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HERSCHEL / PLANCK

Generic Data Collection

H-P-1-ASP-TN-0543

Product Code : 460000

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ENREGISTREMENT DES EVOLUTIONS / *CHANGE RECORDS*

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS *§ : CHANGE RECORD*	REDACTEUR *AUTHOR*
1.0	8/06/2004	Generic Data Definition inside HPSDB	S. Dos Santos
1.1	21/10/2004	Add note for explanation of TC packet header GX0001000 Chapter 1 : Addition of a note for PSICD template relevant to SID1 and SID2 position and length for each (type, subtype) couple Addition of a paragraph relevant to S2K identifiers for curves, command verification stage and parameter range set. Chapter 3.1.2 Modification of subtitle Chapter 3.4 Note added to explain generic CVS S2K identifier Chapter 3.7.6 Note added to explain generic command parameter range set S2K identifier Chapter 3.8 Note added to explain generic curve S2K identifier Note : the implementation of generic S2K identifier for curve, CVS and parameter range set have been decided during DMWG21 (20/10/04) Chapter 3.1.2 Updated according to PSICD 5.0 and in order to have unique PIC table All chapters Minor corrections Chapter 3.8.1 Addition of digital curves SET / RESET and RESET / SET according to SES request Note : SES request for dummy TM parameters has not been included in this version. It will be in next one.	F. Chatte
1.2	30/12/2004	Add Spare acquisition parameters (1 to 16 bits) GMS01000 GMS02000 GMS03000 GMS04000 GMS05000 GMS06000 GMS07000 GMS08000 GMS09000 GMS10000 GMS11000 GMS12000 GMS13000 GMS14000 GMS15000 GMS16000	S. Dos Santos

		Update the Command header parameter identifier from GBSCF000 to GBSCS000 Add the command parameters: GPABS000 (Absolute Time-Tag needed for CCS) GPSUB000 (Sub-Schecdule for TTs needed for CCS) Add the command parameters: GPACT000 (Mandatory but not used in AIT. Forced to 0) GPRCD000 (RC Id identify the command to be executed on SCOE (identifies by APID) GPSTR000 (Structure Id) Add the TC packet GC0TT000 (Insert MTL-Telecommands in Command Schedule needed for CCS)	

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1. INTRODUCTION

This technical note has the objective to identify the generic items that shall be input on HPSDB central site by the prime company before HPSDB being available to the Users.
Generic items are the items which are not attached to an element, subsystem or model but which can be referenced by any element, subsystem or model. Those items are not instantiated, they are defined in the generic box. HPSDB supports the definition of all items as generic.
All the HPSDB Users have read access to this type of data, but only the HPSDB central site manager has write access. It's not possible to create/modify/delete generic items on a mirror site.
It is expected that all HPSDB users make use of those generic items in order to avoid unsafe duplication of items (for instance several ON / OFF curves with small differences in the way that they are implemented).
In particular, reference must be made to :

- TM PSICD items
  One TM PSICD item is present in generic box for each TM service type, and subtype defined on RD1 (see 3.1.2 TM packet PSICD data). There is no need to create any other TM Packet PSICD or TM Packet Standard.
  Note that for TM (8,6),TM(8,7) and TM (8,9) the Function ID and the Activity ID defined on RD1 as two 8- bit parameters have been merged in an unique 16 bit parameter.
  Note : the generic PSICD items contains the structure identifier 1 (SID1) and the structure identifier 2 (SID2) position and length which shall be used by all the Herschel / Planck users (refer to AD1 issue 2.2).
- Acquisition parameter items
  16 Spare acquisition parameters are defined.
- TC Packet Header items
  Two TC packet Header are defined (see 3.2.1 TC packet header data)
  - GX000000 has to be refer to by all TC packets defined in RD1 except the standard TC (2,3)
  - GX001000 has to be refer to by the standard TC (2,3)

  Consequently there is no need to create any other TC packet header nor Command Header parameters items.
  An exception to this rule can be envisaged for the testing of TC packet with TC Header rejection. Because a wrong TC packet will not be created on a generic box.
- TC Packet
  Load Command on the MTL
- Command parameter items
  16 Spare command parameters are defined with value 0
  5 command parameters
- Calibration Curves
  35 digital calibration curves are defined (see 3.8.1 Digital curve data)
  2 polynomial calibration curves are defined (see 3.8.4 Polynomial Curves)

  For the following generic items :
  - Calibration curve,
  - Command verification stage,
  - Parameter range set

  This document provides also the S2K identifier which differs from the HPSDB one due to a different format.

In addition due to S2K Command Verification Stage identifier format (integer in the range [0..65535], the HPSDB generic CVS identifier shall be in the range [000-9999], this is not controlled by HPSDB it is the user responsibility to check it.

2. APPLICABLE AND REFERENCE DOCUMENTS

2.1 Applicable documents

AD1	H-P-1-ASPI-ID-0141	Naming convention specification
AD2	H-P-1-ASPI-SP-0082	System Database Specification

2.1.1 Reference documents

RD1	SCI-PT-ICD-7527	Packet Structure Interface Control Document
RD2	H-P-1-ASPI-SP-0027	General Design and Interface Requirements
RD3	DSN 3408 02 AA	Thermistor Fenwal N 526-31-bs13-153 with ETFE wire Technical specification supply
RD4	PDS2131	Product Data Sheet Rev 6/97

2.2 Acronyms

HP	Herschel-Planck
HPSDB	Herschel / Planck System Data Base
TBW	To be write

2.3 Definition

3. GENERIC ITEMS:

3.1 Telemetry:

3.1.1 TM packet standard

Field	Value
TM packet standard	000TMSD0000000
Short description	TM Packet Standard
Long description	TM Standard template Common to Herschel and Planck

3.1.2 TM packet PSICD data

3.1.2.1 TM TC Acceptance Report- Success (1, 1)

Field	Value
TM packet PSICD identifier,	000TMPS001001000
Short description,	TM_TCAccepSuccess
Long description,	Telecommand Acceptance Report – Success (1,1)
TM packet standard ,	000TMSD0000000
Type,	1
Subtype,	1
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.2 TM TC Acceptance Report- Failure (1, 2)

Field	Value
TM packet PSICD identifier,	000TMPS001002000
Short description,	TM_TCAccepFailure
Long description,	Telecommand Acceptance Report – Failure (1,2)
TM packet standard ,	000TMSD0000000
Type,	1
Subtype,	2
Identifier 1 position,	20
Identifier 1 width,	16
Identifier 2 position,	-1
Identifier 2 width,	0

3.1.2.3 TM TC Execution Report-Started (1, 3)

Field	Value
TM packet PSICD identifier,	000TMPS001003000
Short description,	TM_TCExeStarted
Long description,	Telecommand Execution Report – Started (1,3)
TM packet standard ,	000TMSD0000000
Type,	1
Subtype,	3

Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.4 TM TC Execution Report-Progress (1, 5)

Field	Value
TM packet PSICD identifier,	000TMPS001005000
Short description,	TM_TCExeProgress
Long description,	Telecommand Execution Report – Progress (1,5)
TM packet standard ,	000TMSD0000000
Type,	1
Subtype,	5
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.5 TM Execution Report-Completed (1, 7)

