	N1
10	Low	10,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	0,50000	1,00000	1,00000	N2
	High	10,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	0,50000	1,00000	1,00000	N2
11	Low	5,00000	1,00000	1,00000	1,00000	0,25000	0,25000	0,50000	0,25000	1,00000	1,00000	N3
	High	5,00000	1,00000	1,00000	1,00000	0,25000	0,25000	0,50000	0,25000	1,00000	1,00000	N3
12	Low	1,00000	1,00000	0,50000	1,00000	0,25000	0,12500	0,50000	0,25000	1,00000	1,00000	N4
	High	1,00000	1,00000	0,50000	1,00000	0,25000	0,12500	0,50000	0,25000	1,00000	1,00000	N4
13	Low	1,00000	0,50000	0,50000	0,50000	0,12500	0,12500	0,25000	0,12500	1,00000	1,00000	N5
	High	1,00000	0,50000	0,50000	0,50000	0,12500	0,12500	0,25000	0,12500	1,00000	1,00000	N5
14	Low	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,25000	0,12500	0,50000	0,50000	N6
	High	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,25000	0,12500	0,50000	0,50000	N6
15	Low	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,12500	0,50000	0,50000	N7
	High	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,12500	0,50000	0,50000	N7
16	Low	4,00000	4,00000	4,00000	4,00000	0,12500	0,03125	0,03125	0,00720	0,03125	0,06250	NDF Monitoring
	High	4,00000	4,00000	4,00000	4,00000	0,12500	0,03125	0,03125	0,00720	0,03125	0,06250	NDF Monitoring
17	Low	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
	High	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
18	Low	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
	High	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
19	Low	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
	High	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
20	Low	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
	High	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
21	Low	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
	High	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
22	Low	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
	High	0,25000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,06250	0,25000	0,50000	Sun_ASM_diffuser
23	Low	10,00000	10,00000	10,00000	10,00000	1,00000	1,00000	10,00000	5,00000	1,00000	1,00000	N1
	High	10,00000	10,00000	10,00000	10,00000	1,00000	1,00000	10,00000	5,00000	1,00000	1,00000	N1
24	Low	10,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	0,50000	1,00000	1,00000	N2
	High	10,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	0,50000	1,00000	1,00000	N2
25	Low	5,00000	1,00000	1,00000	1,00000	0,25000	0,25000	0,50000	0,25000	1,00000	1,00000	N3
	High	5,00000	1,00000	1,00000	1,00000	0,25000	0,25000	0,50000	0,25000	1,00000	1,00000	N3
26	Low	0,25000	0,25000	0,25000	0,25000	0,03125	0,03125	0,25000	0,03125	0,03125	0,12500	Dark Current 4
	High	0,25000	0,25000	0,25000	0,25000	0,03125	0,03125	0,25000	0,03125	0,03125	0,12500	Dark Current 4
27	Low	1,50000	1,50000	1,50000	1,50000	0,75000	0,75000	1,50000	1,50000	1,50000	1,50000	L6
	High	1,50000	1,50000	1,50000	1,50000	0,75000	0,75000	1,50000	1,50000	1,50000	1,50000	L6
28	Low	1,50000	1,50000	0,75000	1,50000	0,37500	0,37500	0,37500	0,37500	1,50000	1,50000	L1
	High	1,50000	1,50000	0,75000	1,50000	0,37500	0,37500	0,37500	0,37500	1,50000	1,50000	L1
29	Low	1,50000	1,50000	0,75000	1,50000	0,06250	0,06250	0,18750	0,06250	1,50000	1,50000	L2
	High	1,50000	1,50000	0,75000	1,50000	0,06250	0,06250	0,18750	0,06250	1,50000	1,50000	L2
30	Low	1,50000	0,37500	0,37500	0,37500	0,06250	0,06250	0,37500	0,06250	0,37500	0,37500	L3
	High	1,50000	0,37500	0,37500	0,37500	0,06250	0,06250	0,37500	0,06250	0,37500	0,37500	L3
31	Low	1,50000	0,37500	0,37500	0,37500	0,18750	0,18750	0,37500	0,18750	0,37500	0,37500	L4
	High	1,50000	0,37500	0,37500	0,37500	0,18750	0,18750	0,37500	0,18750	0,37500	0,37500	L4
32	Low	1,50000	0,37500	0,37500	0,37500	0,18750	0,18750	0,37500	0,18750	0,37500	0,37500	L5
	High	1,50000	0,37500	0,37500	0,37500	0,18750	0,18750	0,37500	0,18750	0,37500	0,37500	L5
33	Low	1,50000	1,50000	1,50000	1,50000	0,75000	0,75000	1,50000	1,50000	1,50000	1,50000	L6
	High	1,50000	1,50000	1,50000	1,50000	0,75000	0,75000	1,50000	1,50000	1,50000	1,50000	L6
34	Low	1,50000	0,37500	0,37500	0,37500	0,18750	0,18750	0,37500	0,18750	0,37500	0,37500	L4
	High	1,50000	0,37500	0,37500	0,37500	0,18750	0,18750	0,37500	0,18750	0,37500	0,37500	L4
35	Low	1,50000	1,50000	0,75000	1,50000	0,37500	0,37500	0,37500	0,37500	1,50000	1,50000	L1
	High	1,50000	1,50000	0,75000	1,50000	0,37500	0,37500	0,37500	0,37500	1,50000	1,50000	L1

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State ID	Data Rate	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	corresponding PET/Coadd-table
36	Low	1,50000	1,50000	0,75000	1,50000	0,06250	0,06250	0,18750	0,06250	1,50000	1,50000	L2
	High	1,50000	1,50000	0,75000	1,50000	0,06250	0,06250	0,18750	0,06250	1,50000	1,50000	L2
37	Low	1,50000	0,37500	0,37500	0,37500	0,06250	0,06250	0,37500	0,06250	0,37500	0,37500	L3
	High	1,50000	0,37500	0,37500	0,37500	0,06250	0,06250	0,37500	0,06250	0,37500	0,37500	L3
38	Low	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,12500	0,50000	0,50000	N7
	High	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,12500	0,50000	0,50000	N7
39	Low	2,00000	2,00000	0,25000	0,25000	0,12500	0,03125	0,03125	0,00720	0,00360	0,00720	WLS
	High	2,00000	2,00000	0,25000	0,25000	0,12500	0,03125	0,03125	0,00720	0,00360	0,00720	WLS
40	Low	1,50000	1,50000	1,50000	1,50000	0,75000	0,75000	1,50000	1,50000	1,50000	1,50000	L6
	High	1,50000	1,50000	1,50000	1,50000	0,75000	0,75000	1,50000	1,50000	1,50000	1,50000	L6
41	Low	1,50000	0,37500	0,37500	0,37500	0,18750	0,18750	0,37500	0,18750	0,37500	0,37500	L5
	High	1,50000	0,37500	0,37500	0,37500	0,18750	0,18750	0,37500	0,18750	0,37500	0,37500	L5
42	Low	1,00000	1,00000	0,50000	1,00000	0,25000	0,12500	0,50000	0,25000	1,00000	1,00000	N4
	High	1,00000	1,00000	0,50000	1,00000	0,25000	0,12500	0,50000	0,25000	1,00000	1,00000	N4
43	Low	1,00000	0,50000	0,50000	0,50000	0,12500	0,12500	0,25000	0,12500	1,00000	1,00000	N5
	High	1,00000	0,50000	0,50000	0,50000	0,12500	0,12500	0,25000	0,12500	1,00000	1,00000	N5
44	Low	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,25000	0,12500	0,50000	0,50000	N6
	High	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,25000	0,12500	0,50000	0,50000	N6
45	Low	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,12500	0,50000	0,50000	N7
	High	1,00000	0,25000	0,25000	0,25000	0,06250	0,06250	0,12500	0,12500	0,50000	0,50000	N7
46	Low	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,12500	0,25000	0,06250	0,06250	Dark Current 1
	High	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,12500	0,25000	0,06250	0,06250	Dark Current 1
47	Low	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
	High	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
48	Low	4,00000	4,00000	4,00000	4,00000	0,12500	0,03125	0,03125	0,00720	0,03125	0,06250	NDF Monitoring
	High	4,00000	4,00000	4,00000	4,00000	0,12500	0,03125	0,03125	0,00720	0,03125	0,06250	NDF Monitoring
49	Low	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
	High	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
50	Low	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	Sun_Fast_Sweep
	High	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	Sun_Fast_Sweep
51	Low	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
	High	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
52	Low	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,03125	0,03125	0,06250	0,12500	Sun_ESM_diffuser
	High	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,03125	0,03125	0,06250	0,12500	Sun_ESM_diffuser
53	Low	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
	High	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
54	Low	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	Moon
	High	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	Moon
55	Low	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	Moon
	High	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	Moon
56	Low	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	Moon
	High	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	Moon
57	Low	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	Moon
	High	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	1,00000	Moon
58	Low	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
	High	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	Sun
59	Low	4,00000	4,00000	2,00000	2,00000	0,12500	0,03125	0,25000	0,25000	1,00000	1,00000	SLS
	High	4,00000	4,00000	2,00000	2,00000	0,12500	0,03125	0,25000	0,25000	1,00000	1,00000	SLS
60	Low	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	Sun_Fast_Sweep
	High	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	Sun_Fast_Sweep
61	Low	2,00000	2,00000	0,25000	0,25000	0,12500	0,03125	0,03125	0,00720	0,00360	0,00720	WLS
	High	2,00000	2,00000	0,25000	0,25000	0,12500	0,03125	0,03125	0,00720	0,00360	0,00720	WLS
62	Low	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	0,03125	0,06250	0,12500	Sun_ESM_diffuser
	High	0,06250	0,06250	0,06250	0,06250	0,03125	0,03125	0,06250	0,03125	0,06250	0,12500	Sun_ESM_diffuser
63	Low	1,00000	1,00000	0,50000	0,50000	0,25000	0,25000	0,50000	0,50000	0,50000	0,50000	Dark Current 2
	High	1,00000	1,00000	0,50000	0,50000	0,25000	0,25000	0,50000	0,50000	0,50000	0,50000	Dark Current 2
64	Low	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,06250	0,06250	Sun
	High	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,06250	0,06250	Sun
65	Low	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	ADC Cal
	High	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	ADC Cal
66	Low	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,06250	0,06250	Sun
	High	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,06250	0,03125	0,06250	0,06250	Sun
67	Low	10,00000	10,00000	10,00000	10,00000	0,12500	0,12500	10,00000	0,12500	2,00000	2,00000	Dark Current 3
	High	10,00000	10,00000	10,00000	10,00000	0,12500	0,12500	10,00000	0,12500	2,00000	2,00000	Dark Current 3
68	Low	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	Sun_Fast_Sweep
	High	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	0,12500	Sun_Fast_Sweep
69	Low	40,00000	40,00000	40,00000	40,00000	20,00000	10,00000	40,00000	10,00000	2,00000	2,00000	SLS_diffuser
	High	40,00000	40,00000	40,00000	40,00000	20,00000	10,00000	40,00000	10,00000	2,00000	2,00000	SLS_diffuser
70	Low	40,00000	40,00000	40,00000	40,00000	10,00000	4,00000	4,00000	1,00000	1,00000	2,00000	WLS_diffuser
	High	40,00000	40,00000	40,00000	40,00000	10,00000	4,00000	4,00000	1,00000	1,00000	2,00000	WLS_diffuser

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A.1.2 Integration Time

This table summarises the relation between PETs and Co-Adding factors for different measurement categories. The identifier of each Integration (PET*Co-Adding) table is used in several other support tables and in the state summary table in chapter 4.

Table Template:

Rows: alternating

Clusterindex:	running index of the cluster in subsequent channel; in the electronic pdf formats cluster indices are colour coded for the different channels
Integration Time (s):	Pixel Exposure Time multiplied by the coadding factor applicable. Co-Adding Factor applied corresponds to the nominally used data rate. For clusters in Hot Mode the effective integration time is given.

Integration Time (s)	1							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1,5	1,5	1,5	1,5	1,5	1,5	1,5	0,75
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,75	1,5	1,5	1,5	0,375	0,375	0,375	0,375
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,375	0,375	0,375	0,375	0,375	0,375	0,375	0,375
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,375	0,375	0,375	0,375	0,375	0,375	0,375	0,375
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

L1 table

Integration Time (s)	2							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1,5	1,5	1,5	1,5	1,5	1,5	1,5	0,75
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,75	1,5	1,5	1,5	1,5	1,5	0,375	1,5
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	1,5	1,5	1,5	0,375	1,5	1,5	1,5	1,5
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,375	1,5	1,5	1,5	1,5	0,375	1,5	1,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

L2 table

Integration Time (s)	3							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1,5	1,5	1,5	0,75	1,5	1,5	1,5	1,5
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,375	0,375	1,5	1,5	1,5	1,5	0,375	1,5
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	1,5	1,5	1,5	0,375	1,5	1,5	1,5	1,5
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,375	1,5	1,5	1,5	1,5	0,375	1,5	1,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1,5	1,5	0,375	1,5	1,5	1,5	0,375	1,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

L3 table

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Integration Time (s)	4							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1,5	1,5	1,5	0,75	1,5	1,5	1,5	1,5
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,375	0,375	1,5	1,5	1,5	1,5	0,375	1,5
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	1,5	1,5	1,5	0,375	1,5	1,5	1,5	1,5
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,375	1,5	1,5	1,5	1,5	0,375	1,5	1,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1,5	1,5	0,375	1,5	1,5	1,5	0,375	1,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

L4 table

Integration Time (s)	5							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1,5	1,5	1,5	0,75	1,5	1,5	1,5	1,5
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,375	0,375	1,5	1,5	1,5	1,5	0,375	1,5
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	1,5	1,5	1,5	0,375	1,5	1,5	1,5	1,5
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,375	1,5	1,5	1,5	1,5	0,375	1,5	1,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1,5	1,5	0,375	1,5	1,5	1,5	0,375	1,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

L5 table

Integration Time (s)	6							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	1,5	1,5	1,5	1,5	0,75	0,75	0,75	0,75
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,75	0,75	0,75	0,75	0,75	0,75	1,5	1,5
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

L6 table

Integration Time (s)	21							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	10	10	10	10	10	10	20	10
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	10	10	10	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	1	1	1	1	10	10	10	10
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	10	10	10	5	5	5	5	5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

N1 table

Integration Time (s)	22							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	10	10	10	1	1	1	2	1
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	1	1	1	1	24	24	6	24
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	24	24	24	6	24	24	8	8
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	2	8	8	24	24	6	24	24
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1	1	1	0,5	0,5	0,5	0,5	0,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

N2 table

Integration Time (s)	23							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	5	5	5	2	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	1	1	4	1	6	6	1,5	6
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	6	6	6	1,5	6	6	1	1
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,25	1	1	6	12	3	12	12
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	2	2	0,5	1	1	1	0,25	1
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0

N3 table

FINAL-FLIGHT_VERS.FF10

Integration Time (s)	24							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	1	1	1	1	1	0,25	0,25	0,25
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,25	0,25	0,25	1	0,5	0,25	0,125	0,125
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,125	0,125	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	0,5	0,5	0,5	0,5	0,5	0,25	0,25	0,25
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0,25	0,25	0,25	0,25	0,25	0,25	0,5	1
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

N4 table

Integration Time (s)	25							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1	1	1	0,5	0,5	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,5	0,5	1	1	1	0,125	0,125	1
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,125	1	1	1	1	1	1	0,125
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	1	0,125	1	1	1	1	1	0,25
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1	0,25	1	1	0,25	1	0,125	1
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0,125	1	0,125	1	0,125	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

N5 table

Integration Time (s)	26							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1	1	1	0,25	0,25	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,25	0,25	1	1	1	1	0,25	1
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,25	1	1	1	1	1	1	0,25
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	1	0,25	1	1	1	1	1	0,25
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1	0,5	1	1	0,5	1	0,25	1
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0,25	1	0,25	1	0,25	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	1	0,5	1	0,5	1	1	0,5	1
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

