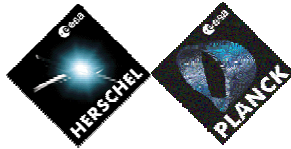




Herschel/Planck
HPSDB Release Note
Object name: HERSCH_FM9
(CCS Files - AIT Filter)
Product Code: 460000

<i>Written by</i>	<i>Responsibility</i>
S. Dos Santos	Data Base Manager
<i>Verified by</i>	
J Vila Lobos	Data Base Manager
F. Chatte	Ground Segment Interface and Operation Manager
F. Sauvage	Command / Control Manager
P. Rideau	HP System Engineer Manager
Y. Roche	Herschel engineering Manager
F. Bernat	PA Software
D. Montet	Herschel Satellite Manager
<i>Approved by</i>	
J.M. Reix	Deputy Project Manager



DISTRIBUTION RECORD

DOCUMENT NUMBER : H-P-3-ASP-LI-1441		Issue : 6.0	
		Date: 12/12/2007	
EXTERNAL DISTRIBUTION		INTERNAL DISTRIBUTION	
ESA	X	HP team	X
ASTRIUM	X	ESOC	
ALCATEL ALENIA SPACE - Italia			
CONTRAVES			
TICRA			
TECNOLOGICA			
		Clf Documentation	Orig.

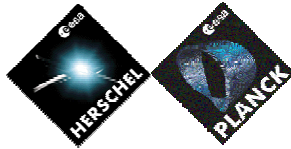


ISSUE	DATE	§ CHANGE RECORDS	AUTHOR
1.0	10/10/2007	<ul style="list-style-type: none"> ValDatReq 116-Herschel <ul style="list-style-type: none"> DBAMN-H-208 – Loading IEGSE only for HIFI, PACS, EGSE DBAMN-H-209 – Loading CDMU OBSW v3.1 and ACMS OBSW v3.7 DBAMN-H-211 - Loading CCU ASER-003 and System CCU updates DBAMN-H-212 - Change of short and long description for ACMS A105, CDMS D109 and SPIRE S002 to reflect software version 	J Vila-Lobos
2.0	22/10/07	<ul style="list-style-type: none"> ValDatReq 119-Herschel <ul style="list-style-type: none"> DBAMN-H-215 - SCO.DAT and TCD.DAT to be modified for FM CRYOSCOE connection/changes (Refer to mail from Luigi Allegretti) 	J Vila-Lobos
3.0	25/10/07	<ul style="list-style-type: none"> ValDatReq TBD <ul style="list-style-type: none"> DBAMN-H-216 - Inserting all lines for TCD.DAT except the PFM_CRYO 2026 	J Vila-Lobos
4.0	08/11/07	<ul style="list-style-type: none"> ValDatReq 120-Herschel <ul style="list-style-type: none"> DBAMN-H-217 - Loading OBCP delivery 6 	J Vila-Lobos
5.0	29/11/07	<ul style="list-style-type: none"> ValDatReq 121-Herschel <ul style="list-style-type: none"> DBAMN-H-218 - Loading HIFI v11_3 ValDatReq 122-Herschel <ul style="list-style-type: none"> DBAMN-H-220 - Loading SPIRE v2_2_G7 ValDatReq 123-Herschel <ul style="list-style-type: none"> DBAMN-H-221 - Loading SVM data Li0052 issue 12 (CDMS 3.1.2) DBAMN-H-223 - System input (CCU) ValDatReq 124-Herschel <ul style="list-style-type: none"> DBAMN-H-222 - Loading OBCP V7 in object OBCP_J ValDatReq 125-Herschel <ul style="list-style-type: none"> DBAMN-H-224 - Re-Loading HIFI v11_3, SPIRE 2_2_G7 and deletion of "extra" packets (not deleted by XML reload operation) 	J Vila-Lobos
6.0	12/12/2007	<ul style="list-style-type: none"> ValDatReq 127-H <ul style="list-style-type: none"> DBAMN-H-227 Change TC SubSchedule See details on chapter 6- DBAMN DBAMN-H-228-NCR 3810 Correction- Cryostat -add OPS filter to monitoring and DLCM Structures. DBAMN-H- 229 New OBCP v 8.0 DBAMN-H-230 DBAMN-G-001 All TC are switch from "ground high priority" to "ground low priority" by default. ValDatReq 128-H <ul style="list-style-type: none"> DBMN-H-231 Modification of STR velocity commanding according to ESOC requirement. ValDatReq N/A <ul style="list-style-type: none"> DBMN-H-232 Distribution of Kryo Data to HIEGSE 	S Dos Santos