Field	Value
TM packet PSICD identifier,	000TMPS001007000
Short description,	TM_TCExeCompleted
Long description,	Telecommand Execution Report – Completed (1,7)
TM packet standard ,	000TMSD0000000
Type,	1
Subtype,	7
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.6 TM TC Execution Report-Failure (1, 8)

Field	Value
TM packet PSICD identifier,	000TMPS001008000
Short description,	TM_TCExeFailure

Long description,	Telecommand Execution Report – Failure (1,8)
TM packet standard ,	000TMSD0000000
Type,	1
Subtype,	8
Identifier 1 position,	20
Identifier 1 width,	16
Identifier 2 position,	-1
Identifier 2 width,	0

3.1.2.7 TM TC Contents Report (1, 9)

Field	Value
TM packet PSICD identifier,	000TMPS001009000
Short description,	TM_TCContentsReport
Long description,	Telecommand Contents Report (1,9)
TM packet standard ,	000TMSD0000000
Type,	1
Subtype,	9
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.8 TM HK Parameter Report Definitions Report (3, 10)

Field	Value
TM packet PSICD identifier,	000TMPS003010000
Short description,	TM_ HKParameterDefReport
Long description,	HK Parameter Report Definitions Report (3,10)
TM packet standard ,	000TMSD0000000
Type,	3
Subtype,	10
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.9 TM Diagnostic Parameter Definition Report (3, 12)

Field	Value
TM packet PSICD identifier,	000TMPS003012000
Short description,	TM_DiagnosticDefParameter
Long description,	Diagnostic Parameter Report Definition Report (3,12)
TM packet standard ,	000TMSD0000000
Type,	3
Subtype,	12
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.10 TM HK Parameter Report (3, 25)

Field	Value
TM packet PSICD identifier,	000TMPS003025000
Short description,	TM_HKParameterReport
Long description,	HK Parameter Report (3,25)
TM packet standard ,	000TMSD0000000
Type,	3
Subtype,	25
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	-1
Identifier 2 width,	0

3.1.2.11 TM Diagnostic Parameter Report (3, 26)

Field	Value
TM packet PSICD identifier,	000TMPS003026000
Short description,	TM_DiagnosticParameter
Long description,	Diagnostic Parameter Report (3,26)
TM packet standard ,	000TMSD0000000
Type,	3
Subtype,	26
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	-1
Identifier 2 width,	0

3.1.2.12 TM Event Report (5, 1)

Field	Value
TM packet PSICD identifier,	000TMPS005001000
Short description,	TM_EventReport
Long description,	Event Report (5,1)
TM packet standard ,	000TMSD0000000
Type,	5
Subtype,	1
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	18
Identifier 2 width,	16

3.1.2.13 TM Exception Report (5, 2)

Field	Value
TM packet PSICD identifier,	000TMPS005002000
Short description,	TM_ExceptionReport
Long description,	Exception Report (5,2)
TM packet standard ,	000TMSD0000000
Type,	5
Subtype,	2
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	18
Identifier 2 width,	16

3.1.2.14 TM Error/Alarm Report (5,4)

Field	Value
TM packet PSICD identifier,	000TMPS005004000
Short description,	TM_ErrorAlarmReport
Long description,	Error/Alarm Report (5,4)
TM packet standard ,	000TMSD0000000
Type,	5
Subtype,	4
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	18

Identifier 2 width,	16

3.1.2.15 TM Memory Dump, Absolute Addresses (6, 6)

Field	Value
TM packet PSICD identifier,	000TMPS006006000
Short description,	TM_MemDumpAbsAd
Long description,	Memory Dump, Absolute Addresses (6,6)
TM packet standard ,	000TMSD0000000
Type,	6
Subtype,	6
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.16 TM Memory Check Report , Absolute addresses (6, 10)

Field	Value
TM packet PSICD identifier,	000TMPS006010000
Short description,	TM_MemCheckAbsAd
Long description,	Memory Check Report, Absolute addresses (6,10)
TM packet standard ,	000TMSD0000000
Type,	6
Subtype,	10
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.17 TM Function Status Report (8, 6)

Field	Value
TM packet PSICD identifier,	000TMPS008006000 *
Short description,	TM_FunctionStatus
Long description,	Function Status Report (8,6)
TM packet standard ,	000TMSD0000000
Type,	8
Subtype,	6
Identifier 1 position,	16

Identifier 1 width,	16
Identifier 2 position,	18
Identifier 2 width,	16

(*)This generic definition applies if the packet contains the optional field SID. If the filed SID is not defined inside of the packet a dedicated TM Packet PSICD has to be defined. (This is not compliant with SCOS – PSICD will be modified : TBC)

3.1.2.18 TM SREM Data Report (8, 7)

Field	Value
TM packet PSICD identifier,	000TMPS008007000
Short description,	TM_SREMDataReport
Long description,	SREM Data Report (8,7)
TM packet standard ,	000TMSD0000000
Type,	8
Subtype,	7
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	18
Identifier 2 width,	16

3.1.2.19 TM VMC Data Report (8, 8)

Field	Value
TM packet PSICD identifier,	000TMPS008008000
Short description,	TM_VMCDataReport
Long description,	VMCData Report (8,8)
TM packet standard ,	000TMSD0000000
Type,	8
Subtype,	8
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	-1
Identifier 2 width,	0

3.1.2.20 TM Mass Memory Dump Report (8, 9)

Field	Value
TM packet PSICD identifier,	000TMPS008009000
Short description,	TM_MassMemDump
Long description,	Mass Memory Dump Report (8,9)
TM packet standard ,	000TMSD0000000
Type,	8

Subtype,	9
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	18
Identifier 2 width,	16

3.1.2.21 TM Central Time Reference (9, 8)

Field	Value
TM packet PSICD identifier,	000TMPS009008000
Short description,	TM_CentralTimeReference
Long description,	Central Time Reference (9,8)
TM packet standard ,	000TMSD0000000
Type,	9
Subtype,	8
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.22 TM Time Verification Report (9, 9)

Field	Value
TM packet PSICD identifier,	000TMPS009009000
Short description,	TM_TimeVerification
Long description,	Time Verification Report (9,9)
TM packet standard ,	000TMSD0000000
Type,	9
Subtype,	9
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.23 TM Detailed Schedule Report (11, 10)

Field	Value

TM packet PSICD identifier,	000TMPS011010000
Short description,	TM_DetailedSchedule
Long description,	Detailed Schedule Report (11,10)
TM packet standard ,	000TMSD0000000
Type,	11
Subtype,	10
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.24 TM Summary Schedule Report (11, 13)

Field	Value
TM packet PSICD identifier,	000TMPS011013000
Short description,	TM_SummarySchedule
Long description,	Summary Schedule Report (11,13)
TM packet standard ,	000TMSD0000000
Type,	11
Subtype,	13
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.25 TM Command Schedule Status Report (11, 19)