N6 table

Integration Time (s)	27							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	5	1	1	0,5	0,25	5	1	1
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,25	0,25	1	1	1	1	0,25	1
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,25	1	1	1	1	1	1	0,25
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	1	0,25	1	1	1	1	1	0,25
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1	1	1	1	1	1	0,25	1
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0,25	1	0,25	1	0,25	1	1	1
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	1	0,5	1	0,5	1	1	0,5	1
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

N7 table

Integration Time (s)	32							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	0,0625	0,0625	0,0625	0,0625	0,0625	0,0625	0,0625	0,0625
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,0625	0,0625	0,0625	0,0625	0,125	0,125	0,125	0,125
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,125	0,125	0,125	0,125	0,125	0,125	0,125	0,125
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,125	0,125	0,125	0,0625	0,0625	0,0625	0,0625	0,0625
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	0,03125	0,03125	0,03125	0,03125	0,03125	0,125	0,125	0,125
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

Sun table

Integration Time (s)	36							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	0,125	0,125	0,125	0,125	0,125	0,125	0,125	0,125
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,125	0,125	0,125	0,125	0,125	0,125	0,125	0,125
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,125	0,125	0,125	0,125	0,125	0,125	0,125	0,125
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,125	0,125	0,125	0,125	0,125	0,125	0,125	0,125
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	0,125	0,125	0,125	0,125	0,125	0,125	0,125	0,125
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

Sun_fast_sweep table

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Integration Time (s)	40							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	0,125	0,125	0,125	0,125	0,125	0,125	0,125	0,125
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,125	0,125	0,125	0,125	0,0625	0,0625	0,0625	0,0625
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,0625	0,0625	0,0625	0,0625	0,0625	0,0625	0,0625	0,0625
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,0625	0,0625	0,0625	0,0625	0,0625	0,0625	0,0625	0,0625
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	0,125	0,125	0,125	0,125	0,125	0,125	0,125	0,125
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

Sun_diffuser table

Integration Time (s)	17							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

ASM_diffuser table

Integration Time (s)	48							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	4	4	4	4	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	4	4	4	4	4	4	4	4
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	4	2	2	2	2	2	2	2
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	2	2	2	0,9216	0,9216	0,9216	0,9216	0,9216
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	2	2	2	2	2	4	4	4
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

NDF_Monitoring table

Integration Time (s)	48							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	4	4	4	4	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	4	4	4	4	4	4	4	4
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	4	2	2	2	2	2	2	2
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	2	2	2	0,9216	0,9216	0,9216	0,9216	0,9216
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	2	2	2	2	2	4	4	4
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

NDF_Monitoring table

Integration Time (s)	47							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

Moon table

Integration Time (s)	53							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	4	4	4	4	4	4	4	4
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	4	4	4	4	4	4	4	4
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	4	2	2	2	2	2	4	4
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	4	4	4	4	4	4	4	4
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	4	4	4	4	4	4	4	4
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

SLS table

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Integration Time (s)	57							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

SLS_diffuser table

Integration Time (s)	39							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,5	0,25	0,25	0,25	0,25	0,25	0,25	0,25
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,25	0,25	0,25	0,5	0,5	0,5	0,5	0,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

WLS table

Integration Time (s)	59							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	40	40	40	40	40	40	40	40
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

WLS_diffuser table

Integration Time (s)	45							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	1	1	1	1	0,5	0,5	0,5	0,5
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

Dark current table 1 (short duration)

Integration Time (s)	49							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	1	1	1	1	1	1	0,5	0,5
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

Dark current table 2 (medium duration)

Integration Time (s)	50							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	10	10	10	10	10	10	10	10
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	10	10	10	10	0,25	0,25	0,25	0,25
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,25	0,25	0,25	0,25	0,25	0,25	10	10
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	10	10	10	0,125	0,125	0,125	0,125	0,125
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	2	2	2	2	2	2	2	2
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

Dark current table 3 (long duration)

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Integration Time (s)	51							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

Dark current table 4

Integration Time (s)	52							
Cluster Index	1	2	3	4	5	6	7	8
Integration Time	5	5	5	5	5	5	1	1
Cluster Index	9	10	11	12	13	14	15	16
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	25	26	27	28	29	30	31	32
Integration Time	1	1	1	5	5	5	5	5
Cluster Index	33	34	35	36	37	38	39	40
Integration Time	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56
Integration Time	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64
Integration Time	0	0	0	0	0	0	0	0

Dark current table 5

A.1.3 State Duration (sec)

This table defines the duration of state internal time intervals in seconds. It is equivalent to the State Duration parameter table in chapter 5.1.5 where all times are listed in Engineering Units (EU).

Table Template:

Columns:

State ID:	identifier of state
Restart Time:	definition of the elapse time between consecutive *RESTART* commands in limb mode in seconds
(SDPU) Mode:	selection of measurement mode for SDPU, either ”Standard” or ”Limb”
SDPU Duration (Number of BCPS):	definition of SDPU measurement mode in seconds, corresponds to the duration of scan phases 2 to n-1
Wait Measurement Execution - WM:	definition of the RTCS Wait parameter WM (the time to wait for the termination of the nominal scan, i.e. excluding the last phase of a scanner state) in seconds
State Duration:	definition of the total duration of the state, including all phases of the state (equivalent to the RTCS execution time) in seconds
Scanner Reset Wait - WSR:	definition of the RTCS Wait parameter WSR (the time to wait for the termination of the last phase of a state) in seconds

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State ID	Restart Time	(SDPU) Mode	SDPU Duration (sec)	Wait Measurement Execution (sec)	State Duration (sec)	Scanner Reset Wait (sec)	
1	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Nadir 01
2	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Nadir 02
3	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Nadir 03
4	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 04
5	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 05
6	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 06
7	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 07
8	15,9375	STANDARD	40	39,91015625	43,55859375	0,671875	Dark_Current_Cal_5
9	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Nadir 09
10	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Nadir 10
11	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Nadir 11
12	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 12
13	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 13
14	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 14
15	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 15
16	15,9375	STANDARD	12	11,91015625	22,31640625	3,41015625	NDF Monitoring, ND Filter OUT
17	15,9375	STANDARD	30	29,91015625	39,2578125	3,671875	Sun_ASM_Diffuser
18	15,9375	STANDARD	30	29,91015625	39,2578125	3,671875	Sun_ASM_Diffuser
19	15,9375	STANDARD	30	29,91015625	39,2578125	3,671875	Sun_ASM_Diffuser
20	15,9375	STANDARD	30	29,91015625	39,2578125	3,671875	Sun_ASM_Diffuser
21	15,9375	STANDARD	30	29,91015625	39,2578125	3,671875	Sun_ASM_Diffuser
22	15,9375	STANDARD	32	31,91015625	41,2578125	3,671875	Sun_ASM_Diffuser_Atmosphere
23	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Nadir 23
24	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Nadir 24
25	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Nadir 25
26	15,9375	STANDARD	30	29,91015625	33,55859375	0,671875	Dark_Current_Cal_4
27	1,6875	LIMB	40,5	40,41015625	44,05859375	0,671875	Limb_Mesosphere
28	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 01_short
29	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 02_short
30	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 03_short
31	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 04_short
32	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 05_short
33	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 06_short
34	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 11_short
35	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 08_short
36	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 09_short
37	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 10_short
38	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir_Pointing_Left
39	15,9375	STANDARD	12	11,91015625	21,2578125	3,671875	Dark_Current_Cal_HM
40	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 13 _short
41	1,6875	LIMB	52,3125	52,22265625	55,87109375	0,671875	Limb 12_short
42	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 26
43	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 27
44	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 28
45	15,9375	STANDARD	65	64,91015625	68,55859375	0,671875	Nadir 29
46	15,9375	STANDARD	10	9,91015625	13,55859375	0,671875	Dark_Current_Cal_1
47	15,9375	STANDARD	66	65,91015625	70,98046875	0,03125	SO&C_Scan/Point
48	15,9375	STANDARD	12	11,91015625	23,34765625	3,41015625	NDF Monitoring, ND Filter IN
49	15,9375	STANDARD	130	129,90625	134,9765625	0,03125	SO&C_Scan_long_duration
50	15,9375	STANDARD	3	2,91015625	7,98046875	0,03125	SO&C_Scan_fast_sweep
51	15,9375	STANDARD	64	63,91015625	68,98046875	0,03125	SO&C_Point
52	15,9375	STANDARD	30	29,91015625	38,71484375	3,12890625	Sun_Diffusor_Cal_ND_O
53	15,9375	STANDARD	22	21,91015625	28,4609375	0,03125	Sub_Solar_Cal_Point
54	15,9375	STANDARD	12	11,91015625	15,578125	0,69140625	Moon_Cal_Scan
55	15,9375	STANDARD	142	141,90625	145,5820313	0,69921875	MO&C_Point_Troposphere
56	15,9375	STANDARD	40	39,91015625	43,578125	0,69140625	MO&C_Point
57	15,9375	STANDARD	128	127,90625	131,5820313	0,69921875	MO&C_Point_long_duration
58	15,9375	STANDARD	22	21,91015625	28,4609375	0,03125	Sub_Solar_Cal_Point/Scan
59	15,9375	STANDARD	12	11,91015625	21,57421875	3,41796875	Spectral_Lamp_Cal_Mirror
60	15,9375	STANDARD	22	21,91015625	28,4609375	0,03125	Sub_Solar_Cal_Scan
61	15,9375	STANDARD	12	11,91015625	23,34765625	3,41015625	White_Lamp (ND_IN)
62	15,9375	STANDARD	30	29,91015625	39,74609375	3,12890625	Sun_Diffusor_Cal_ND_I
63	15,9375	STANDARD	30	29,91015625	33,55859375	0,671875	Dark_Current_Cal_2
64	15,9375	STANDARD	4	3,91015625	8,98046875	0,03125	Sun_Nadir/Elev_Mir_Cal_Point
65	15,9375	STANDARD	20	19,91015625	42,19921875	0,671875	ADC/Cal_Scan/Maintenance
66	15,9375	STANDARD	11	10,91015625	15,98046875	0,03125	Sun_Nadir/Elev_Mir_Cal_Scan
67	15,9375	STANDARD	80	79,90625	83,5625	0,6796875	Dark_Current_Cal_3
68	15,9375	STANDARD	3	2,91015625	7,98046875	0,03125	Sun_Nadir/Elev_Mir_Cal_fast_sweep
69	15,9375	STANDARD	80	79,90625	89,578125	3,42578125	Spectral_Lamp_Cal_Diffusor
70	15,9375	STANDARD	80	79,90625	90,3203125	3,41796875	White_Lamp_Cal (ND_OUT)

A.1.4 RTCS Duration

The RTCS Duration table shows how long the individual phases of a state will last. It supplements the State Duration table (chapter 5.1.5).

Table Template:

Columns:

Measurement Category Name:	identifier of measurement category, appended by a sequential counter for identical categories
State ID:	identifier of the state
RTCS:	identifier of the applicable RTCS
T Measurement Phase n (nominal), n=1-6:	duration of all phases within the measurement window of a state in seconds; the activities of each phase are described in A 2; phases for the transition at the beginning and end of a state are not listed; note that Measurement Phase 6 is currently unused
Nominal Measurement Duration:	duration of measurement window as defined in seconds
Max. Integration Time:	maximum duration for integration of science data before submission to data packeting in seconds
T Set Up:	time required for preparing the instrument to execute the measurement of the state in seconds
T Measurement:	time required to execute the measurement phase of the state in seconds
T Clean Up:	time required to bring the instrument back from measurement to nominal configuration in seconds
SDPU Duration (sec):	definition of SDPU measurement mode in seconds
Wait Measurement Execution - WM:	definition of the RTCS Wait parameter WM (the time to wait for the termination of the nominal scan, i.e. excluding the last phase of a state, in seconds
State Duration:	definition of the total duration of the state, including all phases of the state (equivalent to the RTCS execution time plus add. 4 cts) in seconds
Scanner Reset Wait - WSR:	definition of the RTCS Wait parameter WSR (the time to wait for the termination of the last phase of a state) in seconds

Table not updated and deleted

A.1.5 Co-Adding

The relation between State identifier, Co-Adding, Cluster definition, PETs and the data rates is summarized in the following table. It provides an overview of which combinations of these quantities are presently defined. Co-Adding Table IDs without assigned other parameters are not used.

Table Template:

Columns:

Coadding Table ID:	identifier of the Co-Adding table; the Co-Adding tables are given in chapter 5.1.6
Cluster Definition Index:	selection of the clustering scheme; the Cluster Definition table is given in chapter 5.2.4
PET:	set of PETs as defined in the Pixel Exposure Time parameter support table (chapter A 1.1)
Data Rate:	data rate for which the exposure time set applies

Coadding Table ID	Cluster Definition Index	PET/Coadd-table	Data Rate
1	1	L1	low
2	1	L2	low
3	1	L3	low
4	1	L4	low
5	1	L5	low
6	1	L6	low
7			
8			
9			
10	1	L1-L6	**high**
11			
12			
13			
14			
15			
16			
17	1	ASM_Diff 1-6	low**/high**
18			
19			
20			
21	3	N1*	low
22	3	N2*	low
23	3	N3*	low
24	3	N4*	low
25	3	N5*	low
26	3	N6*	low
27	3	N7*	low
28			
29			
30	3	N1-N7*	**high**
31	1	Sun	low
32	1	Sun	**high**
33			
34			
35	1	Sun_Fast_Sweep	low
36	1	Sun_Fast_Sweep	**high**
37			
38			
39	1	Sun_Diffuser	low
40	1	Sun_Diffuser	**high**
41			
42			
43	1	ADC/scan	low
44	1	ADC/scan	**high**
45	1	Dark Current 1	low**/high**
46			
47	1	Moon	low**/high**
48	1	NDF_Mon	low**/high**
49	1	Dark Current 2	low**/high**
50	1	Dark Current 3	low**/high**
51	1	Dark Current 4	low**/high**
52	1	Dark Current 5	low**/high**
53	1	SLS	low**/high**
54			
55	1	WLS	low**/high**
56			
57	1	SLS_Diffuser	low**/high**
58			
59	1	WLS_Diffuser	low**/high**
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			

*** NOTE** For N1 - N7 with cluster definition index = 3 the corresponding PET/Coadd-table applies only for PET. The used PET/Coadd-table represents the nominal T-INT.

A.1.6 Cluster Definition

This table provides supporting information for the definition of the clusters. It supplements the Cluster Definition table in chapter 5.2.4. For each cluster definition (indicated at top of each table), the clustering within all 8 channels is given.