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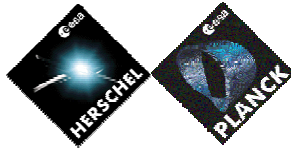
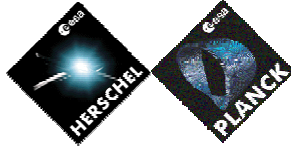


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1. INTRODUCTION

From: Central Site HPSDB v 3.3.1.28

To: ASED (Friedrichshafen – Germany)

Object: Theoretical Model HERSCH_FM9

File Type: CCS

Filter: AIT User

File: R_TM_HERSCH_FM9_C_712121745_M.zip

Date- 2007/12/12

Reason: Test new OBCP version 8.0, before transferring Herschel Satellite to ESTEC.

2. CONFIGURATION ITEM

Number: 460000

Name: HPSDB – Data: Theoretical Model HERSCH_FM9

3. SUPPLIER NAME

Thales Alenia Space – France

4. APPROVED BY

Refer to cover page

5. INPUT

Generic Data [RD1]	Level: Generic
Bus Profile - see [RD3]	Level: Element
OBCP – see [RD4]	Level: Element
HIFI - see [RD5]	Level: Subsystem
SPIRE - see [RD6]	Level: Subsystem
PACS - see [RD7]	Level: Subsystem
Cryostat - see [RD8]	Level: Subsystem
SVM - see [RD9]	Level: Model
System – see [RD10]	Level: Model

5.1 Input - Missing Data

None

5.2 Input – Changes

5.2.1 Generic Data [RD1]

None

5.2.2 HIEGSE [RD2]

NCR - 3666 – Open

Files format's not compatible with Windows

NCR – 3668 – Open

Extra spaces on cpc.dat

NCR – 3669 – Open

Missing tpcf.dat in IEGSE delivery

5.2.3 Bus Profile [RD3]

None

5.2.4 OBCP [RD4]

None

5.2.5 HIFI subsystem [RD5]

None

5.2.6 SPIRE subsystem [RD6]

None

5.2.7 PACS subsystem [RD7]

None

5.2.8 CRYOSTAT subsystem [RD8]

NCR 3810- Creation

Missing CCU data in PLF file for OPS Users.

5.2.9 SVM system [RD9]

NCR's 3297/3317/3318 – Open

Addition of missing calibrations via dedicated XML file (ACMS Calibration.xml)

5.2.10 System data [RD10]

None

5.2.11 TM Packet Routing Tmd.dat

Monitoring data from the following subsystems distributed to:

	distributed to		
	HHIFIEGSE	HPACSEGSE	HSPIREEGSE
HIFI	x		
PACS		x	
SPIRE			x
CCU Monitoring	x	x	x
CRYO SCOE	x	x	x

5.2.12 TC Packet Routing Tcd.dat

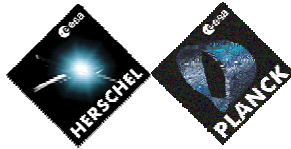
HPSDB tcd configuration for HERSCH_FM9

APID	EQUIPMENT
0	TMTCDFE
16	TMTCDFE
512	TMTCDFE
1024	TMTCDFE
1152	TMTCDFE
1280	TMTCDFE
2017	CDMUSCOE
2018	ACMSSCOE
2019	TTCSCOE
2020	TMTCDFE
2023	BSSCOE
2026	PFM_CRYO
2024	SASLPSSCOE
2042	HHIFIEGSE
2043	HPACSEGSE
2044	HSPIREEGSE



6. DBAMN

DBAMN Herschel	Number	Issue	Description	Impacted Boxes
HERSCHEL VALIDATION REQUEST 127				
DBAMN-H-227	227	1.0	Change the default sub schedule values requested by ESOC requirements: <ul style="list-style-type: none"> • "10" for CDMS and model telecommands except SREM • "20" for ACMS telecommands • "50" for SREM telecommands • "70" for HIFI telecommands • "90" for PACS telecommands • "370" for SPIRE telecommands 	Theoretical Elements: PACS_DPU_N PACS_SPUL_N PACS_SPUS_N PACS_BOL_N PACS_DMC_N SPIRE_OBS_N SPIRE_DPU_N SPIRE_MCU_N ACC_A_C_4 ACC_A_H_4 ACC_BSW_COM ACC_BSW_HER COM_BSW_ACC CDMU_B_C_9 CDMU_B_H_9 CDMU_A_C_9 COM_B_C_9 OBCP_J H_DEF_BPRO6 Theoretical Subsystems H004 D109 A105 Theoretical Models HERSCH_FM9
DBAMN-H-228	228		CCU Data Visible by OPS filter (NCR 3810)	Theoretical Elements: CCU_A CCU_B Theoretical Subsystem K002
DBAMN-H-229	229		New OBCP Herschel v8.0	Theoretical Element OBCP_J
DBAMN-H-230	230		Low-High Priority EGSE TC's all references to TC header have been modified from GX000000 to GX004000	BUSMONS CDMUSCOE TMTCDFE CCS AS_UIFE_4 PFM_CRYO AS_MILFE_4 BSSCOE