Field	Value
TM packet PSICD identifier,	000TMPS011019000
Short description,	TM_CmdScheduleStatus
Long description,	Command Schedule Status Report (11,19)
TM packet standard ,	000TMSD0000000
Type,	11
Subtype,	19
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.26 TM Current Monitoring List Report (12, 9)

Field	Value
TM packet PSICD identifier,	000TMPS012009000
Short description,	TM_CurrentMonitorList
Long description,	Current Monitoring List Report (12,9)
TM packet standard ,	000TMSD0000000
Type,	12
Subtype,	9
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.27 TM Enabled Telemetry Packets Report (14, 4)

Field	Value
TM packet PSICD identifier,	000TMPS014004000
Short description,	TM_EnabTMPacket
Long description,	Enabled Telemetry Packets Report (14,4)
TM packet standard ,	000TMSD0000000
Type,	14
Subtype,	4
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.28 TM TM Packets Down-linking / Storage Status Report (14, 7)

Field	Value
TM packet PSICD identifier,	000TMPS014007000
Short description,	TM_DownLink
Long description,	TM Packets Down-link. / Stor. Status Report
TM packet standard ,	000TMSD0000000
Type,	14
Subtype,	7
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.29 TM Storage Selection Definition Report (15, 6)

Field	Value
TM packet PSICD identifier,	000TMPS015006000
Short description,	TM_StorageSelecDef
Long description,	Storage Selection Definition Report (15,6)
TM packet standard ,	000TMSD0000000
Type,	15
Subtype,	6
Identifier 1 position,	16
Identifier 1 width,	8
Identifier 2 position,	-1
Identifier 2 width,	0

3.1.2.30 TM Packet Stores Catalogue Report (15, 13)

Field	Value
TM packet PSICD identifier,	000TMPS015013000
Short description,	TM_PacketStoresCatalogue
Long description,	Packet Stores Catalogue Report (15,13)
TM packet standard ,	000TMSD0000000
Type,	15
Subtype,	13
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.31 TM Connection Test Report (17, 2)

Field	Value
TM packet PSICD identifier,	000TMPS017002000
Short description,	TM_ConnectionTest
Long description,	Connection Test Report (17,2)
TM packet standard ,	000TMSD0000000
Type,	17
Subtype,	2
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	

Identifier 2 width,	

3.1.2.32 TM On-Board Control Procedures List Report (18, 9)

Field	Value
TM packet PSICD identifier,	000TMPS018009000
Short description,	TM_OnBoardCtProc
Long description,	On-Board Control Procedures List Report (18,9)
TM packet standard ,	000TMSD0000000
Type,	18
Subtype,	9
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.33 TM Active OBCPs List Report (18, 11)

Field	Value
TM packet PSICD identifier,	000TMPS018011000
Short description,	TM_ActiveOBCPList
Long description,	Active OBCPs List Report (18,11)
TM packet standard ,	000TMSD0000000
Type,	18
Subtype,	11
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.34 TM OBCP Status Report (18, 13)

Field	Value
TM packet PSICD identifier,	000TMPS018013000
Short description,	TM_OBCPStatus
Long description,	OBCP Status Report (18,13)
TM packet standard ,	000TMSD0000000
Type,	18
Subtype,	13
Identifier 1 position,	-1
Identifier 1 width,	0

Identifier 2 position,	
Identifier 2 width,	

3.1.2.35 TM OBCP Contents Report (18, 15)

Field	Value
TM packet PSICD identifier,	000TMPS018015000
Short description,	TM_OBCPContents
Long description,	OBCP Contents Report (18,15)
TM packet standard ,	000TMSD0000000
Type,	18
Subtype,	15
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.36 TM Event Detection List Report (19, 7)

Field	Value
TM packet PSICD identifier,	000TMPS019007000
Short description,	TM_EventDetecList
Long description,	Event Detection List Report (19,7)
TM packet standard ,	000TMSD0000000
Type,	19
Subtype,	7
Identifier 1 position,	-1
Identifier 1 width,	0
Identifier 2 position,	
Identifier 2 width,	

3.1.2.37 TM Nominal Science Data Report (21, 1)

Field	Value
TM packet PSICD identifier,	000TMPS021001000
Short description,	TM_NominalScienceData
Long description,	Nominal Science Data Report (21,1)
TM packet standard ,	000TMSD0000000

Type,	21
Subtype,	1
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	-1
Identifier 2 width,	0

Note: no structure identifier extracted as far as it is science data.

3.1.2.38 TM Science Type B Data Report (21, 2)

Field	Value
TM packet PSICD identifier,	000TMPS021002000
Short description,	TM_ScienceTypeBData
Long description,	Science Type B Data Report (21,2)
TM packet standard ,	000TMSD0000000
Type,	21
Subtype,	2
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	-1
Identifier 2 width,	0

Note: no structure identifier extracted as far as it is science data.

3.1.2.39 TM Diagnostic Science Data Report (21, 3)

Field	Value
TM packet PSICD identifier,	000TMPS021003000
Short description,	TM_DiagScienceData
Long description,	Diagnostic Science Data Report (21,3)
TM packet standard ,	000TMSD0000000
Type,	21
Subtype,	3
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	-1
Identifier 2 width,	0

Note: no structure identifier extracted as far as it is science data.

3.1.2.40 TM Auxiliary Science Data Report (21, 4)

Field	Value

TM packet PSICD identifier,	000TMPS021004000
Short description,	TM_AuxScienceData
Long description,	Auxiliary Science Data Report (21,4)
TM packet standard ,	000TMSD0000000
Type,	21
Subtype,	4
Identifier 1 position,	16
Identifier 1 width,	16
Identifier 2 position,	-1
Identifier 2 width,	0

Note: no structure identifier extracted as far as it is science data.

3.1.3 TM Packet Data

Not identified

3.1.4 TM Packet SCOS archiving

TBW. Waiting for clarification with ALS & Terma

3.1.5 TM structure data

Not identified

3.1.6 TM packet group data

Not identified

3.2 Telecommands

3.2.1 TC packet header data

Two TC packet headers are defined for the Herschel Planck project :

3.2.1.1 TC Packet Header With Data Field Header

Field	Value
TC packet header identifier	GX000000
Short description	TC_PacketHeader_DFHis1
Long description	TC Packet Header with Data field Header (DFH=1)
List of parameter :	
TC packet parameter identifier,	Version Number
TC packet parameter type,	Fixed Area

Bit offset,	0
Length	3
Value,	0
Radix.	Decimal
TC packet parameter identifier,	Type
TC packet parameter type,	Fixed Area
Bit offset,	3
Length	1
Value,	1
Radix.	Decimal
TC packet parameter identifier,	DFH
TC packet parameter type,	Fixed Area
Bit offset,	4
Length	1
Value,	1
Radix.	Decimal
TC packet parameter identifier,	GBAPD000
TC packet parameter type,	APID
Bit offset,	5
Length	11
Value,	
Radix.	Decimal
TC packet parameter identifier,	Seq Flag
TC packet parameter type,	Fixed Area
Bit offset,	16
Length	2
Value,	3
Radix.	Decimal
TC packet parameter identifier,	GBSCT000
TC packet parameter type,	Parameter
Bit offset,	18
Length	3
Value,	
Radix.	Decimal
TC packet parameter identifier,	GBSCS000
TC packet parameter type,	Parameter
Bit offset,	21
Length	11
Value,	
Radix.	Decimal
TC packet parameter identifier,	GBLEN000
TC packet parameter type,	Parameter
Bit offset,	32
Length	16
Value,	
Radix.	Decimal
TC packet parameter identifier,	Sec Header
TC packet parameter type,	Fixed Aread
Bit offset,	48