Table Template:

Upper section:

Columns:

Channel ID:	identifier of the channel; range = 1-8
Channel - Start Pixel:	identifier of the first used pixel in the channel (excluding blinded pixels); range = 0-1023
Channel - End Pixel:	identifier of the last used pixel in the channel (excluding blinded pixels); range=0-1023
Channel - Length:	number of used pixels in the channel (End Pixels- Start Pixel+1)
Channel Wavelength - Min:	Start Pixel expressed in nm
Channel Wavelength - Max:	End Pixel expressed in nm

Lower section:

Columns:

Cluster ID:	identifier of the cluster within the channel (including clusters with unused and blinded pixels); range = 0-15
Cluster - Start Pixel:	identifier of the first pixel in the cluster
Cluster - End Pixel:	identifier of the last pixel in the cluster
Cluster - Length:	number of pixels in the cluster (End Pixels- Start Pixel+1)
Cluster Wavelength - Min:	Start Pixel expressed in nm (only for clusters with used pixels)
Cluster Wavelength - Max:	End Pixel expressed in nm (only for clusters with used pixels)
Description:	characterisation of unused and blinded pixels, virtual channels, overlaps and major measurement targets (AE = aerosols)
Cluster Index:	identifier of the cluster; range = 1-64 (maximum)
Cluster Identifier:	same as ”Cluster ID”
Start Pixel:	same as ”Cluster - Start Pixel”
Length:	same as ”Cluster - Length”

Cluster Definition 1

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
1	5	841	837	213,29	313,92	

Pixel calculation	
Pixel	Wavelength
842	314 nm

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	1	0	0	5
1	5	196	192	213,29	239,88	straylight	2	1	5	192
2	197	551	355	240,00	281,90	virtual channel 1a	3	2	197	355
3	552	841	290	282,01	313,92	virtual channel 1b	4	3	552	290
4	842	1018	177	314,03	333,80	unused pixel	5	4	842	177
5	1019	1023	5			Blinded Pixel	6	5	1019	5

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Cluster Definition 1

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
2	76	947	872	403,96	309,43	

Note: lower limit of PMD 1 should be 307 nm, but this is outside of channel limits

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	7	0	1024	5
1	5	75	71	411,63	404,07	unused pixel	8	1	1029	71
2	76	853	778	403,96	320,14	virtual channel 2b	9	2	1100	778
3	854	947	94	320,02	309,43	virtual channel 2a	10	3	1878	94
4	948	1018	71	309,31	301,18	unused pixel	11	4	1972	71
5	1019	1023	5			Blinded Pixel	12	5	2043	5

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Cluster Definition 1

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
3	33	929	897	391,88	605,48	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	13	0	2048	10
1	10	32	23	386,09	391,63	unused pixel	14	1	2058	23
2	33	929	897	391,88	605,48	Channel 3 (main part)	15	2	2081	897
3	930	1018	89	605,72	627,17	unused pixel	16	3	2978	89
4	1019	1023	5			Blinded Pixel	17	4	3067	5

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Cluster Definition 1

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
4	10	918	909	597,60	789,85	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	18	0	3072	5
1	5	9	5	596,48	597,38	unused pixel	19	1	3077	5
2	10	918	909	597,60	789,85	Channel 4 (main part)	20	2	3082	909
3	919	1018	100	790,06	811,25	unused pixel	21	3	3991	100
4	1019	1023	5			Blinded Pixel	22	4	4091	5

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Cluster Definition 1

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
5	10	1000	776	776,24	1056,25	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	23	0	4096	5
1	5	9	5	774,73	775,94	unused pixel	24	1	4101	5
2	10	1000	991	776,24	1056,25	Channel 5 (main part)	25	2	4106	991
3	1001	1018	18	1056,53	1061,40	unused pixel	26	3	5097	18
4	1019	1023	5			Blinded Pixel	27	4	5115	5

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Cluster Definition 1

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
6	24	996	973	990,84	1750,09	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	28	0	5120	10
1	10	23	14	979,55	990,03	unused pixel	29	1	5130	14
2	24	996	973	990,84	1750,09	Channel 6/6+ (main part)	30	2	5144	973
3	997	1013	17	1750,92	1764,24	unused pixel	31	3	6117	17
4	1014	1023	10			Blinded Pixel	32	4	6134	10

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Cluster Definition 1

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
7	48	987	940	1939,99	2040,19	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	33	0	6144	10
1	10	47	38	1935,55	1939,88	unused pixel	34	1	6154	38
2	48	987	940	1939,99	2040,19	Channel 7 (main part)	35	2	6192	940
3	988	1013	26	2040,29	2042,70	unused pixel	36	3	7132	26
4	1014	1023	10			Blinded Pixel	37	4	7158	10

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Cluster Definition 1

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
8	10	1013	1004	2260,61	2384,49	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	38	0	7168	10
1	10	1013	1004	2260,61	2384,49	Channel 8	39	1	7178	1004
2	1014	1023	10			Blinded Pixel	40	2	8182	10

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Cluster Definition 2

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max					
1	216	807	592	240	314					
	Cluster			Cluster Wavelength [nm]		Description				
Cluster ID	Start Pixel	End Pixel	Length	Min	Max		Cluster Index	Cluster Identifier	Start Pixel	Length
0	4	4	5			Blinded Pixel	1	0	0	5
	5	215	211			unused pixel				
1	216	743	528	240,00	305,99	virtual channel 1a	2	1	216	528
2	744	767	24	306,11	308,99	virtual channel 1b	3	2	744	24
3	768	807	40	309,12	314,00	overlap region	4	3	768	40
	808	1018	211			unused pixel				
4	1019	1023	5			Blinded Pixel	5	4	1019	5

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Cluster Definition 2

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max					
2	95	929	835	405	309					
	Cluster			Cluster Wavelength [nm]		Description				
Cluster ID	Start Pixel	End Pixel	Length	Min	Max		Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	6	0	1024	5
	5	94	90			unused pixel				
1	95	190	96	405,00	394,06	overlap region	7	1	1119	96
2	191	833	643	393,95	320,05	virtual channel 2b	8	2	1215	643
3	834	885	52	319,94	314,06	virtual channel 2a	9	3	1858	52
4	886	929	44	313,95	309,00	overlap region	10	4	1910	44
	930	1018	89			unused pixel				
5	1019	1023	5			Blinded Pixel	11	5	2043	5

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Cluster Definition 2

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max					
3	46	975	930	394	620					
	Cluster			Cluster Wavelength [nm]		Description				
Cluster ID	Start Pixel	End Pixel	Length	Min	Max		Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	12	0	2048	5
	5	45	41			unused pixel				
1	46	91	46	394,00	404,95	overlap region	13	1	2094	46
2	92	173	82	405,19	424,90		14	2	2140	82
3	174	276	103	425,14	449,95	NO2	15	3	2222	103
4	277	481	205	450,20	499,82	Ozone	16	4	2325	205
5	482	687	206	500,07	549,94		17	5	2530	206
6	688	728	41	550,18	559,91	AE	18	6	2736	41
7	729	909	181	560,16	603,94		19	7	2777	181
8	910	975	66	604,19	620,00	overlap region	20	8	2958	66
	976	1018	43			unused pixel				
9	1019	1023	5			Blinded Pixel	21	9	3067	5

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Cluster Definition 2

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
4	46	976	931	604	805	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	22	0	3072	5
	5	45	41			unused pixel				
1	46	120	75	604,00	619,99	overlap region	23	1	3118	75
2	121	277	157	620,21	653,93		24	2	3193	157
3	278	323	46	654,14	663,87	AE	25	3	3350	46
4	324	744	421	664,08	754,86		26	4	3396	421
5	745	860	116	755,07	779,93	Clouds	27	5	3817	116
6	861	883	23	780,15	784,90		28	6	3933	23
7	884	975	92	785,12	804,78	overlap region	29	7	3956	92
	976	1018	43			unused pixel				
8	1019	1023	5			Blinded Pixel	30	8	4091	5

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Cluster Definition 2

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
5	54	967	914	785	1050	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	31	0	4096	5
	5	53	49			unused pixel				
1	54	122	69	785,00	804,74	overlap region	32	1	4150	69
2	123	313	191	805,03	860,18		33	2	4219	191
3	314	346	33	860,47	869,75	AE	34	3	4410	33
4	347	760	414	870,04	989,92		35	4	4443	414
5	761	794	34	990,21	999,79	AE	36	5	4857	34
6	795	829	35	1000,08	1009,95		37	6	4891	35
7	830	967	138	1010,24	1050,00	overlap region	38	7	4926	138
	968	1018	51			unused pixel				
8	1019	1023	5			Blinded Pixel	39	8	5115	5

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Cluster Definition 2

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
6	45	977	933	1000	1750	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	40	0	5120	10
	10	56	47			unused pixel				
1	57	107	51	1009,66	1049,89	overlap region	41	1	5177	51
2	108	337	230	1050,70	1234,98		42	2	5228	230
3	338	361	24	1235,78	1254,29	AE	43	3	5458	24
4	362	529	168	1255,10	1389,48		44	4	5482	168
5	530	554	25	1390,29	1409,60	Water Vapour	45	5	5650	25
6	555	728	174	1410,41	1549,62		46	6	5675	174
7	729	790	62	1550,43	1599,52	Water/Ice	47	7	5849	62
8	791	914	124	1600,32	1699,30	Water/Ice	48	8	5911	124
9	915	977	63	1700,11	1750,00	Water/Ice	49	9	6035	63
	978	1013	36			unused pixel				
10	1014	1023	10			Blinded Pixel	50	10	6134	10

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Cluster Definition 2

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
7	73	949	877	1940	2040	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	51	0	6144	10
	10	72	63			unused pixel				
1	73	949	877	1940,00	2040,00		52	1	6217	877
	950	1013	64			unused pixel				
2	1014	1023	10			Blinded Pixel	53	2	7158	10

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Cluster Definition 2

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
8	73	950	878	2265	2380	

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	54	0	7168	10
	10	72	63			unused pixel				
1	73	950	878	2265,00	2380,00		55	1	7241	878
	951	1013	63			unused pixel				
2	1014	1023	10			Blinded Pixel	56	2	8182	10

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Cluster Definition 3

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
1	5	841	837	213,29	313,92	

Pixel calculation Pixel	Pixel calculation Wavelength
842	314 nm

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Cluster Start Pixel	Cluster Length
0	0	4	5			Blinded Pixel	1	0	0	5
1	5	196	192	213,29	239,88	straylight	2	1	5	192
2	197	551	355	240,00	281,90	virtual channel 1a	3	2	197	355
3	552	747	196	282,01	303,54	virtual channel 1b	4	3	552	196
4	748	841	94	303,65	313,92	overlap region, PMD 1	5	4	748	94
	842	1018	177	314,03	333,80	unused pixel				
5	1019	1023	5			Blinded Pixel	6	5	1019	5

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Cluster Definition 3

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
2	76	947	872	403,96	309,43	

Pixel calculation Pixel	Pixel calculation Wavelength
278	382 nm

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Cluster Start Pixel	Cluster Length
0	0	4	5			Blinded Pixel	7	0	1024	5
	5	75	71	411,63	404,07	unused pixel				
1	76	189	114	403,96	391,87	overlap region 2b	8	1	1100	114
2	190	853	664	391,76	320,14	UV DOAS, PMD 1	9	2	1214	664
3	854	947	94	320,02	309,43	overlap region 2a, UV DOA	10	3	1878	94
	948	1018	71	309,31	301,18	unused pixel				
4	1019	1023	5			Blinded Pixel	11	4	2043	5

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Cluster Definition 3

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
3	33	929	897	391,88	605,48	

Pixel calculation Pixel	Pixel calculation Wavelength
612	530 nm

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Cluster Start Pixel	Cluster Length
0	0	9	10			Blinded Pixel	12	0	2048	10
	10	32	23	386,09	391,63	unused pixel				
1	33	82	50	391,88	404,10	overlap region	13	1	2081	50
2	83	162	80	404,34	423,73		14	2	2131	80
3	163	598	436	423,97	526,96	VIS DOAS, PMD 2	15	3	2211	436
4	599	673	75	527,20	544,56		16	4	2647	75
5	674	760	87	544,80	565,08	AE	17	5	2722	87
6	761	895	135	565,31	597,28		18	6	2809	135
7	896	929	34	597,52	605,48	overlap region	19	7	2944	34
	930	1018	89	605,72	627,17	unused pixel				
8	1019	1023	5			Blinded Pixel	20	8	3067	5

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Cluster Definition 3

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max		Pixel calculation Pixel	Pixel calculation Wavelength
4	10	918	909	597,60	789,85		116	620 nm

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	21	0	3072	5
	5	9	5	596,48	597,38	unused pixel				
1	10	45	36	597,60	605,43	overlap region	22	1	3082	36
2	46	77	32	605,65	612,53		23	2	3118	32
3	78	612	535	612,75	725,99	PMD 3, AE	24	3	3150	535
4	613	746	134	726,19	753,77		25	4	3685	134
5	747	852	106	753,98	775,92	O2(A)	26	5	3819	106
6	853	918	66	776,13	789,85	overlap region	27	6	3925	66
	919	1018	100	790,06	811,25	unused pixel				
7	1019	1023	5			Blinded Pixel	28	7	4091	5

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Cluster Definition 3

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max		Pixel calculation Pixel	Pixel calculation Wavelength
5	10	1000	991	776,24	1056,25		483	910 nm

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	4	5			Blinded Pixel	29	0	4096	5
	5	9	5	774,73	775,94	unused pixel				
1	10	55	46	776,24	789,74	overlap region	30	1	4106	46
2	56	83	28	790,04	798,06		31	2	4152	28
3	84	608	525	798,35	946,62	PMD 4/7, AE	32	3	4180	525
4	609	766	158	946,90	990,40		33	4	4705	158
5	767	1000	234	990,68	1056,25	overlap region, (AE)	34	5	4863	234
	1001	1018	18	1056,53	1061,40	unused pixel				
6	1019	1023	5			Blinded Pixel	35	6	5115	5

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Cluster Definition 3

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max		Pixel calculation Pixel	Pixel calculation Wavelength
6	24	996	973	990,84	1750,09		637	1470 nm

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	36	0	5120	10
	10	23	14	979,55	990,03	unused pixel				
1	24	106	83	990,84	1056,23	overlap region	37	1	5144	83
2	107	334	228	1057,02	1233,24		38	2	5227	228
3	335	360	26	1234,01	1253,14	AE	39	3	5455	26
4	361	538	178	1253,90	1388,96		40	4	5481	178
5	539	566	28	1389,72	1410,36	Water Vapour	41	5	5659	28
6	567	745	179	1411,12	1548,51		42	6	5687	179
7	746	899	154	1549,30	1670,70	Water/Ice cloud & PMD 5	43	7	5866	154
8	900	930	31	1671,51	1695,84		44	8	6020	31
9	931	944	14	1696,65	1707,26	add. Water/Ice cloud	45	9	6051	14
10	945	996	52	1708,08	1750,09		46	10	6065	52
	997	1013	17	1750,92	1764,24	unused pixel				
11	1014	1023	10			Blinded Pixel	47	11	6134	10

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Cluster Definition 3

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
7	48	987	940	1939,99	2040,19	

Pixel calculation	
Pixel	Wavelength
48	1940 nm

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	48	0	6144	10
	10	47	38	1935,55	1939,88	unused pixel				
1	48	292	245	1939,99	1967,79		49	1	6192	245
2	293	440	148	1967,90	1984,05	CO2	50	2	6437	148
3	441	882	442	1984,15	2029,89		51	3	6585	442
4	883	987	105	2029,99	2040,19	CO2, H2O	52	4	7027	105
	988	1013	26	2040,29	2042,70	unused pixel				
5	1014	1023	10			Blinded Pixel	53	5	7158	10

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Cluster Definition 3

Channel ID	Channel Start Pixel	Channel End Pixel	Channel Length	Channel Wavelength [nm] Min	Channel Wavelength [nm] Max	
8	10	1013	1004	2260,61	2384,49	

Pixel calculation	
Pixel	Wavelength
46	2265 nm

Cluster ID	Cluster Start Pixel	Cluster End Pixel	Cluster Length	Cluster Wavelength [nm] Min	Cluster Wavelength [nm] Max	Description	Cluster Index	Cluster Identifier	Start Pixel	Length
0	0	9	10			Blinded Pixel	54	0	7168	10
1	10	1013	1004	2260,61	2384,49	PMD 6, Ch. 8, unused pixel	55	1	7178	1004
2	1014	1023	10			Blinded Pixel	56	2	8182	10

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A.1.7 Scan Profiles

Four support tables are listed. They provide a short description of the purpose of each Basic Scan Profile (one for azimuth and one for elevation - see chapters 5.1.1 and 5.2.1), of the Relative Scan Profiles (see chapter 5.1.1 and 5.2.2) and of the correction applied to the Nominal Scan Profile via the Scanner State Parameter tables (see chapter 5.1.1).