				SASLPSSCOE AS_SIM_4 TTCSCOE AS_PSEUDO_4 HSPiREEGSE HPACSEGSE HHIFIEGSE
HERSCHEL VALIDATION REQUEST 128				
DBAMN-H-231	231		Modification of STR velocity commanding according to ESOC requirement.	Theoretical Element: ACC_A_C_9 Theoretical subsystem A105
NO VALIDATION REQUEST IS NECESSARY				
DBAMN-H-232	232		Distribution of Kryo Data to HIEGSE	TMD.DAT

7. OUTPUT

7.1 Output-File

7.1.1 Output-File Data

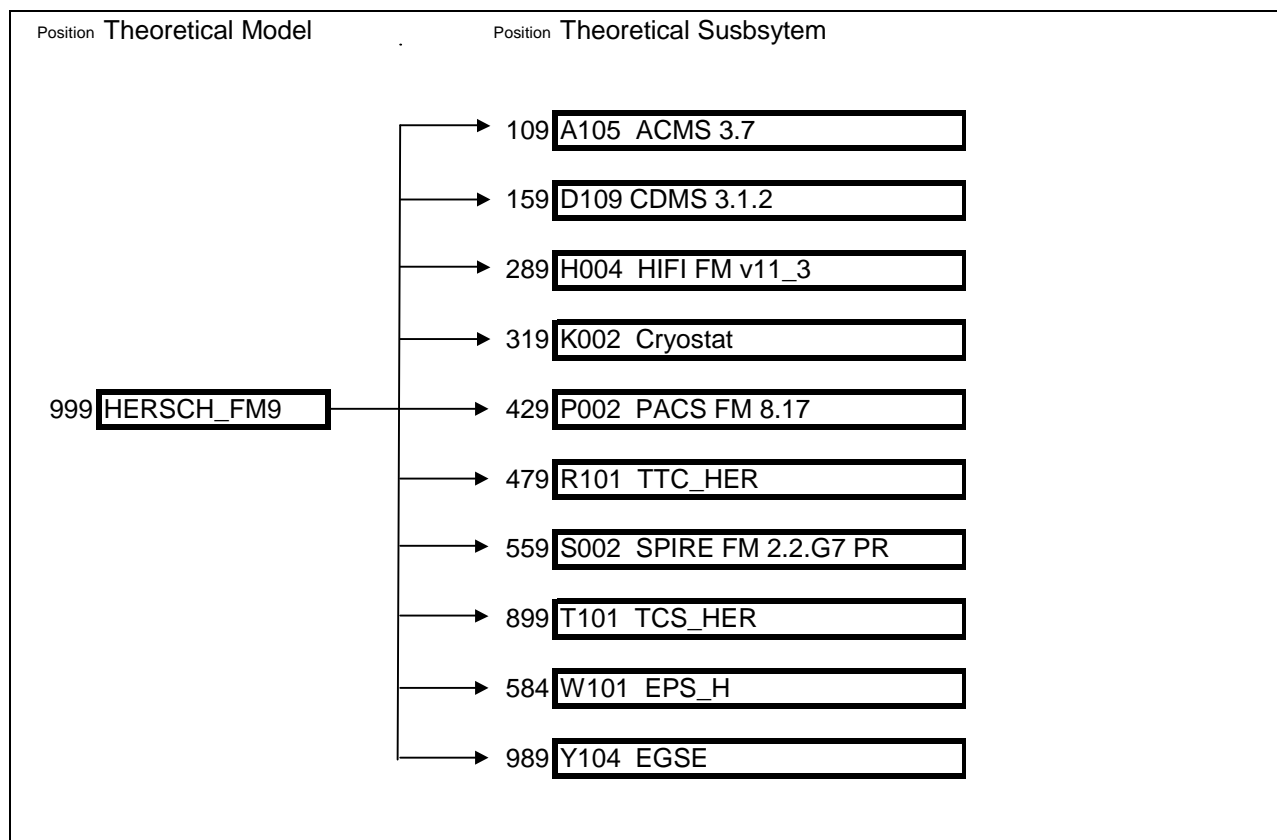


Figure 1 - Model HERSCH_FM9

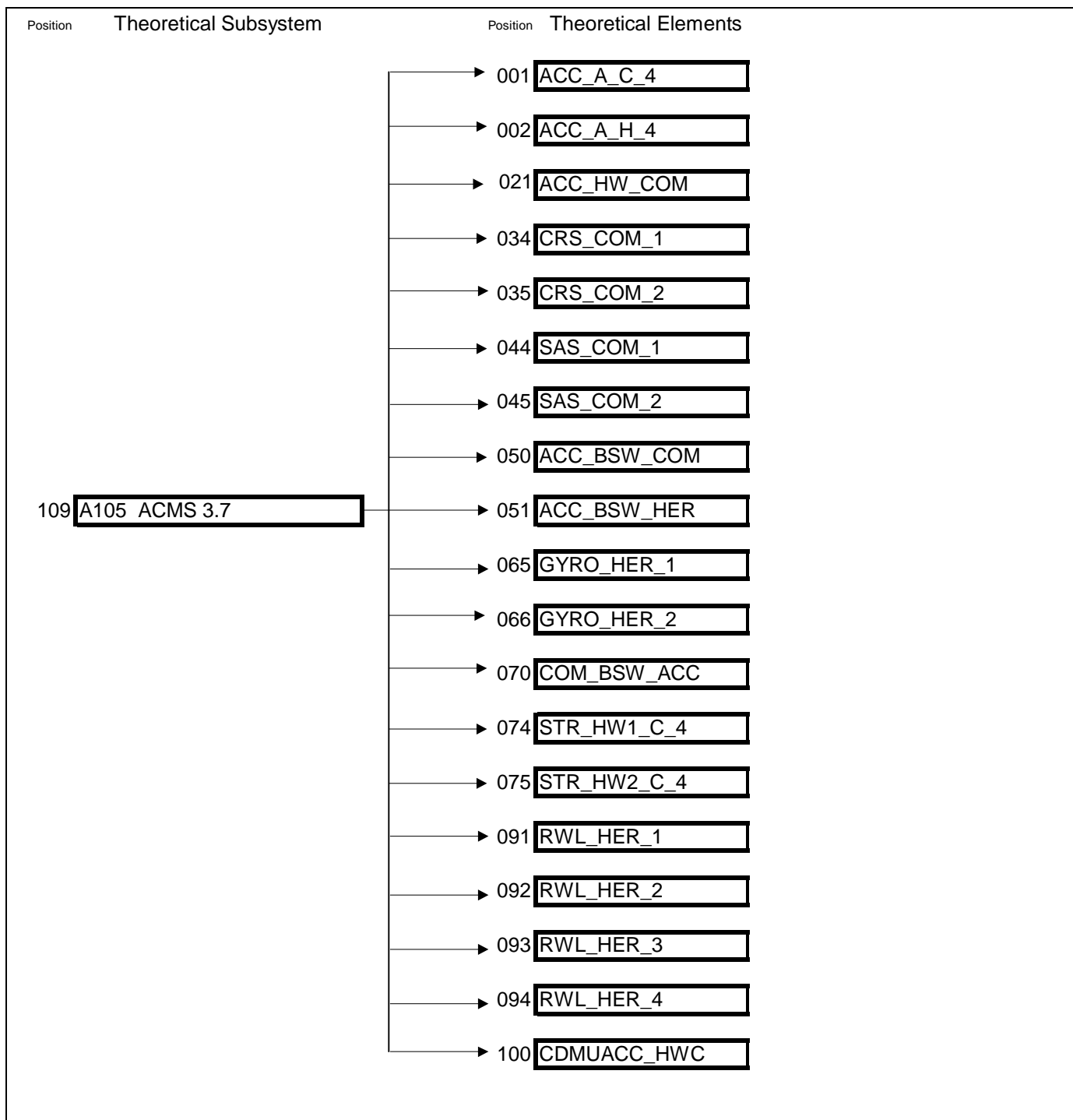
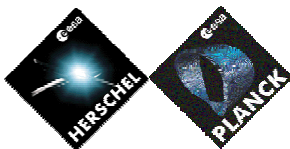