Length	1
Value,	0
Radix.	Decimal
TC packet parameter identifier,	PUS
TC packet parameter type,	Fixed Area
Bit offset,	49
Length	3
Value,	0
Radix.	Decimal
TC packet parameter identifier,	GBACK000
TC packet parameter type,	Acknowledgment
Bit offset,	52
Length	4
Value,	
Radix.	Decimal
TC packet parameter identifier,	GBTYP000
TC packet parameter type,	Type
Bit offset,	56
Length	8
Value,	
Radix.	Decimal
TC packet parameter identifier,	GBSTY000
TC packet parameter type,	Subtype
Bit offset,	64
Length	8
Value,	
Radix.	Decimal
TC packet parameter identifier,	Spare
TC packet parameter type,	Fixed Area
Bit offset,	72
Length	8
Value,	0
Radix.	Decimal

3.2.1.2 TC Packet Header Without Data Field Header

Field	Value
TC packet header identifier	GX002000
Short description	TC_PacketHeader_DFHis0
Long description	TC Packet Header without Data Field Header (DFH = 0)
List of parameter :	
TC packet parameter identifier,	Version Number

TC packet parameter type,	Fixed Area
Bit offset,	0
Length	3
Value,	0
Radix.	Decimal
TC packet parameter identifier,	Type
TC packet parameter type,	Fixed Area
Bit offset,	3
Length	1
Value,	1
Radix.	Decimal
TC packet parameter identifier,	NDF
TC packet parameter type,	Fixed Area
Bit offset,	4
Length	1
Value,	0
Radix.	Decimal
TC packet parameter identifier,	GBAPD000
TC packet parameter type,	APID
Bit offset,	5
Length	11
Value,	
Radix.	Decimal
TC packet parameter identifier,	Seq Flag
TC packet parameter type,	Fixed Area
Bit offset,	16
Length	2
Value,	3
Radix.	Decimal
TC packet parameter identifier,	GBSCT000
TC packet parameter type,	Parameter
Bit offset,	18
Length	3
Value,	
Radix.	Decimal
TC packet parameter identifier,	GBSCS000
TC packet parameter type,	Parameter
Bit offset,	21
Length	11
Value,	
Radix.	Decimal
TC packet parameter identifier,	GBLEN000
TC packet parameter type,	Parameter
Bit offset,	32
Length	16
Value,	
Radix.	Decimal

Note:
For TC packet type = 2, subtype = 3 and ,APID=0, and MAPID =0, the TC packet header to be used is GX0001000 (ie with data field header flag set to 0 : no data field header)
For TC packet type = 2, subtype = 3 and ,APID=16, and MAPID =1, the TC packet header to be used is GX0000000 (ie with data field header flag set to 1 : existing data field header)

3.2.2 TC packet data

3.2.2.1 Load Command on the MTL

Field	Value
TC packet identifier	GC0TT000
Short description	Load Command on the MTL
Long description	Insert MTL-Telecommands in Command Schedule
Reason of change	Generic Data
APID category	16
High priority flag,	-
MAP identifier (0,1,2,32),	1
Type,	11
Sub type,	4
Acknowledgement- Acceptance	No
Acknowledgement- Start	No
Acknowledgement- Progress	No
Acknowledgement- Completion	No
Command type (N/R/F/S/"Null")	N (Normal)
Authorization flag (Y/N)	-
Identifier of redundant generic or element telecommand	-
Identifier of complementary generic or element telecommand	-
TC packet header identifier	GX000000
List of command verification stage	
Generic or element command verification stage identifier	-
List of element TC or command parameter structures / command parameters / fixed areas	
Selector- Generic or element Command parameter identifier	-
Selector- Value radix (H/D),	-
Selector- Raw value	-
Type (structure, parameter or fixed area)	-
Generic or Element TC or command parameter structure identifier / Generic or element command parameter identifier / fixed area description	GPABS000
Offset byte of the structure / parameter / fixed area field within the packet data field,	0
Start bit of the parameter / fixed area field within offset byte (N/A for theoretical structure)	0
For structure only :	-

Number of times the element structure / parameter is repeated in the packet (0 for variable packet length),	-
Generic or element command parameter identifier as counter or dummy counter	-
Value of counter or dummy counter	-
For parameter only	-
Editable flag	E
Value representation	Raw
Value - Constant or value flag	Value
Value - Constant identifier	-
Value - Value	-
Generic or element monitoring parameter identifier	-
Number of occurrences (by default 1)	1
Number of bits between two occurrences	-
For fixed area only	-
Field length- Constant or value flag	-
Field length- Generic or element constant identifier	-
Field length- Value	-
Selector- Generic or element Command parameter identifier	-
Selector- Value radix (H/D),	-
Selector- Raw value	-
Type (structure, parameter or fixed area)	-
Generic or Element TC or command parameter structure identifier / Generic or element command parameter identifier / fixed area description	GPSUB000
Offset byte of the structure / parameter / fixed area field within the packet data field,	0
Start bit of the parameter / fixed area field within offset byte (N/A for theoretical structure)	0
For structure only :	-
Number of times the element structure / parameter is repeated in the packet (0 for variable packet length),	-
Generic or element command parameter identifier as counter or dummy counter	-
Value of counter or dummy counter	-
For parameter only	-
Editable flag	E
Value representation	Raw
Value - Constant or value flag	Value
Value - Constant identifier	-
Value - Value	-
Generic or element monitoring parameter identifier	-
Number of occurrences (by default 1)	1
Number of bits between two occurrences	-
For fixed area only	-
Field length- Constant or value flag	-
Field length- Generic or element constant identifier	-
Field length- Value	-
List of associated generic or element parameters sets -	

Generic or element parameter set identifier	-
default generic or element parameter value set identifier	-
Default sub schedule identifier	-
Sending pre-conditions- Generic or element monitoring Parameter identifier	-
Sending pre-conditions - Value representation (E/R),	-
Sending pre-conditions – Value- Constant or value flag	-
Sending pre-conditions – Value- Generic or element constant identifier	-
Sending pre-conditions – Value- Value	-
Planification type (A/F/S/N)	N (None)
Executable elementary command (N/Y),	-
Interlock scope (G/L/S/N),	No interlock
Interlock stage (R/U/O/A/C)	Completion
Forbidden flag,	-
CDMU software initialisation flag	-
ACC software initialisation flag	-

3.2.3 TC structure data

Not identified

3.2.4 TC packet group data

Not identified

3.3 Command Sequences

3.3.1 Command Sequences

Not identified

3.4 Command verification

Not identified

Note : in case generic command verification are defined, the S2K identifier shall be provided and shall be equal to the element command verification stagte identifier plus 10000.