Table Template:

Basic Profiles (azimuth and elevation) - Columns:

Basic Scan Profile Identifier:	identifier and purpose of each Basic Scan Profile
Position [10^{-6} rad]:	definition of the scanner start position of a basic scan profile in µrad (identical to parameters in Basic Scan Profile - 5.2.1)
Position deg:	definition of the scanner start position of a basic scan profile in degree
Rate [10^{-6} rad/sec]:	definition of the scanner rate in µrad/sec (identical to parameters in Basic Scan Profile - 5.2.1)
Rate deg/sec:	definition of the scanner rate in degree/sec
Description of the intended use of profile:	purpose of corresponding profile

Corrections - Columns:

Description of Correction Function:	identifier and purpose of each correction function applied to the Nominal Scan Profile

Relative Profile - Columns:

Relative Scan Profile Identifier:	identifier and purpose of each Relative Scan Profile
Rel. Position for factor=1 [10^{-3} deg]:	maximum relativ angular position variation within a Relative Profile in 10^{-3} deg

Azimuth Basic Scan Profile Identifier		Position [10-6 rad]	Position deg	Rate [10-6 rad/sec]	Rate deg/sec	Description of the intended use of profile
0	no scan	000000000	*0,0000*	000000000	*0,0000*	ASM new position IDLE
1	nadir; all other states without ASM	000000000	*0,0000*	000000000	*0,0000*	ASM new unused position pointing into telescope, mirror not used
2	limb azimuth scanning / pointing	-000078398	*-45,0000*	000000000	*0,0000*	ASM pointing in direction of velocity vector (-y)
3	sun pointing / scanning with mirror, start 17,2km above horizon	-000471239	*-27,0000*	000000131	*0,0075*	ASM following trajectory of sun from position of sunrise
4	sun_asm_diffuser_01 / position 1	000328672	*189,0000*	-000008145	*-0,4667*	ASM_Diffuser_1 - starting position +9 deg diffuser normal
5	moon pointing / scanning with mirror, start 17,2km above horizon	-000103564	*-57,5000*	-000000174	*-0,0100*	ASM following moon trajectory from mean position of the full moon (245 deg)
6	sun pointing with ESM diffusor	-000048621	*-26,8500*	000000131	*0,0075*	ASM following sun trajectory
7	scanner maintenance	-000628185	*-360,0000*	000000000	*0,0000*	ASM position for 360 deg revolution of scanner bearings
8	mirror degradation mode sun pointing / scanning	-000048621	*-26,8500*	000000131	*0,0075*	ASM following sun trajectory
9	dark current (pointing in flight direction)	-000078398	*-45,0000*	000000000	*0,0000*	ASM pointing in direction of velocity vector (-y)
10	sun_asm_diffuser_02 / position 2	000326766	*187,0000*	-000008145	*-0,4667*	ASM_Diffuser_2 - starting position +7 deg diffuser normal; ASM_diffuser_atmosphere
11	sun_asm_diffuser_03 / position 3	000322839	*185,0000*	-000008145	*-0,4667*	ASM_Diffuser_3 - starting position +5 deg diffuser normal
12	sun_asm_diffuser_04 / position 4	000319393	*183,0000*	-000008145	*-0,4667*	ASM_Diffuser_4 - starting position +3 deg diffuser normal
13	sun_asm_diffuser_05 / position 5	000315904 6	*181,0000*	-000008145	*-0,4667*	ASM_Diffuser_5 - starting position +1 deg diffuser normal
14	in sun direction (elevation 17,2 km above horizon continously)	-000471239	*-27,0000*	000000227	*0,0130*	ASM following trajectory of sun from position of sunrise

Elevation Basic Scan Profile Identifier		Position [10-6 rad]	Position deg	Rate [10-6 rad/sec]	Rate deg/sec	Description of the intended use of profile
0	no scan	-000026179 9	*-1,5000*	000000000	*0,0000*	ESM position IDLE
1	nadir	-000079412 5	*-45,5000*	000000000	*0,0000*	ESM pointing in slightly shifted nadir direction (-z) - start position for nadir_pointing_left
2	limb azimuth scanning / pointing	-000023710 1	*-13,5849*	000000000	*0,0000*	ESM pointing one elevation step below horizon (3 km)
3	sun pointing / scanning with mirror, start 17,2km above horizon	-000023403 2	*-13,4090*	000000044 5	*0,0255*	ESM following sun from start at 17,2 km above horizon (= fix angle of ESM related to FOO)
4	sub solar calibration	000009361 11	*56,5000*	000000000	*0,0000*	ESM pointing to mean sun elevation within sub-solar window
5	pointing 150km altitude; limb-mesosphere	-000021384 9	*-12,2526*	000000000	*0,0000*	ESM pointing at 150 km above horizon
6	sun pointing with ESM diffusor	000287979 3	*165,0000*	000000000	*0,0000*	ESM diffusor in fixed ESM pos. of 180-15 deg - timing required for normal incidence of sun on ESM
7	scanner maintenance	-000628318 5	*-360,0000*	000000000	*0,0000*	ESM position for 360 deg revolution of scanner bearings
8	mirror degradation mode sun pointing / scanning	000057071 4	*32,6995*	000000022 2	*0,0127*	ESM following sun via extra_mirror with half angular velocity from start at 150 km above horizon
9	dark current (pointing 250km altitude), Sun_ASM_diffuser	-000019643 7	*-11,2550*	000000000	*0,0000*	ESM pointing at 250 km above horizon
10	internal wavelength calibration with mirror	000017048 0	*9,7678*	000000000	*0,0000*	ESM pointing to SLS (9.768 deg)
11	internal wavelength / relative radiometric calibration with diffusor	000331961 7	*190,2000*	000000000	*0,0000*	ESM pointing diffusor to internal calibration sources (10.2 + 180 deg)
12	internal relative radiometric calibration	000018363 8	*10,5228*	000000000	*0,0000*	ESM pointing to WLS (10.523 deg)
13	WLS - NDF-monitoring_NDFM IN/OUT	000018627 9	*10,6730*	000000000	*0,0000*	ESM pointing to WLS under non-optimal angle (10.673 deg)
14	in sun direction (elevation 17,2 km above horizon continously)	-000023403 2	*-13,4090*	000000000	*0,0000*	ESM pointing at 17.2 km above horizon

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	Description of Correction Function
0	no correction
1	optical zero correction
2	correct with earth model without yaw steering
3	correct with earth model with yaw steering
4	sun/moon acquisition, switch to sun follower readout A
5	sun/moon acquisition, switch to sun follower readout B
6	sun/moon pointing, switch to sun follower readout A
7	sun/moon pointing, switch to sun follower readout B
8	sun/moon tracking using S/C AOCS
9	improved sun/moon tracking using S/C AOCS

	Relative Scan Profile Identifier	Rel. Position for factor=1 [10-3 deg]
0	no relative scan	0,00000000
1	limb elevation steps	4,75554970
2	nadir elevation scan	3851,76607400
3	limb azimuth scan	2145,72694300
4	sun / moon scanning with mirror elevation	82,50592250
5	all pointing modes w. prediction/correction: - limb azimuth pointing direction - sun pointing with mirror azimuth & elevation - sun scanning with mirror azimuth - sun pointing with diffusor - subsolar calibration - moon pointing with mirror azimuth - moon scanning with mirror azimuth & elavation	70,58840036
6	- fast sweep	84,96964100

A.2 State Description

The following state descriptions summarise the activities within each state. They should be considered as summaries of the measurement performance within each state and as a quick reference guide to understand the sequence of individual state events.

State Descriptions

The state descriptions summarise the activities within each state. They should be considered as summaries of the measurement performance within each state and as a quick reference guide to understand the sequence of individual state events.

The description of each state is given in the form of a table. The table content is as follows

Header.....	state ID with acronym, the measurement type and measurement category
ILOS.....	strategy and targeting of the instantaneous line of sight (ILOS)
Scan.....	type of scan, centre of scan motion, width, number of repetitions and velocity resp. duration
Swath.....	image of the scan of the instantaneous field of view (IFOV) on the earth surface
Measurement Duration.....	measurement duration, partly split into different measurement phases
Exposure Control.....	pixel exposure time
Integration Time.....	range of integration times = pixel exposure time* co-adding
Pixel Size (Ground Pixel).....	spatial resolution (dependant on selected integration time)

The state descriptions presented here are those for nominal operations, i.e. they represent the final flight states as of October 2003 (FFS_021215 incl. OCR_009). This final flight state version had been uploaded December 15th, 2002 and in subsequent corrective mcmd-sequences.

State ID	State Acronym	State ID	State Acronym	State ID	State Acronym	State ID	State Acronym
01	nad01	19	ascd03	37	limb10	55	mop03
02	nad02	20	ascd04	38	lnad01	56	mop01
03	nad03	21	ascd05	39	dcchm	57	mop02
04	nad04	22	asad01	40	limb13	58	sscp01
05	nad05	23	nad23	41	limb12	59	lsc01
06	nad06	24	nad24	42	nad26	60	sscs01
07	nad07	25	nad25	43	nad27	61	lwc01
08	dcc05	26	dcc04	44	nad28	62	escd02
09	nad09	27	elimb01	45	nad29	63	dcc02
10	nad10	28	limb01	46	dcc01	64	nmep01
11	nad11	29	limb02	47	sos02	65	adc01
12	nad12	30	limb03	48	lwnd01	66	nmes02
13	nad13	31	limb04	49	sos01	67	dcc03
14	nad14	32	limb05	50	scs01	68	nmes01
15	nad15	33	limb06	51	sop01	69	lsd01
16	lwnd02	34	limb11	52	escd01	70	lwd01
17	ascd01	35	limb08	53	sscp02		
18	ascd02	36	limb09	54	mos01		

State Description Tables

State ID 01 nad01	Scientific measurement	Nadir
ILOS	Description	
	In State 01 the Earth atmosphere is observed centering the line of sight (LOS) towards Nadir. To adjust the ILOS (Instantaneous Line of Sight), SCIAMACHY uses for the measurement only the nadir/elevation scan mirror (ESM).	
Scan	By the orbital motion the atmospheric volume above the subsatellite point along the ground track is observed during the duration of the measurement. The scan motion of the ESM moves the ILOS in crosstrack direction. The basic position of the ESM is controlled by basic profile 1 a position of -45.5°, corresponding to a slightly shifted nadir-direction (-z) for the ILOS. This shift is to avoid partial obscuration of the nadir pixels on the extreme right side of the scan. The motion of the ESM is controlled by relative scan profile 2, yields an ILOS scan of about 61.6°. This profile produces a relative motion of the ESM (relative to -45,5° basic position) of fixed duration for 4 seconds in positive direction and a flyback (reverse motion) to the original angular position within 1 second. The 4 second forward motion produces a scan of the ground pixel in east-west direction (for the descending north-south pass of the orbit). The resulting swath is reduced by 1° ILOS on its right side and maintains the original angular position on the left side.	
Swath	To adjust the Earth coverage the swath is set to 940 km by setting the scan speed to 16°/s. Centering of the scan gives a start position (for the descending north-south pass of the orbit) of the forward scan of 465 km left of the subsatellite point (ESM angular position at approx. -60,9°) and a turnaround position of the backward scan of 475 km right of the subsatellite point (ESM angular position -30,1°).	
Measurement duration	The duration of the measurement is set to 80 s, which results in 16 forward and flyback scans. A stretch of 4.77° of the orbit is passed during this time.	
Exposure control	The exposure of the focal plane linear detector arrays (channels) is controlled by a subset of parameters setting the exposure times of the channels (6 plus 4 virtual) respectively the defined clusters and the corresponding co-adding factors. The exposure parameters for nad01 are set to produce optimal signals for the orbital position 183°. The definitions are summarised in PET table N1.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad01 low rate data they are listed in integration_time table 21.	
Pixel size (Ground pixel)	The ground pixel size is determined by the motion of the Instantaneous Field of View (IFOV) of the instrument of 1.8° * 0.045° corresponding to approx. 25 km * 0.6 km on ground - over the atmosphere during the integration time. The motion is a combined motion of the scan mirror and the orbital motion of the spacecraft. Since the integration time is diverse, and the angular speed for forward and flyback is different by a factor 4 the ground pixel size varies between approx. 92 km * 960 km (along track * across track) and approx. 32 km * 240 km.	

State ID 02 nad02	Scientific measurement	Nadir
ILOS	Description	
	see state ID 01	
Scan	see state ID 01; speed 16°/s	
Swath	see state ID 01; width 940 km	
Measurement duration	The duration of the measurement is set to 80 s, which results in 16 forward and flyback scans. A stretch of 4.77° of the orbit is passed during this time.	
Exposure control	see state ID 01 The exposure parameters for nad02 are set to produce optimal signals for the orbital	

	position -3° to 5° and 175° to 183°. The definitions are summarised in table PET table N2.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad02 low rate data they are listed in integration_time table 22.
Pixel size (Ground pixel)	see state ID 01 The ground pixel size varies between approx. 92 km* 960 km (along track* across track) and approx. 32 km* 240 km.

State ID 03 nad03	Scientific measurement	Nadir
ILOS	Description	
	see state ID 01	
Scan	see state ID 01; speed 16°/s	
Swath	see state ID 01; width 940 km	
Measurement duration	The duration of the measurement is set to 80 s, which results in 16 forward and flyback scans. A stretch of 4.77° of the orbit is passed during this time.	
Exposure control	see state ID 01 The exposure parameters for nad03 are set to produce optimal signals for the orbital position 5° to 16° and 164° to 175°. The definitions are summarised in PET table N3.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad03 low rate data they are listed in integration_time table 23.	
Pixel size (Ground pixel)	see state ID 01 The ground pixel size varies between approx. 59 km* 960 km (along track* across track) and approx. 27 km* 60 km.	

State ID 04 nad04	Scientific measurement	Nadir
ILOS	Description	
	see state ID 01	
Scan	see state ID 01; speed 16°/s	
Swath	see state ID 01; width 940 km	
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 forward and flyback scans. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	see state ID 01 The exposure parameters for nad04 are set to produce optimal signals for the orbital position 16° to 26° and 154° to 164°. The definitions are summarised in PET table N4.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad04 low rate data they are listed in integration_time table 24.	
Pixel size (Ground pixel)	see state ID 01 The ground pixel size varies between approx. 32 km* 240 km (along track* across track) and approx. 26 km* 30 km.	

State ID 05 nad05	Scientific measurement	Nadir
ILOS	Description	
	see state ID 01	
Scan	see state ID 01; speed 16°/s	

Swath	see state ID 01; width 940 km
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 forward and flyback scans. A stretch of 3.88° of the orbit is passed during this time.
Exposure control	see state ID 01 The exposure parameters for nad05 are set to produce optimal signals for the orbital position 26° to 36° and 144° to 154°. The definitions are summarised in PET table N5.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad05 low rate data they are listed in integration_time table 25.
Pixel size (Ground pixel)	see state ID 01 The ground pixel size varies between approx. 32 km* 240 km (along track* across track) and approx. 26 km* 30 km.

State ID 06 nad06	Scientific measurement	Nadir
ILOS	Description	
	see state ID 01	
Scan	see state ID 01; speed 16°/s	
Swath	see state ID 01; width 940 km	
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 forward and flyback scans. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	see state ID 01 The exposure parameters for nad06 are set to produce optimal signals for the orbital position 36° to 70° and 110° to 144°. The definitions are summarised in PET table N6.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad06 low rate data they are listed in integration_time table 26.	
Pixel size (Ground pixel)	see state ID 01 The ground pixel size varies between approx. 32 km* 240 km (along track* across track) and approx. 27 km* 60 km.	

State ID 07 nad07	Scientific measurement	Nadir
ILOS	Description	
	see state ID 01	
Scan	see state ID 01; speed 16°/s	
Swath	see state ID 01; width 940 km	
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 forward and flyback scans. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	see state ID 01 The exposure parameters for nad07 are set to produce optimal signals for the orbital position 70° to 110°. The definitions are summarised in PET table N7.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad07 low rate data they are listed in integration_time table 27.	
Pixel size (Ground pixel)	see state ID 01 The ground pixel size varies between approx. 59 km* 960 km (along track* across track) and approx. 27 km* 60 km.	

State ID 08	Calibration	Dark_Current_Calibration

dcc05		
ILOS	Description	
	In State 08 the ILOS is pointing in flight direction to an altitude safely above the earth atmosphere (250km above horizon, basic profile 9) to eliminate atmospheric influences on the dark current measurement. To adjust the ILOS, SCIAMACHY uses for the measurement the nadir/elevation scan mirror (ESM) and the azimuth scan mirror (ASM).	
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 40 s.	
Exposure control	The exposure parameters for dcc05 are summarized in PET table Dark_Current_5.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For dcc05 low rate data they are listed in integration_time table 52.	
Pixel size	n.a.	

State ID 09 nad09	Scientific measurement	Nadir
ILOS	Description	
	see state ID 01	
Scan	see state ID 01 To adjust the view to a quasi telescopic close look the swath is set to 117 km by setting the scan speed to 2°/s.	
Swath	The width is set to 'small', i.e. 117 km. Centering of the scan gives a start position of the forward scan of 66 km east (for the descending north-south pass of the orbit) of the subsatellite point (ESM angular position -49,35°) and a turnaround position of the forward scan of 51 km west of the subsatellite point (ESM angular position -41,65°).	
Measurement duration	The duration of the measurement is set to 80 s, which results in 16 forward and flyback scans. A stretch of 4.77° of the orbit is passed during this time.	
Exposure control	see state ID 01 The exposure parameters for nad09 are set to produce optimal signals for the orbital position 183°. The definitions are summarised in PET table N1.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad09 low rate data they are listed in integration_time table 21.	
Pixel size (Ground pixel)	The ground pixel size is determined by the motion of the Instantaneous Field of View (IFOV) of the instrument of 1.8° * 0.045° corresponding to approx. 25 km * 0.6 km on ground - over the atmosphere during the integration time. The motion is a combined motion of the scan mirror and the orbital motion of the spacecraft. Since the integration time is diverse, and the angular speed for forward and flyback is different by a factor 4 the ground pixel size varies between approx. 92 km* 117 km (along track* across track) and approx. 32 km* 30 km.	

State ID 10 nad10	Scientific measurement	Nadir
ILOS	Description	
	see state ID 09	
Scan	see state ID 09; speed 2° /s	
Swath	see state ID 09; width 117 km	

Measurement duration	The duration of the measurement is set to 80 s, which results in 16 forward and flyback scans. A stretch of 4.77° of the orbit is passed during this time.
Exposure control	see state ID 09 The exposure parameters for nad10 are set to produce optimal signals for the orbital position -3° to 5° and 175° to 183° . The definitions are summarised in PET table N2.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad10 low rate data they are listed in integration_time table 22.
Pixel size (Ground pixel)	see state ID 09 The ground pixel size varies between approx. 92 km* 117 km (along track* across track) and approx. 32 km* 30 km.

State ID 11 nad11	Scientific measurement	Nadir
ILOS	Description	
	see state ID 09	
Scan	see state ID 09; speed 2° /s	
Swath	see state ID 09; width 117 km see state ID 09; width 117 km	
Measurement duration	The duration of the measurement is set to 80 s, which results in 16 forward and flyback scans. A stretch of 4.77° of the orbit is passed during this time.	
Exposure control	see state ID 09 The exposure parameters for nad11 are set to produce optimal signals for the orbital position 5° to 16° and 164° to 175° . The definitions are summarised in PET table N3.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad11 low rate data they are listed in integration_time table 23.	
Pixel size (Ground pixel)	see state ID 09 The ground pixel size varies between approx. 59 km* 117 km (along track* across track) and approx. 27 km* 7.5 km.	

State ID 12 nad12	Scientific measurement	Nadir
ILOS	Description	
	see state ID 09	
Scan	see state ID 09; speed 2° /s	
Swath	see state ID 09; width 117 km	
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 forward and flyback scans. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	see state ID 09 The exposure parameters for nad12 are set to produce optimal signals for the orbital position 16° to 26° and 154° to 164° . The definitions are summarised in PET table N4.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad12 low rate data they are listed in integration_time table 24.	
Pixel size (Ground pixel)	see state ID 09 The ground pixel size varies between approx. 32 km* 30 km (along track* across track) and approx. 26 km* 3.75 km.	

State ID 13 nad13	Scientific measurement	Nadir

ILOS	Description
	see state ID 09
Scan	see state ID 09; speed 2° /s
Swath	see state ID 09; width 117 km
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 forward and flyback scans. A stretch of 3.88° of the orbit is passed during this time.
Exposure control	see state ID 09 The exposure parameters for nad13 are set to produce optimal signals for the orbital position 26° to 36° and 144° to 154° . The definitions are summarised in PET table N5.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad13 low rate data they are listed in integration_time table 25.
Pixel size (Ground pixel)	see state ID 09 The ground pixel size varies between approx. 32 km* 30 km (along track* across track) and approx. 26 km* 3.75 km.

State ID 14 nad14	Scientific measurement	Nadir
ILOS	Description	
	see state ID 09	
Scan	see state ID 09; speed 2° /s	
Swath	see state ID 09; width 117 km	
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 forward and flyback scans. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	see state ID 09. The exposure parameters for nad14 are set to produce optimal signals for the orbital position 36° to 70° and 110° to 144° . The definitions are summarised in PET table N6.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad14 low rate data they are listed in integration_time table 26.	
Pixel size (Ground pixel)	see state ID 09 The ground pixel size varies between approx. 32 km* 30 km (along track* across track) and approx. 27 km* 7.5 km.	

State ID 15 nad15	Scientific measurement	Nadir
ILOS	Description	
	see state ID 09	
Scan	see state ID 09; speed 2° /s	
Swath	see state ID 09; width 117 km	
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 forward and flyback scans. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	see state ID 09. The exposure parameters for nad15 are set to produce optimal signals for the orbital position 70° to 110° . The definitions are summarised in PET table N7.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad15 low rate data they are listed in integration_time table 27.	
Pixel size (Ground pixel)	see state ID 09 The ground pixel size varies between approx. 59 km* 117 km (along track* across track) and approx. 27 km* 7.5 km.	

State ID 16 lwnd02	Monitoring	NDF_Monitoring, ND Filter OUT
ILOS	Description	
	For the purpose of monitoring the ND filter, the WLS is observed via the ESM under a 'non-optimal' angle of 10.673° with the ND filter being 'OUT'. In phase1 the position of the ESM is acquired and in measurement phase 2 the ESM points to the WLS under this angle (basic scan profile 13).	
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 12 s.	
Exposure control	The exposure parameters for lwnd02 are summarised in PET table NDF_Monitoring. Note that channel 6 uses the Hot Mode (see Hot Mode table) with a PET of 14.4 ms.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For lwnd02 low rate data they are listed in integration_time table 48. The integration time given for channel 6 is the effective integration time which results from the Hot Mode. Readouts of channel 6 are obtained every 4 sec.	
Pixel size	n.a.	

State ID 17 ascd01	Calibration	Sun_ASM_Diffuser_Calibration
ILOS	Description	
	In state ID 17 sunlight is reflected onto the entrance slit of the spectrometer via the ASM diffuser which is mounted on the rear side of the ASM mirror. The Sun incidence angle onto the diffuser amounts to between 48.2° -65.5° . This is caused by the apparent motion of the Sun in azimuth (323.2° -326.5° for ascd01) and the required scan of the ASM of 14° during the measurement. The measurement starts when the Sun has reached an elevation of 22.5° , i.e. the angle of 'reflection' into the telescope is 22.5° . The aperture stop is set to 'large' and the ND filter is 'OUT'. In phase 1 the position of the ESM at 11.255° (corresponds to an altitude of 250 km, basic profile 9) and the position of the ASM are calculated (basic profile 4 without azimuth correction and H/W- constellation 1, ASM diffuser normal points towards +9° at the start of the state, i.e. ASM mirror normal = ASM angle amounts to 189°) and acquired. The ESM stays in this position fixed for the duration of the state. In the measurement phase 2 the ASM diffuser executes the scan of 14° thus changing the angle of incidence.	
Scan	A scan of 14° is performed. The scan speed amounts to 0.47° /s.	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 30 s.	
Exposure control	The exposure parameters for ascd01 are summarised in PET table Sun_ASM_diffuser.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For ascd01 high rate data they are listed in integration_time table 17.	
Pixel size	n.a..	

State ID 18 ascd02	Calibration	Sun_ASM_Diffuser_Calibration
ILOS	Description	
	see state ID 17 The state ascd02 is executed when the solar azimuth angle amounts to 326.5° -329.5° .	
Scan	see state ID 17; speed 0.47° /s	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 30 s.	
Exposure control	The exposure parameters for ascd02 are summarised in PET table Sun_ASM_diffuser.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For ascd02 high rate data they are listed in integration_time table 17.	
Pixel size	n.a.	

State ID 19 ascd03	Calibration	Sun_ASM_Diffuser_Calibration
ILOS	Description	
	see state ID 17 The state ascd02 is executed when the solar azimuth angle amounts to 329.5° -332.5° .	
Scan	see state ID 17; speed 0.47° /s	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 30 s.	
Exposure control	The exposure parameters for ascd03 are summarised in PET table Sun_ASM_diffuser.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For ascd03 high rate data they are listed in integration_time table 17.	
Pixel size	n.a..	

State ID 20 ascd04	Calibration	Sun_ASM_Diffuser_Calibration
ILOS	Description	
	see state ID 17 The state ascd04 is executed when the solar azimuth angle amounts to 332.5° -335.5° .	
Scan	see state ID 17; speed 0.47° /s	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 30 s.	
Exposure control	The exposure parameters for ascd04 are summarised in PET table Sun_ASM_diffuser.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For ascd04 high rate data they are listed in integration_time table 17.	
Pixel size	n.a.	

State ID 21 ascd05	Calibration	Sun_ASM_Diffuser_Calibration
ILOS	Description	
	see state ID 17 The state ascd05 is executed when the solar azimuth angle amounts to 335.5° -337.9° .	
Scan	see state ID 17; speed 0.47° /s	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 30 s.	
Exposure control	The exposure parameters for ascd05 are summarised in PET table Sun_ASM_diffuser.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For ascd05 high rate data they are listed in integration_time table 17.	
Pixel size	n.a.	

State ID 22 asad01	Monitoring	Sun_ASM_Diffuser_Atmosphere
ILOS	Description	
	In state asad01 the Sun is observed via the ASM diffuser while it rises through the atmosphere. Thus the atmosphere shall be used as a cut-off filter. For the ASM diffuser position an average angle relative to the Sun (basic profile 10, as for state ID ascd02) is used. During the measurement the ASM diffuser executes a scan of 14.9° as for the states ID 17-21. Since the azimuth angle of the Sun varies over a year (323.2° -337.9°), the incidence angle onto the ASM diffuser changes between 46.2° - 74.9° . The ESM remains fixed throughout the measurement. The aperture stop is set to 'large' and the ND filter is 'OUT'. The measurement starts when the Sun has reached an altitude of 17.2 km. In phase 1 the pointing position of the ESM at an altitude of 17.2 km (corresponds to an ESM angle of -13.41°, basic profile 14) and the position of the ASM are calculated (basic profile 10 without azimuth correction and H/W- constellation 1, ASM diffuser normal points towards +7° at the start of the state, i.e. ASM mirror normal = ASM angle amounts to 187°) and acquired. The ESM stays in this position fixed for the duration of the state. In the measurement phase 2 the ASM diffuser executes the scan of 14° while the Sun is rising.	
Scan	A scan of 14.9° is performed. The scan speed amounts to 0.47° /s.	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 32 s.	
Exposure control	The exposure parameters for asad01 are summarised in PET table Sun_ASM_diffuser.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For asad01 high rate data they are listed in integration_time table 17.	
Pixel size	n.a.	

State ID 23 nad23	Scientific measurement	Nadir_pointing

ILOS	Description
	In state ID 23 the earth atmosphere is observed pointing the line of sight (LOS) towards Nadir. To adjust the ILOS, SCIAMACHY uses for the measurement only the nadir/ elevation scan mirror (ESM). By the orbital motion the atmospheric volume above the subsatellite point along the ground track is observed during the duration of the measurement. No scan motion of the ESM via a relative scan profile is invoked, since all factors are set to zero. The ESM is standing still in the basic position controlled by basic profile 1 yielding a position of -45,5°, corresponding to a slight shift in nadir (-z) for the ILOS. The relative scan profile 2 is used only for the purpose of maintaining scanner control because of the applied Earth model correction throughout the measurement.
Scan	no scan
Swath	No swath is implied due to the stand still of the ESM. Principally the IFOV in dispersion direction of 0.045° (0.6 km) determines the 'swath'.
Measurement duration	The duration of the measurement is set to 80 s, which results in 16 consecutive still sequences. A stretch of 4.77° of the orbit is passed during this time.
Exposure control	The exposure parameters for nad23 are set to produce optimal signals for the orbital position 183°. The definitions are summarised in PET table N1.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad23 low rate data they are listed in integration_time table 21.
Pixel size (Ground pixel)	The ground pixel size is determined by the motion of the Instantaneous Field of View (IFOV) of the instrument of 1.8°* 0.045° corresponding to approx. 25 km* 0.6 km on ground - over the atmosphere during the integration time. The motion of the IFOV is contrary to the 'scanning' nadir observations only caused by the orbital motion of the spacecraft and its pointing stability. Since the integration time is diverse, the ground pixel size varies between approx. 92 km* 1 km (along track* across track) and approx. 32 km* 0.6 km.

State ID 24 nad24	Scientific measurement	Nadir_pointing
ILOS	Description	
	see state ID 23	
Scan	see state ID 23; no scan	
Swath	see state ID 23; none	
Measurement duration	The duration of the measurement is set to 80 s, which results in 16 consecutive still sequences. A stretch of 4.77° of the orbit is passed during this time.	
Exposure control	see state ID 23 The exposure parameters for nad24 are set to produce optimal signals for the orbital position -3° to 5° and 175° to 183°. The definitions are summarised in PET table N2.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad24 low rate data they are listed in integration_time table 22.	
Pixel size (Ground pixel)	see state ID 23 The ground pixel size varies between approx. 92 km* 1 km (along track* across track) and approx. 32 km* 0.6 km.	

State ID 25 nad25	Scientific measurement	Nadir_pointing
ILOS	Description	
	see state ID 23	
Scan	see state ID 23; no scan	

Swath	see state ID 23; none
Measurement duration	The duration of the measurement is set to 80 s, which results in 16 consecutive still sequences. A stretch of 4.77° of the orbit is passed during this time.
Exposure control	see state ID 23 The exposure parameters for nad24 are set to produce optimal signals for the orbital position 5° to 16° and 164° to 175°. The definitions are summarised in PET table N3.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad25 low rate data they are listed in integration_time table 23.
Pixel size (Ground pixel)	see state ID 23 The ground pixel size varies between approx. 59 km * 1 km (along track * across track) and approx. 27 km * 0.6 km.

State ID 26 dcc04	Calibration	Dark_Current_Calibration
ILOS	Description see state ID 08 ILOS pointing in flight direction to 250 km altitude above horizon.	
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 30 s.	
Exposure control	see state ID 08 The exposure parameters for dcc04 are summarized in PET table Dark_Current_4.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For dcc04 low rate data they are listed in integration_time table 51.	
Pixel size	n.a.	

State ID 27 elimb01	Scientific measurement	Limb_Mesosphere
ILOS	Description In State 27 the earth mesosphere is observed centring the line of sight (LOS) towards the tangent to the earth horizon in the forward direction of the orbit (horizontal distance ca. 3290 km). Contrary to the other limb states, state ID 27 executes a sequence of measurements starting at high (150 km) and descending to low altitudes (approx. 80 km). To adjust the ILOS, SCIAMACHY uses for the measurement the azimuth mirror (ASM) and the nadir/elevation scan mirror (ESM). No relative profile is applied to the ASM, i.e. no horizontal scan is performed. The basic position of the ASM is controlled by basic profile 2 yielding a position of -45°, corresponding to flight direction (-y) for the ILOS. The ESM moves, with a timing as for the scanning limb observations, the ILOS a defined number of angular step towards -z direction. The basic starting position of the ESM is at 150 km (basic profile 5). The elevation step is controlled by relative profile 1, which adjusts the vertical step of the ESM in elimb01 to 0.0285° corresponding to a height resolution approx. 3 km. 23 elevation steps are programmed, i.e. yielding a stop altitude of approx. 80 km.	
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 40.5 s.	
Exposure control	The exposure parameters for elimb01are set to produce optimal signals in the eclipse phase of the orbit. The definitions are summarised in PET table L6.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For elimb01 low rate data they are listed in integration_time table 6.	
Pixel size (‘column’ pixel)	The atmospheric ‘column pixel’ size is determined by the Instantaneous Field of View (IFOV) of the instrument of 1.8° * 0.045° corresponding to approx. 103 km * 2.6 km at the distance of the tangent to the horizon. The orbital motion of the spacecraft during the integration time determines	

	the column depth. Since the ASM stands still during a 'scanning period', the column pixel size has the size of the IFOV of approx. 103 km * 3.6 km (across track * height - incl. cycle step height error) also for different integration times.