3.4.1 Command verification

Not identified

3.5 1553 Messages

3.5.1 Command word

Not identified

3.5.2 1553 Status word data

Not identified

3.5.3 1553 Message data

Not identified

3.5.4 1553 Acquisition command link

Not identified

3.5.5 1553 Structure

Not identified

3.5.6 1553 Message group data

Not identified

3.6 OBDH

3.6.1 OBDH interrogation

Not identified

3.6.2 OBDH acquisition command link

Not identified

3.6.3 OBDH interrogation group data

Not identified

3.7 Parameters

3.7.1 Acquisition Parameters

3.7.1.1 Spare 1 – Bit

Field	Value
Item name	GMS01000
Short description	SPARE_1_BIT
Long Description	Spare 1 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	1
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-

Field	Value
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.2 Spare 2 – Bit

Field	Value
Item name	GMS02000
Short description	SPARE_2_BIT
Long Description	Spare 2 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-

Field	Value
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	2
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.3 Spare 3 – Bit

Field	Value
Item name	GMS03000
Short description	SPARE_3_BIT
Long Description	Spare 3 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	3
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-

Field	Value
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.4 Spare 4 – Bit

Field	Value
Item name	GMS04000
Short description	SPARE_4_BIT
Long Description	Spare 4 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-

Field	Value
PTC	2
PFC	4
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.5 Spare 5 – Bit

Field	Value
Item name	GMS05000
Short description	SPARE_5_BIT

Field	Value
Long Description	Spare 5 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	5
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-

Field	Value
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.6 Spare 6 – Bit

Field	Value
Item name	GMS06000
Short description	SPARE_6_BIT
Long Description	Spare 6 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	6
Calibration Category	-

Field	Value
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.7 Spare 7 – Bit

Field	Value
Item name	GMS07000
Short description	SPARE_7_BIT
Long Description	Spare 7 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter

Field	Value
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	7
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-

Field	Value
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.8 Spare 8 – Bit

Field	Value
Item name	GMS08000
Short description	SPARE_8_BIT
Long Description	Spare 8 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	8
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-

Field	Value
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.9 Spare 9 – Bit

Field	Value
Item name	GMS09000
Short description	SPARE_9_BIT
Long Description	Spare 9 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-

Field	Value
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	9
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-

Field	Value
Category flag	-

3.7.1.10 Spare 10 – Bit

Field	Value
Item name	GMS10000
Short description	SPARE_10_BIT
Long Description	Spare 10 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	10
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-

Field	Value
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.11 Spare 11 – Bit

Field	Value
Item name	GMS11000
Short description	SPARE_11_BIT
Long Description	Spare 11 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-

Field	Value
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	11
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.12 Spare 12 – Bit

Field	Value
Item name	GMS12000
Short description	SPARE_12_BIT
Long Description	Spare 12 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	12
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-

Field	Value
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.13 Spare 13 – Bit

Field	Value
Item name	GMS13000
Short description	SPARE_13_BIT
Long Description	Spare 13 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-

Field	Value
PTC	2
PFC	13
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.14 Spare 14 – Bit

Field	Value
Item name	GMS14000
Short description	SPARE_14_BIT

Field	Value
Long Description	Spare 14 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	14
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-

Field	Value
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.15 Spare 15 – Bit

Field	Value
Item name	GMS15000
Short description	SPARE_15_BIT
Long Description	Spare 15 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	15
Calibration Category	-

Field	Value
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.1.16 Spare 16 – Bit

Field	Value
Item name	GMS16000
Short description	SPARE_16_BIT
Long Description	Spare 16 bits
Reason of change	Generic Data
Parameter Type	Acquisition Parameter

Field	Value
On-board Parameter identifier	-
Padded width	-
Daughter Parameter id	-
Daughter Parameter Location	-
Related Parameter	-
Validity Condition-Parameter identifier	-
Validity Condition-Raw or engineering value flag	-
Validity Condition-Radix	-
Binary Conversion	-
PTC	2
PFC	16
Calibration Category	-
Units	-
Calibration curve-Type	-
Calibration curve identifier	-
Has Limit Calibration	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-

Field	Value
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.2 Command Header Parameters

3.7.2.1 APID

Field	Value
Item name	GBAPD000
Short description	APID
Long Description	Packet APID
Reason of change	Generic Data
Parameter Type	Command Header Parameter
Parameter Type -Type	A
Parameter Type -Value	
Parameter Type –Raw Radix	D
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	7
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-

Field	Value
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.2.2 Sequence Count Source Part

Field	Value
Item name	GBSCT000
Short description	Seq Count - Source
Long Description	Sequence Count - Source Part
Reason of change	Generic Data
Parameter Type	Command Header Parameter
Parameter Type -Type	P
Parameter Type -Value	
Parameter Type –Raw Radix	D
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	3
Calibration Category	-
Units	-
Default Calibration curve-Type	-

Field	Value
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.2.3 Sequence Count Sequence Part

Field	Value
Item name	GBSCS000
Short description	Seq Count - Seq
Long Description	Sequence Count – Sequence Part
Reason of change	Generic Data
Parameter Type	Command Header Parameter
Parameter Type -Type	P
Parameter Type -Value	

Field	Value
Parameter Type –Raw Radix	D
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	7
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.2.4 Packet Length

Field	Value
Item name	GBLEN000
Short description	Packet Length
Long Description	Packet Length
Reason of change	Generic Data
Parameter Type	Command Header Parameter
Parameter Type -Type	P
Parameter Type -Value	
Parameter Type –Raw Radix	D
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	12
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-

Field	Value
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.2.5 Acknowledgement flags

Field	Value
Item name	GBACK000
Short description	Ack
Long Description	Acknowledgement
Reason of change	Generic Data
Parameter Type	Command Header Parameter
Parameter Type -Type	K
Parameter Type -Value	
Parameter Type –Raw Radix	D
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	4
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-

Field	Value
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.2.6 Packet Type

Field	Value
Item name	GBTYP000
Short description	Packet Type
Long Description	Packet Type
Reason of change	Generic Data
Parameter Type	Command Header Parameter
Parameter Type -Type	T
Parameter Type -Value	
Parameter Type –Raw Radix	D
Validity Condition	-
Validity Condition -Parameter identifier	-

Field	Value
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	8
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.2.7 Packet Subtype

Field	Value

Field	Value
Item name	GBSTY000
Short description	Packet Subtype
Long Description	Packet Subtype
Reason of change	Generic Data
Parameter Type	Command Header Parameter
Parameter Type -Type	S
Parameter Type -Value	
Parameter Type –Raw Radix	D
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	8
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-

Field	Value
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3 Command Parameters

Note please that on HPSDB is possible to include fixed areas on the TC packets, so a spare can be defined as a fixed area, or can be a reference to the following generic command parameters:

3.7.3.1 Spare 1 - Bit

Field	Value
Item name	GPS01000
Short description	SPARE_1_BIT
Long Description	Spare 1 bit
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	1
Calibration Category	-