State ID 28 limb01	Scientific measurement	Limb_short
	Description	
ILOS	In State 28 the earth atmosphere is observed centering the line of sight (LOS) towards the tangent to the earth horizon in the forward direction of the orbit (horizontal distance ca. 3290 km). This tangent point shall coincide with the subsatellite point of the corresponding nadir observation at this horizontal distance. To adjust the ILOS, SCIAMACHY uses for the measurement the azimuth mirror (ASM) and the nadir/elevation scan mirror (ESM). Instrument specific correction algorithms are applied to ASM accounting for the yaw steering of ENVISAT and for the Earth rotation during the time elapsed (approx. 450 s) between this measurement and the correlated nadir measurement. The basic position of the ESM, which shall be one elevation step below the horizon, is corrected for the varying horizontal height caused by the earth ellipsoid.	
Scan	The atmospheric volume at the horizon (subsatellite point of the corresponding nadir observation) is observed by directing the IFOV with the ASM. The scan motion of the ASM moves the ILOS in crosstrack direction. The basic position of the ASM is controlled by basic profile 2 yielding a position of -45°, corresponding to flight direction (-y) for the LOS. The motion of the ASM is controlled via relative scan profile 3, which is centered around the -y-direction. This profile produces for 1.5 seconds a relative motion (relative to -45° basic position) of constant angular velocity in positive direction and with the alternating inverted profile the ASM returns to the original angular position. The total angular motion of the ASM is approx. 8.5°, which is approx. 17° for the LOS. To account for the decline of the horizon a further correction is applied during this azimuth scan. Correction 3 maintains a constant distance above the horizon by adjusting the ESM position accordingly. Between the forward and reverse motion of the ASM, the ESM is controlled to move the ILOS a defined angular step towards zenith (+z), thus producing a meandering pattern for the ILOS path. The first measurement position for the ESM is one elevation step below the local earth horizon at point of observation. The elevation step is controlled by relative profile 1, which adjusts the vertical step of the ESM in limb01 to 0.0570° (LOS) corresponding to a height resolution of approx. 3 km30 elevation steps and azimuth scans are programmed reaching to an altitude of about 93 km. After the completion of the scans the ESM is moved by elevation basic profile 9 to an angle of about -11.255° (about 250 km above horizon) and the ASM to -45° (flight direction), which is the direction for the exo-atmospheric dark current measurement	
Swath	To adjust the earth coverage the azimuth swath is set to 960 km by setting the ASM scan speed to 11.2°/s (LOS). This swath is identical to the one of the corresponding nadir observation.	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	The exposure of the focal plane linear detector arrays (channels) is controlled by a subset of parameters setting the exposure times of the channels (6 plus 4 virtual) respectively the defined clusters and the corresponding co-adding factors. The exposure parameters for limb01 are set to produce optimal signals for the orbital position L1.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb01 low rate data they are listed in integration_time table 1.	
Pixel size ('column' pixel)	The atmospheric 'column pixel' size is determined by the scan motion in one layer (elevation step) of the atmosphere of the Instantaneous Field of View (IFOV) of the instrument of 1.8° * 0.045° during the integration time. The IFOV corresponds to 103 km * 2.6 km at the distance of the tangent to the horizon. The orbital motion of the spacecraft during the integration time determines the column depth. Since the integration time is diverse, the column pixel size varies between approx. 1060 km * 3.6 km (across track * height - incl. cycle step height error) and approx. 230 km * 2.6 km.	

State ID 29 limb02	Scientific measurement	Limb_short
ILOS	Description	
	see state ID 28	
Scan	see state ID 28; ASM: approx. 8.5° (mirror) corresponding to approx. 17° LOS; ESM: 34 steps	
Swath	see state ID 28; width 960 km	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	see state ID 28. The exposure parameters for limb02 are set to produce optimal signals for the orbital position -20° to -12°. The definitions are summarised in PET table L2.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb02 low rate data they are listed in integration_time table 2.	
Pixel size (‘column’ pixel)	see state ID 28 The column pixel size varies between approx. 1060 km * 3.6 km (across track * height - incl. cycle step height error) and approx. 230 km * 2.6 km.	

State ID 30 limb03	Scientific measurement	Limb_short
ILOS	Description	
	see state ID 28	
Scan	see state ID 28; ASM: approx. 8.5° (mirror) = approx. 17° LOS; ESM: 34 steps	
Swath	see state ID 28; width 960 km	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	see state ID 28. The exposure parameters for limb03 are set to produce optimal signals for the orbital position -12° to 9° and 146° to 157°. The definitions are summarised in PET table L3.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb03 low rate data they are listed in integration_time table 3.	
Pixel size (‘column’ pixel)	see state ID 28 The column pixel size varies between approx. 1060 km * 3.6 km (across track * height - incl. cycle step height error) and approx. 230 km * 2.6 km.	

State ID 31 limb04	Scientific measurement	Limb_short
ILOS	Description	
	see state ID 28	
Scan	see state ID 28; ASM: approx. 8.5° (mirror) = approx. 17° LOS; ESM: 34 steps	
Swath	see state ID 28; width 960 km	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	see state ID 28. The exposure parameters for limb04 are set to produce optimal signals for the orbital position 9° to 20° and 125 ° to 146°. The definitions are summarised in PET table L4.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb04 low rate data they are listed in integration_time table 4.	
Pixel size (‘column’ pixel)	see state ID 28 The column pixel size varies between approx. 1060 km * 3.6 km (across track * height - incl. cycle step height error) and approx. 230 km * 2.6 km.	

State ID 32 limb05	Scientific measurement	Limb_short

ILOS	Description
	see state ID 28
Scan	see state ID 28; ASM: approx. 8.5° (mirror) = approx. 17° LOS; ESM: 34 steps
Swath	see state ID 28; width 960 km
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.
Exposure control	see state ID 28. The exposure parameters for limb05 are set to produce optimal signals for the orbital position 20° to 125°. The definitions are summarised in PET table L5.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb05 low rate data they are listed in integration_time table 5.
Pixel size ('column' pixel)	see state ID 28 The column pixel size varies between approx. 1060 km * 3.6 km (across track * height - incl. cycle step height error) and approx. 230 km * 2.6 km.

State ID 33 limb06	Scientific measurement	Limb_short
ILOS	Description	
	see state ID 28	
Scan	see state ID 28; ASM: approx. 8.5° (mirror) = approx. 17° LOS; ESM: 34 steps	
Swath	see state ID 28; width 960 km	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	see state ID 28. The exposure parameters for limb06 are set to produce optimal signals for the orbital position > 157°. The definitions are summarised in PET table L6.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb06 low rate data they are listed in integration_time table 6.	
Pixel size ('column' pixel)	see state ID 28 The column pixel size varies between approx. 1060 km * 3.6 km (across track * height - incl. cycle step height error) and approx. 580 km * 2.6 km.	

State ID 34 limb11	Scientific measurement	Limb_short (No swath)
ILOS	Description	
	see state ID 28	
Scan	see state ID 28 No relative profile is applied to the ASM. The basic position of the ASM is also controlled by basic profile 2 yielding a position of -45°, corresponding to flight direction (-y) for the ILOS. This position is maintained throughout the state, i.e. no horizontal scan is performed.	
Swath	No swath is implemented. The ASM is standing still. The pixel dimension in azimuth is of a similar size (approx. 103 km) as the swath of the corresponding nadir observation (120 km).	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	see state ID 28 The exposure parameters for limb11 are set to produce optimal signals for the orbital position 9° to 25° and 125° to 146° . The definitions are summarised in PET table L4.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb11 low rate data they are listed in integration_time table 4.	
Pixel size ('column' pixel)	see state ID 28 The atmospheric 'column pixel' size is determined by the Instantaneous Field of View (IFOV) of the instrument of 1.8° * 0.045° corresponding to approx. 103 km * 2.6 km at the distance of the tangent to the horizon. The orbital motion of the spacecraft during the integration time determines the column depth. Since the ASM stands still during a 'scanning period', the column pixel size has the size of the IFOV of approx. 103 km * 3.6 km (across track * height - incl. cycle step	

	height error) also for different integration times.

State ID 35 limb08	Scientific measurement	Limb_short (No swath)
ILOS	Description	
	see state ID 34	
Scan	see state ID 34; no horizontal scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	see state ID 34 The exposure parameters for limb08 are set to produce optimal signals for the orbital position < -20° . The definitions are summarised in PET table L1.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb08 low rate data they are listed in integration_time table 1.	
Pixel size (‘column’ pixel)	see state ID 34 Since the ASM stands still during a ‘scanning period’, the column pixel size has the size of the IFOV of approx. 103 km * 3.6 km (across track * height - incl. cycle step height error) also for different integration times.	

State ID 36 limb09	Scientific measurement	Limb_short (No swath)
ILOS	Description	
	see state ID 34	
Scan	see state ID 34; no horizontal scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	see state ID 34 The exposure parameters for limb09 are set to produce optimal signals for the orbital position -20° to -12° . The definitions are summarised in PET table L2.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb09 low rate data they are listed in integration_time table 2.	
Pixel size (‘column’ pixel)	see state ID 34 Since the ASM stands still during a ‘scanning period’, the column pixel size has the size of the IFOV of approx. 103 km * 3.6 km (across track * height - incl. cycle step height error) also for different integration times.	

State ID 37 limb10	Scientific measurement	Limb_short (No swath)
ILOS	Description	
	see state ID 34	
Scan	see state ID ID 34; no horizontal scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	see state ID 34 The exposure parameters for limb10 are set to produce optimal signals for the orbital position -12° to 157° . The definitions are summarised in PET table L3.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb10 low rate data they are listed in integration_time table 3.	
Pixel size (‘column’ pixel)	see state ID 34 Since the ASM stands still during a ‘scanning period’, the column pixel size has the size of the	

	IFOV of approx. 103 km * 3.6 km (across track * height - incl. cycle step height error) also for different integration times.

State ID 38 lnad01	Monitoring	Nadir_pointing_left
ILOS	Description	
	In state ID 38 the earth atmosphere is observed pointing the line of sight (LOS) towards Nadir at the extreme left w.r.t. flight direction (approx. 30.5°). This measurement has the purpose to monitor the angle dependent degradation of the ESM mirror. To adjust the ILOS, SCIAMACHY uses for the measurement only the nadir/ elevation scan mirror (ESM). The extreme left position is obtained by using basic profile 1, yielding a position of -45,5° , and a superimposed relative profile 5 which adds -15.95° to the ESM mirror normal. The motion to reach this offset position lasts 4 sec. Once the extreme left position is acquired, the ESM stays in that configuration for the complete measurement phase.
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is 65 s. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	The exposure parameters for lnad01 are set to produce unsaturated signals throughout the orbit°. The definitions are summarised in PET table N7.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For lnad01 low rate data they are listed in integration_time table 27.	
Pixel size (Ground pixel)	The ground pixel size is determined by the motion of the Instantaneous Field of View (IFOV) of the instrument of 1.8°* 0.045° corresponding to approx. 25 km* 0.6 km on ground - over the atmosphere during one integration time. The motion of the IFOV is contrary to the 'scanning' nadir observations only caused by the orbital motion of the spacecraft and its pointing stability. Since the integration time is diverse, the ground pixel size varies between approx. 59 km* 1 km (along track* across track) and approx. 27 km* 0.6 km.	

State ID 39 dcchm	Calibration	Dark_Current_Calibration_Hot_Mode
ILOS	Description	
	In state ID 39 the dark signal is measured for exposure times < 31.25 msec in channels 6-8 for the purpose of correcting WLS measurements. In phase 1 the WLS-position of the ESM (10.523°) is acquired and in measurement phase 2 the ESM points to the WLS (basic scan profile 12).	
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is 12 s. For the total duration of the measurement phase the WLS is off thus yielding only a dark current signal with state settings identical to those of the WLS state (ID 61).	
Exposure control	The exposure parameters for dcchm are summarised in PET table WLS.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For dcchm low rate data they are listed in integration_time table 55.	
Pixel size	n.a.	

State ID 40 limb13	Scientific measurement	Limb_short (No swath)
ILOS	Description	
	see state ID 34	
Scan	see state ID 34; no horizontal scan	

Swath	n.a.
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.
Exposure control	see state ID 34 The exposure parameters for limb13 are set to produce optimal signals for the orbital position > 157° . The definitions are summarised in PET table L6.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb13 low rate data they are listed in integration_time table 6.
Pixel size (‘column’ pixel)	see state ID 34 Since the ASM stands still during a ‘scanning period’, the column pixel size has the size of the IFOV of approx. 103 km * 3.6 km (across track * height - incl. cycle step height error) also for different integration times.

State ID 41 limb12	Scientific measurement	Limb (No swath)
ILOS	Description	
	see state ID 34	
Scan	see state ID 34; no horizontal scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is 52.31 s, covering a total of 30 scans and the attached dark current measurement. A stretch of 3.12° of the orbit is passed during this time.	
Exposure control	see state ID 34 The exposure parameters for limb10 are set to produce optimal signals for the orbital position 20° to 125° . The definitions are summarised in PET table L5.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For limb12 low rate data they are listed in integration_time table 5.	
Pixel size (‘column’ pixel)	see state ID 34 Since the ASM stands still during a ‘scanning period’, the column pixel size has the size of the IFOV of approx. 103 km * 3.6 km (across track * height - incl. cycle step height error) also for different integration times.	

State ID 42 nad26	Scientific measurement	Nadir_pointing
ILOS	Description	
	see state ID 23	
Scan	see state ID 23; no scan	
Swath	see state ID 23; none	
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 consecutive ‘still’ sequences. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	see state ID 23 The exposure parameters for nad26 are set to produce optimal signals for the orbital position 16° to 26° and 154° to 164°. The definitions are summarised in PET table N4.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad26 low rate data they are listed in integration_time table 24.	
Pixel size (Ground pixel)	see state ID 23 The ground pixel size varies between approx. 32 km * 1 km (along track * across track) and approx. 26 km * 0.6 km.	

State ID 43 nad27	Scientific measurement	Nadir_pointing
ILOS	Description	
	see state ID 23	
Scan	see state ID 23; no scan	

Swath	see state ID 23; none
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 consecutive 'still' sequences. A stretch of 3.88° of the orbit is passed during this time.
Exposure control	see state ID 23 The exposure parameters for nad27 are set to produce optimal signals for the orbital position 26° to 36° and 144° to 154°. The definitions are summarised in PET table N5.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad27 low rate data they are listed in integration_time table 25.
Pixel size (Ground pixel)	see state ID 23 The ground pixel size varies between approx. 32 km * 1 km (along track * across track) and approx. 26 km * 0.6 km.

State ID 44 nad28	Scientific measurement	Nadir_pointing
ILOS	Description	
	see state ID 23	
Scan	see state ID 23; no scan	
Swath	see state ID 23; none	
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 consecutive 'still' sequences. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	see state ID 23 The exposure parameters for nad28 are set to produce optimal signals for the orbital position 36° to 70° and 110° to 144°. The definitions are summarised in PET table N6.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad28 low rate data they are listed in integration_time table 26.	
Pixel size (Ground pixel)	see state ID 23 The ground pixel size varies between approx. 32 km * 1 km (along track * across track) and approx. 27 km * 0.6 km.	

State ID 45 nad29	Scientific measurement	Nadir_pointing
ILOS	Description	
	see state ID 23	
Scan	see state ID 23; no scan	
Swath	see state ID 23; none	
Measurement duration	The duration of the measurement is set to 65 s, which results in 13 consecutive 'still' sequences. A stretch of 3.88° of the orbit is passed during this time.	
Exposure control	see state ID 23 The exposure parameters for nad29 are set to produce optimal signals for the orbital position 70° to 110°. The definitions are summarised in PET table N7.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For nad29 low rate data they are listed in integration_time table 27.	
Pixel size (Ground pixel)	see state ID 23 The ground pixel size varies between approx. 59 km * 1 km (along track * across track) and approx. 27 km * 0.6 km.	