Field	Value
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.2 Spare 2 - Bit

Field	Value
Item name	GPS02000
Short description	SPARE_2_BIT
Long Description	Spare 2 bits
Reason of change	Generic Data
Parameter Type	Command Parameter

Field	Value
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	2
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-

Field	Value
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.3 Spare 3 - Bit

Field	Value
Item name	GPS03000
Short description	SPARE_3_BIT
Long Description	Spare 3 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	3
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-

Field	Value
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.4 Spare 4 - Bit

Field	Value
Item name	GPS04000
Short description	SPARE_4_BIT
Long Description	Spare 4 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-

Field	Value
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	4
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.5 Spare 5 - Bit

Field	Value

Field	Value
Item name	GPS05000
Short description	SPARE_5_BIT
Long Description	Spare 5 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	5
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-

Field	Value
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.6 Spare 6 - Bit

Field	Value
Item name	GPS06000
Short description	SPARE_6_BIT
Long Description	Spare 6 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	6
Calibration Category	-
Units	-
Default Calibration curve-Type	-

Field	Value
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.7 Spare 7 - Bit

Field	Value
Item name	GPST0700
Short description	SPARE_7_BIT
Long Description	Spare 7 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D

Field	Value
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	7
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-

Field	Value
Category flag	-

3.7.3.8 Spare 8 - Bit

Field	Value
Item name	GPS08000
Short description	SPARE_8_BIT
Long Description	Spare 8 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	8
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-

Field	Value
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.9 Spare 9- Bit

Field	Value
Item name	GPS09000
Short description	SPARE_9_BIT
Long Description	Spare 9 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-

Field	Value
PTC	3
PFC	5
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.10 Spare 10 - Bit

Field	Value
Item name	GPS10000
Short description	SPARE_10_BIT
Long Description	Spare 10 bits

Field	Value
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	6
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-

Field	Value
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.11 Spare 11- Bit

Field	Value
Item name	GPS11000
Short description	SPARE_11_BIT
Long Description	Spare 11 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	7
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-

Field	Value
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.12 Spare 12- Bit

Field	Value
Item name	GPS12000
Short description	SPARE_12_BIT
Long Description	Spare 12 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-

Field	Value
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	8
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.13 Spare 13 - Bit

Field	Value
Item name	GPS13000
Short description	SPARE_13_BIT
Long Description	Spare 13 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	9
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-

Field	Value
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.14 Spare 14 - Bit

Field	Value
Item name	GPS14000
Short description	SPARE_14_BIT
Long Description	Spare 14 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	10
Calibration Category	-

Field	Value
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.15 Spare 15 - Bit

Field	Value
Item name	GPS15000
Short description	SPARE_15_BIT
Long Description	Spare 15 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal

Field	Value
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	11
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-

Field	Value
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.16 Spare 16- Bit

Field	Value
Item name	GPS16000
Short description	SPARE_16_BIT
Long Description	Spare 16 bits
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	D
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	12
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-

Field	Value
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.17 Absolute Time-Tag

Field	Value
Item name	GPABS000
Short description	Absolute Time-Tag
Long Description	Absolute Time-Tag
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Decimal
Parameter Type – Default Value representation	-
Parameter Type –Constant or value flag	Value
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-

Field	Value
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	9
PFC	17
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.18 Sub-Schedule for TTs

Field	Value
Item name	GPSUB000
Short description	Sub-Schedule for TTs
Long Description	Sub-Schedule for TTs
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Decimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	Value
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	3
PFC	12
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-

Field	Value
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.19 Activity Id

Field	Value
Item name	GPS16000
Short description	Activity Id
Long Description	Mandatory but not used in AIT. Forced to 0.
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	Value
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	8
Calibration Category	-

Field	Value
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.20 RC Ident

Field	Value
Item name	GPS16000
Short description	RC Ident
Long Description	RC Id identify the command to be executed on SCOE (identifies by APID)
Reason of change	Generic Data
Parameter Type	Command Parameter

Field	Value
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	Value
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	8
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-

Field	Value
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.3.21 Structure Id Field

Field	Value
Item name	GPSTR000
Short description	Structure Id
Long Description	Structure Ident Field
Reason of change	Generic Data
Parameter Type	Command Parameter
Parameter Type –Raw Radix	Hexadecimal
Parameter Type – Default Value representation	0
Parameter Type –Constant or value flag	Value
Parameter Type –Generic or contant identifier	
Validity Condition	-
Validity Condition -Parameter identifier	-
Validity Condition -Raw or engineering value flag	-
Validity Condition -Parameter Value	-
Binary Conversion	-
PTC	2
PFC	16
Calibration Category	-
Units	-
Default Calibration curve-Type	-
Calibration curve identifier	-
Ordered list of condition for calibration curve selection	-
Order	-
Condition parameter	-

Field	Value
Condition Raw or engineering flag	-
Condition Radix	-
Condition value	-
Curve Subtype	-
Calibration curve identifier	-
Limit calibration	-
Maximum number of over-limit occurrences acceptable	-
List of limits	-
Order	-
Condition Parameter	-
Condition Raw or engineering flag	-
Condition Parameter value	-
Type	-
Low Limit	-
Hight limit	-
Category flag	-

3.7.4 Parameter group data

Not identified

3.7.5 Parameter set data

Not identified

3.7.6 Parameter value set

Not identified

3.7.7 Parameter range set data

Not identified

Note : in case generic parameter range set are defined, the S2K identifier shall be provided and shall be equal to the element parameter range set identifier plus 1000.

3.8 Calibration Curves

Wainting for thermostors calibration curves inputs.
Note The S2K identifier is equal to element curve identifier inside the element (from fourth to sixth characters) plus 1000.

3.8.1 Digital curve data

In case of one bit digital raw value, the short description of the curve is the label associated to the raw value 1.

The identified generic digital curves are:

3.8.1.1 OFF/ON

0 is ON
1 is is OFF

Field	Value
Curve identifier	000001
S2K identifier	1001
Short description	OFF
Long description	1 is OFF 0 is ON
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	ON
Low raw value	1
High raw value	1
Status	OFF

3.8.1.2 ON / OFF

0 is OFF
1 is is ON

Field	Value
Curve identifier	000002
S2K identifier	1002
Short description	ON
Long description	1 is ON 0 is OFF
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	OFF
Low raw value	1
High raw value	1
Status	ON

3.8.1.3 NOMINAL / REDUNDANT

0 is REDUNDANT
1 is is NOMINAL

Field	Value
Curve identifier	000003
S2K identifier	1003
Short description	NOMINAL
Long description	1 is NOMINAL 0 is REDUNDANT
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	REDUNDANT
Low raw value	1
High raw value	1
Status	NOMINAL

3.8.1.4 REDUNDANT / NOMINAL

0 is NOMINAL
1 is is REDUNDANT

Field	Value
Curve identifier	000004
S2K identifier	1004
Short description	REDUNDANT
Long description	1 is REDUNDANT 0 is NOMINAL
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	NOMINAL
Low raw value	1
High raw value	1
Status	REDUNDANT

3.8.1.5 OK / FAULT

0 is FAULT
1 is is OK

Field	Value
Curve identifier	000005
S2K identifier	1005
Short description	OK
Long description	1 is OK 0 is FAULT
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	FAULT
Low raw value	1
High raw value	1
Status	OK

3.8.1.6 FAULT / OK

0 is OK
1 is is FAULT

Field	Value
Curve identifier	000006
S2K identifier	1006
Short description	FAULT
Long description	1 is FAULT 0 is OK
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0

High raw value	0
Status	OK
Low raw value	1
High raw value	1
Status	FAULT

3.8.1.7 ACTIVE /NOTACTIVE

0 is NOTACTIVE
1 is is ACTIVE

Field	Value
Curve identifier	000007
S2K	1007
Short description	ACTIVE
Long description	1 is ACTIVE 0 is NOTACTIVE
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	NOTACTIVE
Low raw value	1
High raw value	1
Status	ACTIVE

3.8.1.8 NOTACTIVE/ACTIVE

0 is ACTIVE
1 is is NOTACTIVE

Field	Value
Curve identifier	000008
S2K identifier	1008

Short description	NOTACTIVE
Long description	1 is NOTACTIVE 0 is ACTIVE
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	ACTIVE
Low raw value	1
High raw value	1
Status	NOTACTIVE

3.8.1.9 CLOSE/OPEN

0 is OPEN
1 is is CLOSE

Field	Value
Curve identifier	000009
S2K identifier	1009
Short description	CLOSE
Long description	1 is CLOSE 0 is OPEN
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	OPEN

Low raw value	1
High raw value	1
Status	CLOSE

3.8.1.10 OPEN/CLOSE

0 is CLOSE
1 is is OPEN

Field	Value
Curve identifier	000010
S2K identifier	1010
Short description	OPEN
Long description	1 is OPEN 0 is CLOSE
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	CLOSE
Low raw value	1
High raw value	1
Status	OPEN

3.8.1.11 TRUE/FALSE

0 is FALSE
1 is TRUE

Field	Value
Curve identifier	000013
S2K identifier	1013
Short description	TRUE
Long description	1 is TRUE 0 is FALSE
Type (analogue or digital)	Digital

Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	FALSE
Low raw value	1
High raw value	1
Status	TRUE

3.8.1.12 FALSE/TRUE

0 is TRUE
1 is FALSE

Field	Value
Curve identifier	000024
S2K identifier	1024
Short description	FALSE
Long description	1 is FALSE 0 is TRUE
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	TRUE
Low raw value	1
High raw value	1
Status	FALSE

3.8.1.13 BUS_B/BUS_A

0 is BUS_A
1 is BUS_B

Field	Value
Curve identifier	000015
S2K identifier	1015
Short description	BUS_B
Long description	1 is BUS_B 0 is BUS_A
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	BUS_A
Low raw value	1
High raw value	1
Status	BUS_B

3.8.1.14 BUS_A/BUS_B

0 is BUS_B
1 is BUS_A

Field	Value
Curve identifier	000025
S2K identifier	1025
Short description	BUS_A
Long description	1 is BUS_A 0 is BUS_B
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	BUS_B
Low raw value	1
High raw value	1
Status	BUS_A

3.8.1.15 REMOTE/LOCAL

0 is REMOTE
1 is LOCAL

Field	Value
Curve identifier	000016
S2K identifier	1016
Short description	REMOTE
Long description	1 is REMOTE 0 is LOCAL
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	LOCAL
Low raw value	1
High raw value	1
Status	REMOTE

3.8.1.16 LOCAL/REMOTE

0 is REMOTE
1 is LOCAL

Field	Value
Curve identifier	000026
S2K identifier	1026
Short description	LOCAL
Long description	1 is LOCAL 0 is REMOTE
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	REMOTE
Low raw value	1
High raw value	1
Status	LOCAL

3.8.1.17 ENABLED/DISABLED

0 is DISABLED
1 is ENABLED

Field	Value
Curve identifier	000017
S2K identifier	1017
Short description	ENABLED
Long description	1 is ENABLED 0 is DISABLED
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0

High raw value	0
Status	DISABLED
Low raw value	1
High raw value	1
Status	ENABLED

3.8.1.18 DISABLED/ ENABLED

0 is ENABLED
1 is DISABLED

Field	Value
Curve identifier	000027
S2K identifier	1027
Short description	DISABLED
Long description	1 is DISABLED 0 is ENABLED
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	ENABLED
Low raw value	1
High raw value	1
Status	DISABLED

3.8.1.19 STOP_RUN_PAUSE

0 is STOP
1 is RUN
2 IS PAUSE

Field	Value
Curve identifier	000018
S2K identifier	1018
Short description	STOP_RUN_PAUSE
Long description	0 is STOP 1 is RUN

	2 IS PAUSE
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	STOP
Low raw value	1
High raw value	1
Status	RUN
Low raw value	1
High raw value	1
Status	PAUSE

3.8.1.20 STATUS

0 is CONFIG
1 is IDLE
2 is OPERATIONAL
3 is ERROR

Field	Value
Curve identifier	000019
S2K identifier	1019
Short description	STATUS
Long description	0 is CONFIG 1 is IDLE 2 is OPERATIONAL 3 is ERROR
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	CONFIG
Low raw value	1
High raw value	1
Status	IDLE
Low raw value	2
High raw value	2
Status	OPERATIONAL
Low raw value	3
High raw value	3
Status	ERROR

3.8.1.21 PASSED/FAILED

0 is PASSED
1 is FAILED

Field	Value
Curve identifier	000020
S2K identifier	1020
Short description	PASSED
Long description	1 is PASSED 0 is FAILED
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	FAILED
Low raw value	1
High raw value	1
Status	PASSED

3.8.1.22 FAILED/ PASSED

0 is FAILED

1 is PASSED

Field	Value
Curve identifier	000028
S2K identifier	1028
Short description	FAILED
Long description	1 is FAILED 0 is PASSED
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	PASSED
Low raw value	1
High raw value	1
Status	FAILED

3.8.1.23 ONLINE/OFFLINE

0 is OFFLINE
1 is ONLINE

Field	Value
Curve identifier	000021
S2K identifier	1021
Short description	ONLINE
Long description	1 is ONLINE 0 is OFFLINE
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	OFFLINE
Low raw value	1
High raw value	1
Status	ONLINE

3.8.1.24 OFFLINE/ONLINE

0 is ONLINE
1 is OFFLINE

Field	Value
Curve identifier	000029
S2K identifier	1029
Short description	OFFLINE
Long description	1 is OFFLINE 0 is ONLINE
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	ONLINE
Low raw value	1
High raw value	1
Status	OFFLINE

3.8.1.25 RUNNING/NOT_RUNNING

0 is NOT_RUNNING
1 is RUNNING

Field	Value

Curve identifier	000022
S2K identifier	1022
Short description	RUNNING
Long description	1 is RUNNING 0 is NOT_RUNNING
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	NOT_RUNNING
Low raw value	1
High raw value	1
Status	RUNNING