State ID 46 dcc01	Calibration	Dark_Current_Calibration
ILOS	Description	
	see state ID 08 ILOS pointing in flight direction to 250 km altitude above horizon.	
Scan	no scan	
Swath	n.a.	

Measurement duration	The duration of the measurement is set to 10 s.
Exposure control	The exposure parameters for dcc01 are summarized in PET table Dark_Current_1.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For dcc01 low rate data they are listed in integration_time table 45.
Pixel size	n.a.

State ID 47 sos02	Scientific measurement Calibration	SO&C_Scanning/ Pointing
	Description	
ILOS	In state ID 47 the ILOS is directed towards the Sun during sunrise resp. the Sun whilst ascending. To adjust the ILOS, SCIAMACHY uses for the measurement the nadir/elevation scan mirror (ESM) and the azimuth scan mirror (ASM). In the start phase the position of the ASM is calculated based on the position of the Sun defined in the *START TIMELINE MCMD* (correction 8 of basic scan profile 3 and relative profile 5). The position of the ESM is calculated (pointing to an altitude 17.2 km above the calculated point of sunrise). Both mirrors acquire their calculated position. In phase 2 ASM tracks the propagated Sun position, whereas ESM starts to scan ±0.33° around 17.2 km. This phase is determined to balance the effects of the atmospheric refraction on shape and motion of the Sun. At the end of this phase the centre of the Sun should coarsely coincide with the ILOS. In Phase 3 the Sun follower (SFS) takes over, acquires and tracks the Sun with the ASM, the ESM continues scanning while now following the rising target with the predicted velocity. In phase 4 the ESM maintains this scan motion. The ASM points to the Sun (correction 6). In phase 5 the Sun has passed the upper edge of the atmosphere. The ESM has stopped scanning and acquires also the Sun (correction 4 of basic profile 3 and relative profile 5). In the final phase (6) both mirrors track the Sun (correction 6 resp. correction 4).	
Scan	A scan of ±0.33° of the ILOS in elevation direction is implemented during phases 2-4, when ILOS is centered to 17.2 km or following the rising Sun. After completion of one scan the scanning direction is inverted for the subsequent scan. Scan duration is 2s each direction. Totally 16 scans are performed in phase 2, 2 scans in phase 3 and 14 in phase 4.	
Swath	n.a.	
Measurement duration	The initial phase of pointing to an altitude of 17.2 km above the location of sunrise has a duration of 32 s. The sun acquisition and pointing phase takes 4 s and the consecutive tracking/ scanning of the sun another 28 s. State ID 47 is concluded with a measurement of 2 s pointing to the Sun above the atmosphere. Total duration of sos02 is 66 s.	
Exposure control	The irradiation of the focal plane by the Sun is reduced by two mechanisms: An aperture stop (primitive cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (primitive cmd *ND FILTER IN*). The exposure parameters for sos02 are summarised in PET table Sun.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For sos02 high rate data they are listed in integration_time table 32. A resolution of approx. 0.02° corresponding to 1.2 km at horizontal distance resp. 0.165° (10 km) is achieved.	
Pixel size	n.a.	

State ID 48 lwnd01	Monitoring	NDF_Monitoring, ND Filter IN
	Description	
ILOS	For the purpose of monitoring the ND filter, the WLS is observed via the ESM under a 'non-optimal' angle of 10.673° with the ND filter being 'IN'. In phase 1 the position of the ESM is acquired and in measurement phase 2 the ESM points to the WLS under this angle (basic scan profile 13).	
Scan	no scan	

Swath	n.a.
Measurement duration	The duration of the measurement is set to 12 s.
Exposure control	The exposure parameters for lwnd01 are summarised in PET table NDF_Monitoring. Note that channel 6 uses the Hot Mode (see Hot Mode table) with a PET of 14.4 ms.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For lwnd01 low rate data they are listed in integration_time table 48. The integration time given for channel 6 is the effective integration time which results from the Hot Mode. Readouts of channel 6 are obtained every 4 sec.
Pixel size	n.a.

State ID 49 sos01	Scientific measurement Calibration	SO&C_Scanning_Long_Duration
ILOS	Description see state ID 47. In state ID 49 the ILOS is controlled in the first 3 phases with the same strategy as in ID 47. Phase 4 has the same features as in ID 47 with ASM tracking the Sun and ESM following the track of the Sun with ESM basic profile 3 corrected with correction 8 whilst it scans. This phase continues above the atmosphere until the Sun has nearly reached the upper edge of the FOV of the limb baffle.	
Scan	A scan of ±0.33° of the ILOS in elevation direction is implemented during phases 1-4, when ILOS is centred to 17.2 km or following the rising Sun. After completion of a scan the scanning direction is inverted for the subsequent scan. Scan duration is 2s each direction. Totally 16 scans are performed in phase 2, 2 scans in phase 3 and 47 in phase 4.	
Swath	n.a.	
Measurement duration	The initial phase of pointing to an altitude of 17.2 km above the location of sunrise has a duration of 32 s. The Sun acquisition and pointing phase takes 4 s and the consecutive tracking/scanning of the sun another 94 s. Total duration of sos01 is 130 s.	
Exposure control	The irradiation of the focal plane by the Sun is reduced by two mechanisms: An aperture stop (prim.cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (prim.cmd *ND FILTER IN*). The exposure parameters for sos01 are summarised in PET table Sun.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For sos02 high rate data they are listed in integration_time table 32. A resolution of approx. 0.02° corresponding to 1.2 km at horizontal distance resp. 0.165° (10 km) is achieved.	
Pixel size	n.a.	

State ID 50 scs01	Calibration	SO&C_Scanning (fast_sweep)
ILOS	Description In state ID 50 the Sun is used as a calibration source i.e. the solar position shall be well above the atmosphere. ASM and ESM are used to control the ILOS. Both mirrors shall follow the Sun track by means of basic profile 3. Since this profile is constructed to cover sunrise around an altitude of 17.2 km (see ID 47) it must be corrected for higher Sun elevation. Correction 8 uses the angular parameters of the Sun as they are contained in the MCMD *START TIMELINE* to calculate the correction terms for the two mirrors. These parameters are valid for the start of the measurement phase. Updates are performed with each relative profile. In phase 1 the positions for both mirrors are calculated (correction 8) and acquired. In phase 2 both mirrors are following the corrected, propagated Sun trajectory and the ESM is in addition performing a scan (fast_sweep - relative profile 6) over the Sun.	
Scan	When the centre of the ILOS is following the rising Sun, scans over the Sun in elevation direction of approx. 2.72° (LOS) are performed. They are controlled by relative profile 6 (fast sweep), which produces a scan of 0.125 s duration in one direction and then holds this position for another	

	0.125 s. The scan speed (LOS) is 21.7°/s in the not accelerated segments of profile 6. The direction of the scan is inverted after each scan. In total 12 scans over the Sun of the type fast_sweep are performed during the measurement phase 2.
Swath	n.a.
Measurement duration	Total duration of scs01 is 3 s.
Exposure control	The irradiation of the focal plane by the Sun is reduced by two mechanisms: An aperture stop (prim.cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (prim.cmd *ND FILTER IN*). The exposure parameters for scs01 are summarised in PET table Sun_Fast_Sweep. They are all set to 0.125 s.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For scs01 high rate data they are listed in integration_time table 36.
Pixel size	n.a.

State ID 51 sop01	Scientific measurement Calibration	SO&C_Pointing
	Description	
ILOS	In state ID 51 the ILOS is directed towards the Sun during sunrise resp. the Sun whilst ascending. To adjust the ILOS, SCIAMACHY uses for the measurement the nadir/elevation scan mirror (ESM) and the azimuth scan mirror (ASM). State ID 51 follows a similar strategy in the lower atmosphere as ID 47 and ID 49. Phase 1 - start phase - with calculation/acquisition of sunrise position for ASM and 17.2 km height for ESM, phase 2 - ESM scanning at 17.2 km and ASM following Sun track- and phase 3 - Sun acquisition by ASM via SFS and ESM scanning - are identical to ID 47/49. In phase 4 ASM is sun pointing via SFS and ESM has stopped scanning and acquires the sun (correction 4). In Phase 5 ESM is now also pointing to the Sun (correction 6) as the ASM and both mirrors track the Sun centre till above the atmosphere.	
Scan	A scan of ±0.33° of the ILOS in elevation direction is implemented during phases 2 and 3, when theILOS is centred to 17.2 km scanning the rising Sun. Scan duration is 2s. After completion of a scan the scanning direction is inverted for the subsequent scan. Totally 24 scans over the Sun are performed during the phases 2 and 3.	
Swath	n.a.	
Measurement duration	The initial phase of pointing to an altitude of 17.2 km above the location of sunrise has a duration of 36 s. The Sun acquisition and pointing phase - only via ASM - takes 12 s and the consecutive tracking/ pointing to the Sun - now also ESM control via SFS - another 16 s. The final phase 5 - pointing to the Sun - provides several seconds of measurement time above the atmosphere. Total duration of sop01 is 64 s.	
Exposure control	The irradiation of the focal plane by the Sun is reduced by two mechanisms: An aperture stop (prim.cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (prim.cmd *ND FILTER IN*). The exposure parameters for sop01 are summarised in PET table Sun.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For sop01 high rate data they are listed in integration_time table 32.	
Pixel size	n.a.	

State ID 52 escd01	Calibration	Sun _ESM_Diffuser_Calibration ND-Filter OUT
	Description	
ILOS		

	In state ID 52 no image of the Sun is projected onto the entrance slit of the spectrometer. For calibration purposes the ESM diffuser is reflecting the sunlight into the telescope. This diffuser is a layer deposited on the rear side of the ESM. The angle between the SCIAMACHY optical axis and the diffuser normal shall amount to 15° to prevent vignetting from the scanner housing while the incident solar light has an angle of 'reflection' of 22.5° into the telescope. In phase 1 the position of the ESM at 165° (backside of ESM under 15° inclination) and the position of the ASM are calculated (basic profile 6 with azimuth correction 8 and H/W-constellation 4) and acquired. The ESM stays in this position fixed for the duration of the state. In the measurement phase 2 ASM follows the motion of the Sun with the corrected rate from the *START TIMELINE MCMD*. The timing of the state has to be planned in such a way, that the ascending Sun meets the requirement of 22.5° incidence angle at the start of the measurement phase.
Scan	no scan
Swath	n.a.
Measurement duration	The measurement phase has a duration of 30s.
Exposure control	escd01 is performed without additional reduction of the sunlight. The ND-filter is not used in escd 01 (primitive cmd *ND FILTER OUT*). The exposure parameters for escd01 are summarised in PET table Sun_ESM_diffuser.
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For escd01 high rate data they are listed in integration_time table 40.
Pixel size	n.a.

State ID 53 sscp02	Calibration	Sub_Solar_Calibration_Pointing
ILOS	Description In state ID 53 the Sun is observed at high elevation through the sub_solar port (primitive cmd *NADIR CAL WINDOW OPEN*). In this configuration only the ESM can be used, therefore no capability exists to adjust the LOS in azimuth direction towards the Sun. To provide the required angular configuration the *START TIMELINE MCMD* for this state must be timed to fullfil the fixed angular correlation of the Sun position as related to the fixed IFOV in azimuth of SCIAMACHY in the sub_solar_window, which has a FOV of 1.72° (azimuth)* 14.78° (elevation) In azimuth the IFOV is further reduced by the small aperture used with solar observations (0.72°). The centerline of the aperture coincides with the centerline of the sub_solar_window. In phase 1 the position of the ESM is calculated and acquired within the sub_solar_window applying correction 8 to basic profile 4 (sub_solar) for the actual position of the Sun contained in *START TIMELINE MCMD*. In phase 2 the ESM waits in this position for the Sun to come fully into the aperture. In phase 3 the ESM acquires the Sun with the SFS (correction 4) centering the slit (0.045°) on the Sun, during phase 4 the solar disk continues moving in azimuth direction through the aperture caused by the orbital motion. The ESM follows the solar track with correction 9, where the calculated Sun position is propagated with corrections derived from the SFS, whilst the Sun moves out of the aperture.	
Scan	no scan	
Swath	n.a.	
Measurement duration	The initial phase of pointing to the partially obscured sun has a duration of 7 s. The Sun acquisition phase take 6 s and the consecutive tracking/pointing to the vanishing sun another 9 s. Total duration of sscp02 is 22 s.	
Exposure control	The irradiation of the focal plane detectors (channels) by the Sun is reduced by two mechanisms: an aperture stop (primitive cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (primitive cmd *ND FILTER IN*). The exposure parameters for sscp02 are summarised in PET table Sun.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For sscp02 low rate data they are listed in integration_time table 31.	
Pixel size	n.a.	

State ID 54 mos01	Calibration	Moon_Scanning
ILOS	Description In state ID 54 the moon is used as a calibration source i.e. the lunar position shall be well above the atmosphere. ASM and ESM are used to control the ILOS. Both mirrors shall follow the track of the moon. In phase 1 the predicted moon position and the resulting angular positions of both mirrors are calculated and the positions acquired. Correction 5 uses the angular data of the moon as they are contained in the MCMD *START TIMELINE* to calculate the correction terms for the two mirrors. These terms are valid for the start of phase 2. Updates are performed with each relative profile. In phase 2 both mirrors are acquiring the centre of the moon using the SFS with *APERTURE STOP LARGE* (phase type 1 and correction 5 - readout B). In phase 3 the ASM follows the moon in pointing mode stirred by the SFS loop and the ESM follows the track of the moon using the updated correction terms derived from correction 9 (improved tracking using AOCS), whilst it performs nominal scans over the moon.	
Scan	A scan of ±0.33° of the ILOS in elevation direction is implemented during phase 3, when ILOS is centred to the moon and following his track. Scan duration is 2 s each direction. The scan direction is inverted after each scan. 5 nominal scans over the moon are performed.	
Swath	n.a.	
Measurement duration	The acquisition/pointing phase 2 of mos01 takes 2 s. The scanning phase 3 takes 10 s. Total duration of mos01 is 12 s.	
Exposure control	The exposure parameters for mos01 are summarised in PET table Moon.	
Integration time	For mos01 low rate data they are listed in integration_time table 47.	
Pixel size	n.a.	

State ID 55 mop03	Scientific measurement Calibration	MO&C_Pointing_Troposphere
ILOS	Description In state ID 55 the moon is used to measure the atmosphere in occultation. Contrary to ID 56 - MO&C_Pointing - the measurement starts, when the moon crosses the height of about 5 km above the horizon. This requires exact tuning of the start of the timeline, since in pointing mode the dimensions of the spectrometer slit determine the observed area. In phase 1 the predicted moon position and the resulting angular position of ASM and ESM are calculated (correction 5 of basic profile 3 resp. 14) and acquired. The timeline including mop03 starts sufficiently in time to allow the SFS to acquire the moon already well within the troposhere at an altitude of about 5 km. In phase 2 both mirrors are acquiring the centre of the moon using the SFS (correction 5 - readout B). With successful acquisition, the ILOS in phase 3 follows the moon in pointing mode for 14 s. At the end of this phase the moon has reached an altitude of 17.2 km. In phase 4 the pointing to the lunar center continues up to an altitude close to the upper edge of the TCFOV of the limb baffle. In case acquisition was not successful in the lower atmosphere, the moon is supposed to be tracked from an altitude of 17.2 km (phase 4). **Note: the exeution of this state during SODAP proved, that this measurement scheme is not feasible due to the atmospheric observation conditions at low altitudes. The execution of this state is presently suspended.**	
Scan	no scan	
Swath	n.a.	
Measurement duration	The acquisition/pointing phase 2 of mop03 takes 2 s. The pointing phase (phase 3) in the troposphere and lower stratosphere takes 14s and measurements above 17.2 km last for 126 s. Total duration is 142 s.	
Exposure control	The exposure parameters for mems01 are summarised in PET table Moon.	
Integration time	For mop03 low rate data they are listed in integration_time table 47.	