3.8.1.26 NOT_RUNNING/RUNNING

0 is RUNNING
1 is NOT RUNNING

Field	Value
Curve identifier	000030
S2K identifier	1030
Short description	NOT_RUNNING
Long description	1 is NOT_RUNNING 0 is RUNNING
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0

Status	RUNNING
Low raw value	1
High raw value	1
Status	NOT_RUNNING

3.8.1.27 B/A

0 is A
1 is B

Field	Value
Curve identifier	000023
S2K identifier	1023
Short description	B
Long description	1 is B 0 is A
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	A
Low raw value	1
High raw value	1
Status	B

3.8.1.28 A/B

0 is B
1 is A

Field	Value
Curve identifier	000031
S2K identifier	1031
Short description	A

Long description	1 is A 0 is B
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	B
Low raw value	1
High raw value	1
Status	A

3.8.1.29 Tripped/OK

0 is OK
1 is Tripped

Field	Value
Curve identifier	000014
S2K identifier	1014
Short description	Tripped
Long description	1 is tripped 0 is OK
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	OK
Low raw value	1

High raw value	1
Status	Tripped

3.8.1.30 GO/NOGO

0 is NOGO
1 is GO

Field	Value
Curve identifier	000032
S2K identifier	1032
Short description	GO
Long description	1 is GO 0 is NOGO
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	NOGO
Low raw value	1
High raw value	1
Status	GO

3.8.1.31 NOGO/GO

0 is GO
1 is NOGO

Field	Value
Curve identifier	000033
S2K identifier	1033
Short description	NOGO
Long description	1 is NOGO 0 is GO
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or	NULL

polynomial or logarithm)	
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	GO
Low raw value	1
High raw value	1
Status	NOGO

3.8.1.32 SET/RESET

0 is RESET
1 is SET

Field	Value
Curve identifier	000034
S2K identifier	1034
Short description	SET
Long description	1 is SET 0 is RESET
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	RESET
Low raw value	1
High raw value	1
Status	SET

3.8.1.33 RESET/SET

0 is SET
1 is RESET

Field	Value
Curve identifier	000035
S2K identifier	1035
Short description	RESET
Long description	1 is RESET 0 is SET
Type (analogue or digital)	Digital
Sub-type for analogue type (Discrete or polynomial or logarithm)	NULL
Unit	NULL
TM or TC or both flag	Both flag
Raw format	Unsigned integer

Field	Value
Low raw value	0
High raw value	0
Status	SET
Low raw value	1
High raw value	1
Status	RESET

3.8.2 Discrete Analogue curve

Not identified

3.8.3 Logarithm curve equation data

Not identified

3.8.4 Polynomial Curves

3.8.4.1 Thermistor Type GB42

This curve was been calculated using the Resistance Temperature Relationship Table for Thermistor type GB42 on Annex 1.

Field	Value
Curve identifier	000011
S2K identifier	1011
Short description	Curve_GB42
Long description	This curve was been calculated using the Resistance Temperature Relationship Table for Thermistor type GB42 see annex, the range [-40, +85ºC] is specify on the GDIR (version 4.1) H-P-1-ASPI-SP-0027 RD2
Type (analogue or digital)	Analogue
Sub-type for analogue type (Discrete or polynomial or logarithm)	Polynomial
Unit	Celsius degree
TM or TC or both flag	Both flag

Field	Value
a0	39591.1
a1	-2075.9885
a2	76.196331
a3	-1.3738253
a4	0.0084341711

3.8.4.2 Thermistor for Platinum Probe 2k 118MF

This curve was been calculated using the Resistance Temperature Relationship Table for Platinum Probe 2k 118MF on Annex 2.

Field	Value
Curve identifier	000012
S2K identifier	1012
Short description	Curve_118MF
Long description	This curve was been calculated using the Resistance Temperature Relationship Table for Platinum Probe 2k 118MF see annex.
Type (analogue or digital)	Analogue
Sub-type for analogue type (Discrete or polynomial or logarithm)	Polynomial
Unit	Celsius degree
TM or TC or both flag	Both flag

Field	Value
a0	2006.6819
a1	7.6518368
a2	-0.0038691002
a3	2.5054358e-005
a4	1.4419967e-007

3.9 Displays

3.9.1 Alphanumeric display data

Not identified

3.9.2 Graphic display data

Not identified

3.9.3 Scrolling Display

Not identified

3.9.4 Variable SCOS packet display data

Not identified

3.10 Constants

3.10.1 Constants

Not identified

4. UPDATING GENERIC BOX CONTENTS PROCESS

The contents of a generic box has been defined taking into accound the present knowledge of spacecraf development.

It is foreseen to keep the contents of generic box in line with the HPSDB users needs. For this purpose, HPSDB users are invited to submit to HPSDB manager approval updates of generic box contents with general purpose scope.

5. ANNEX 1

-40	371300
-39	349700
-38	329400
-37	310500
-36	292800
-35	276200
-34	260700
-33	246000
-32	232400
-31	219500
-30	207500
-29	196100
-28	185400
-27	175500
-26	166100
-25	157200
-24	148800
-23	141000
-22	133600
-21	126700
-20	120100
-19	114000
-18	108200
-17	102700
-16	97490
-15	92600
-14	87980
-13	83630
-12	79520
-11	75620
-10	71940
-9	68640
-8	65160
-7	62060
-6	59100
-5	56310
-4	53670
-3	51170
-2	48800
-1	46550
0	44420
1	42390

2	40490
3	38660
4	36930
5	35300
6	33740
7	32250
8	30840
9	29510
10	28230
11	27020
12	25860
13	24770
14	23720
15	22730
16	21780
17	20870
18	20010
19	19190
20	18410
21	17660
22	16950
23	16280
24	15620
25	15000
26	14410
27	13840
28	13310
29	12790
30	12300
31	11820
32	11370
33	10940
34	10530
35	10130
36	9756
37	9393
38	9047
39	8715
40	8397
41	8093
42	7800
43	7521
44	7253

45	6995
46	6747
47	6510
48	6282
49	6065
50	5855
51	5654
52	5460
53	5274
54	5096
55	4923
56	4758
57	4599
58	4448
59	4301
60	4160
61	4025
62	3894
63	3768
64	3647
65	3531
66	3419
67	3311
68	3206
69	3105
70	3009
71	2916
72	2826
73	2739
74	2657
75	2576
76	2498
77	2423
78	2351
79	2280
80	2213
81	2148
82	2085
83	2024
84	1965
85	1908

Annex Table 1 - Resistance Temperature Relationship Table for Thermistor type GB42

(See RD2 and RD3)

6. ANNEX 2

Temp (ºC)	P.P. Resistance (2000 OHMS)
-260	5,41
-240	50,43
-220	179,5
-200	345,62
-180	519,4
-160	692,06
-140	862,06
-120	1029,62
-100	1195,12
-80	1358,89
-60	1521,16
-40	1682,04
-20	1841,64
0	2000
20	2157,23
40	2313,56
60	2468,99
80	2623,54
100	2777,2
120	2929,98

Annex Table 2 - Resistance Temperature Relationship Table for Platinum Probe 2k 118MF

(see RD4)

END OF THE DOCUMENT