Pixel size	n.a.

State ID 56 mop01	Scientific measurement Calibration	MO&C_Pointing
ILOS	Description In state ID 56 the moon is used to measure the atmosphere in occultation. Contrary to ID 51 - SO&C_Pointing - the measurement starts, when the moon crosses the height of 17.2 km above the horizon. This requires exact tuning of the start of the timeline, since in pointing mode the dimensions of the spectrometer slit determine the observed area. In phase 1 the predicted moon position and the resulting angular position of ASM and ESM are calculated (correction 8 of basic profile 3 resp. 14) and acquired. The moon should have a height of 17.2 km above the horizon. In phase 2 both mirrors are tracking the centre of the moon using AOCS information. In phase 3 the ASM and ESM acquire the moon with the SFS (correction 5 - readout B). This occurs at an altitude of about 70 km. Phase 4 follows the moon up to the top of the atmosphere, now with both the pointing ASM and the ESM being controlled via the SFS (correction 7).	
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the initial pointing phase (phase 2) without SFS control amounts to 16 s. The acquisition/pointing phase 3 of mop01 takes 2 s. The tracking phase 4 takes 22 s. Total duration of mop01 is 40 s.	
Exposure control	The exposure parameters for mop01 are summarised in PET table Moon.	
Integration time	For mop01 low rate data they are listed in integration_time table 47.	
Pixel size	n.a.	

State ID 57 mop02	Scientific measurement Calibration	Moon_Pointing_Long-Duration
ILOS	Description In state ID 57 the moon is used to measure the atmosphere in occultation and to get, in addition, calibration measurements above the atmosphere. The strategy is a copy of state ID 56 but the moon pointing phase 4 is extended until the moon nearly reaches the upper edge of the TCFOV of the limb baffle.	
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the initial pointing phase (phase 2) without SFS control amounts to 16 s. The acquisition/pointing phase 3 of mop01 takes 2 s. The tracking phase 4 takes 110 s. Total duration of mop02 is 128 s.	
Exposure control	The exposure parameters for mop02 are summarised in PET table Moon.	
Integration time	For mop02 low rate data they are listed in integration_time table 47.	
Pixel size	n.a.	

State ID 58 sscp01	Calibration	Sub_Solar_Calibration_Pointing/ Scanning
ILOS	Description	

	In state ID 58 the Sun is observed at high elevation similar to state ID 53. In phase 1 the position of the ESM in the sub_solar_window is calculated with basic profile 4 applying correction 8 for the actual position of the Sun contained in *START TIMELINE MCMD* and acquired. In phase 2 the ESM follows the propagated track of the Sun waiting for her to come fully into the aperture due to the orbital motion. In phase 3 the ESM acquires the Sun with the SFS (correction 4) centring the slit (0.045°) on the Sun and during this phase the solar disk moves in azimuth direction through the aperture caused by the orbital motion while being tracked by the ESM via SFS. In phase 4 the ESM performs 2 nominal scans over the Sun (relative profile 4) while the centre of the scan is maintained on the middle of the Sun using correction 9, where the calculated Sun position is propagated with the corrections derived from the SFS. In phase 5 the Sun moves out of the aperture being tracked with the now standing still ESM (correction 9).
Scan	A scan of ±0.33° of the ILOS in elevation direction centred on the Sun is implemented during phase 4. Scan duration is 2 s. Two nominal scans are performed.
Swath	n.a.
Measurement duration	The initial phase of pointing to the partially obscured sun has a duration of 7 s. The Sun acquisition and pointing phase takes 2 s, the scan phase 5 takes 4 s and the consecutive tracking/pointing to the vanishing Sun another 9 s. Total duration of sscp01 is 22 s.
Exposure control	The irradiation of the focal plane detectors (channels) by the Sun is reduced by two mechanisms: An aperture stop (primitive cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (primitive cmd *ND FILTER IN*). The exposure parameters for sscp01 are summarised in PET table Sun.
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For sscp01 low rate data they are listed in integration_time table 31.
Pixel size	n.a.

State ID 59 lsc01	Calibration	Spectral_Lamp_Calibration
ILOS	Description	
	In state ID 59 SCIAMACHY´s spectral lamp is used as a spectral line source for wavelength calibration. The ESM is used to project the spectral light into the telescope. In phase 1 the SLS position of the ESM (9.768°) is acquired and in measurement phase 2 the ESM points to the SLS (basic scan profile 10). In this state a longer duration for cooldown is required.	
Scan	no scan	
Swath	n.a.	
Measurement duration	Measurement duration of lsc01 is 12 s.	
Exposure control	The exposure parameters for lsc01 are summarised in PET table SLS.	
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For lsc01 low rate data they are listed in integration_time table 53.	
Pixel size	n.a.	

State ID 60 sscs01	Calibration	Sub_Solar_Calibration_Scanning (fast_sweep)
ILOS	Description	
	In state ID 60 the Sun is observed at high elevation similar to state ID 53. In phase 1 the ESM is positioned with basic profile 4 in the sub_solar_window applying correction 8 for the actual position of the Sun contained in *START TIMELINE MCMD.* In phase 2 the basic position of the ESM follows the propagated track of the Sun centre (correction 8) and performs additionally fast_sweeps over the Sun, which moves through the aperture in azimuth direction caused by the orbital motion.	
Scan	When the centre of the ILOS is following in elevation direction the Sun, scans over the Sun in elevation direction of ca. 2.72° are performed. They are controlled by relative profile 6 (fast_sweep), which produces a scan of 0.125 s duration in one direction and then holds this	

	proition for amother 0.125s. The scan speed (LOS) is 21.7°/s in the not accelerated segments of profile 6. The direction of the scan is inverted after each scan. Totally 88 scans over the Sun of the type fast_sweep are performed during the measurement phase.
Swath	n.a.
Measurement duration	The measurement phase (scanning fast_sweep of the part time obscured Sun) has a duration of 22 s.
Exposure control	The irradiation of the focal plane detectors (channels) by the sun is reduced by two mechanisms: An aperture stop (primitive cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (primitive cmd *ND FILTER IN*). The exposure parameters for sscs01 are summarised in PET table Sun_Fast_Sweep. The effective exposure of all pixels to the Sun is 31.25 msec, since due to the fast_ sweep motion of the ILOS the IFOV scans over the complete Sun within this time.
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For sscs01 low rate data they are listed in integration_time table 35.
Pixel size	n.a.

State ID 61 lwc01	Calibration	White_Lamp_Calibration
ILOS	Description In state ID 61 SCIAMACHY´s white lamp is used as a light source for radiometric calibration. The ESM is used to project the white light into the telescope. In phase 1 the WLS position of the ESM (10.523°) is acquired and in measurement phase 2 the ESM points to the WLS (basic scan profile 12). In this state a longer duration for cooldown is required.	
Scan	no scan	
Swath	n.a.	
Measurement duration	Measurement duration of lwc01 is 12 s.	
Exposure control	The exposure parameters for lwc01 are summarised in PET table WLS.	
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For lwc01 low rate data they are listed in integration_time table 55.	
Pixel size	n.a.	

State ID 62 escd02	Calibration	Sun _Diffuser_Calibration ND-Filter IN
ILOS	Description see state ID 52 The ESM diffuser position is at 165° (backside of ESM under 15° inclination), the ASM is following the motion of the Sun. The timing of the state has to be planned in such a way, that the ascending Sun meets the requirement of 22.5° incidence angle at the start of the measurement phase. .	
Scan	no scan	
Swath	n.a.	
Measurement duration	The measurement phase has a duration of 30 s.	
Exposure control	escd02 is performed with additional reduction of the sun light compared to ID 52. The ND-filter is used in escd02 (primitive cmd *ND FILTER IN*). The exposure parameters for escd02 are summarised in PET table Sun_ESM_diffuser.	
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For escd02 high rate data they are listed in integration_time table 40.	
Pixel size	n.a.	

State ID 63 dcc02	Calibration	Dark-Current_Calibration
ILOS	Description	
	see state ID 08 ILOS pointing in flight direction to 250 km altitude above horizon	
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 30 s.	
Exposure control	The exposure parameters for dcc02 are summarized in PET table Dark_Current_2.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For dcc02 low rate data they are listed in integration_time table 49.	
Pixel size	n.a.	

State ID 64 nmep01	Calibration	Sun_Nadir/Elevation_Mirror Calibration_Pointing
ILOS	Description	
	In state ID 64 the Sun is used as calibration source. ID 64 uses the extra_mirror for a second reflection of the ESM (H/W-constellation 5). The correction algorithms used take account of the doubled mirror deflection. Basic profile 8 used for ESM and ASM also accounts for the extra_mirror. In phase 1 the calculation of the predicted Sun position and the resulting angular positions by both mirrors are performed. Correction 4 uses the angular data of the Sun as they are contained in the MCMD *START TIMELINE* to calculate the correction terms for the twomirrors. These terms are valid for the start of phase 2. The positions are acquired by ASM and ESM. In phase 2 both mirrors are acquiring the centre of the Sun using the SFS (phase type 1 and correction 4 - readout A). In phase 3 the ILOS is following the Sun in pointing mode stirred by the SFS loop.	
Scan	no scan	
Swath	n.a.	
Measurement duration	The pointing phases 2 plus 3 of nmep01 take 4 s.	
Exposure control	The irradiation of the focal plane by the sun is reduced by two mechanisms: An aperture stop (primitive cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (primitive cmd *ND FILTER IN*). The exposure parameters for nmep01 are summarised in PET table Sun.	
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For nmep01 high rate data they are listed in integration_time table 32.	
Pixel size	n.a.	

State ID 65 adc01	Calibration	ADC_Calibration & Scanner Maintenance
ILOS	Description	
	In State ID 65 the Analogue Digital Converter is calibrated. At the same time the maintenance of the scanners is performed, which require one full revolution of each scanner per orbit to ensure full performance. To synchronise source sequence counter measurement data packets are produced. This is no scientific measurement state but a maintenance state, which is executed each orbit in nominal operations conditions.	
Scan	Scanner motions (ASM & ESM) for one full revolution within the state duration are implemented.	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 20 s.	
Exposure control	The exposure parameters for adc01 are summarized in PET table ADC_Cal.	

Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For adc01 low rate data they are listed in integration_time table 43.
Pixel size	n.a.

State ID 66 nmes02	Calibration	Sun_Nadir/Elevation_Mirror Calibration_Scanning
ILOS	Description	
	In state ID 66 the Sun is used as calibration source. It uses the same constellation as ID 64, but scans the Sun via the double reflection from the ESM by means of the extra_mirror. In phase 1 the calculation of the predicted Sun position and the resulting angular positions of both mirrors are performed. Correction 4 uses the angular data of the Sun as they are contained in the MCMD *START TIMELINE* to calculate the correction terms for the two mirrors. These terms are valid for the start of phase 2. The positions are acquired by the ASM and ESM. In phase 2 both mirrors are acquiring the centre of the Sun using the SFS (phase type 1 and correction 4 - readout A). In phase 3 the ASM is following the Sun in pointing mode stirred by the SFS loop and the ESM performs nominal scans over the Sun following her track using correction 9 (SFS-corrected propagated Sun positions).	
Scan	In phase 3 the nominal_scan of ±0.33° of the ILOS in elevation direction centred on the Sun is implemented. Because of the double reflection off the ESM, its angular motion is halved as compared to the standard nominal_scan. Scan duration is 2 s. The scanning direction is inverted for each subsequent scan. In total 5 scans are performed.	
Swath	n.a.	
Measurement duration	The pointing phase 2 of nmes02 takes 1 s and the scanning phase 3 takes 10 s. Total duration is 11 s.	
Exposure control	The irradiation of the focal plane by the sun is reduced by two mechanisms: An aperture stop (prim.cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (primitive cmd *ND FILTER IN*). The exposure parameters for nmes02 are summarised in PET table Sun.	
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For nmes02 high rate data they are listed in integration_time table 32.	
Pixel size	n.a.	

State ID 67 dcc03	Calibration	Dark-Current_Calibration
ILOS	Description	
	see state ID 08 ILOS pointing in flight direction to 250 km altitude above horizon.	
Scan	no scan	
Swath	n.a.	
Measurement duration	The duration of the measurement is set to 80 s.	
Exposure control	The exposure parameters for dcc03 are summarized in PET table Dark_Current_3.	
Integration time	The individual integration times are set by the exposure control (exposure time* co-adding factor). For dcc03 low rate data they are listed in integration_time table 50.	
Pixel size	n.a.	

State ID 68 nmes01	Calibration	Sun_Nadir/Elevation_Mirror Calibration_Scanning (fast_sweep)
ILOS	Description	

	In state ID 68 the Sun is used as calibration source. It uses the same constellation as ID 64 and ID 66, but the scan of the Sun via the extra_mirror is of the type fast_sweep. In phase 1 the calculation of the predicted Sun position and the resulting angular positions of both mirrors are performed. Correction 8 uses the angular data of the Sun as they are contained in the MCMD *START TIMELINE* to calculate the correction terms for the two mirrors. These terms are valid for the start of phase 2. The positions are acquired by the ASM and ESM. In phase 2 the ASM follows the propagated track of the Sun. The same does the ESM and performs additionally the fast_sweeps over the solar disk whilst it follows the Sun centre.
Scan	In phase 2 scans of the type fast_sweep over the sun of ca. 2.72° are performed. They are controlled by relative profile 6 (fast_sweep), which produces a scan of 0.125 s duration in one direction and then holds this position for another 0.125s. The scan speed (LOS) is 21.7°/s in the not accelerated segments of profile 6. The direction of the scan is inverted after each scan. Because of the double reflection off the ESM its angular motion of the mirror is halved as compared to the standard fast_sweep. In total 12 scans are performed.
Swath	n.a.
Measurement duration	The scanning phase 2 takes 3 s.
Exposure control	The irradiation of the focal plate by the sun is reduced by two mechanisms: An aperture stop (primitive cmd *APERTURE STOP SMALL*) reduces the collecting area of the telescope and a neutral density filter reduces the light flux (primitive cmd *ND FILTER IN*). The exposure parameters for nmes01 are summarised in PET table Sun_Fast_Sweep. The effective exposure of all pixels to the Sun is 31.25 msec, since due to the fast_ sweep motion of the ILOS the IFOV scans over the complete Sun within this time.
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For nmes01 high rate data they are listed in integration_time table 36.
Pixel size	n.a.

State ID 69 lsd01	Calibration	Spectral_Lamp_Diffuser_Monitoring
ILOS	Description	
	In state ID 69 SCIAMACHY´s spectral lamp is used as a spectral line source to calibrate the spectral characteristics of SCIAMACHY´s ESM diffuser. The diffuser is deposited on the backside of the ESM. In phase 1 the position of the ESM (190.2°) is acquired and in measurement phase 2 the ESM diffuser normal points to a direction between SLS and WLS (basic scan profile 11). In this state a longer duration for cooldown is required.	
Scan	no scan	
Swath	n.a.	
Measurement duration	Measurement duration of lsd01 is 80 s.	
Exposure control	The exposure parameters for lsd01 are summarised in PET table SLS_Diffuser.	
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For lsd01 low rate data they are listed in integration_time table 57..	
Pixel size	n.a.	

State ID 70 lwd01	Calibration	White_Lamp_Diffuser_Monitoring
ILOS	Description	
	In state ID 70 SCIAMACHY ´s white lamp is used as a light source to calibrate the radiometric characteristics of SCIAMACHY ´s ESM diffuser. The diffuser is deposited on the backside of the ESM. In phase 1 the position of the ESM (190.2°) is acquired and in measurement phase 2 the ESM diffuser normal points to a direction between SLS and WLS (basic scan profile 11). In this state a longer duration for cooldown is required.	

Scan	no scan
Swath	n.a.
Measurement duration	Measurement duration of lwd01 is 80 s.
Exposure control	The exposure parameters for lwd01 are summarised in PET table WLS_Diffuser.
Integration time	The individual integration times are set by the exposure control (exposure time* coadding factor). For lwd01 low rate data they are listed in integration_time table 59.
Pixel size	n.a.