Figure 2 - Theoretical Subsystem A105

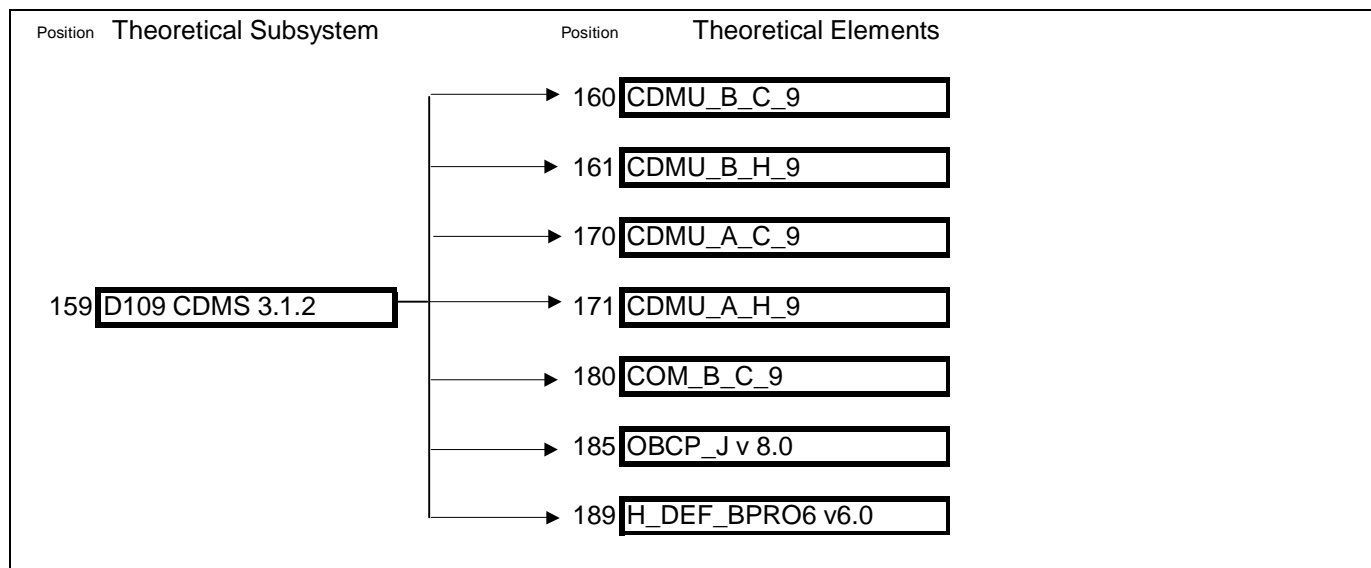


Figure 3 – Theoretical Subsystem D109

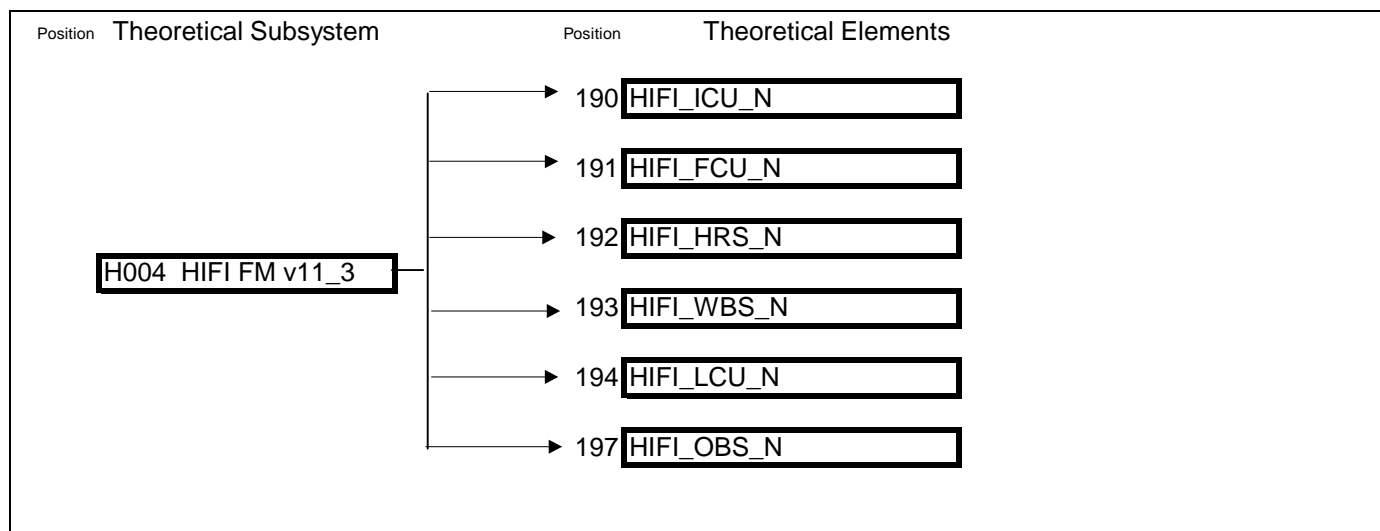


Figure 4 - Theoretical Subsystem H004 (HIFI)

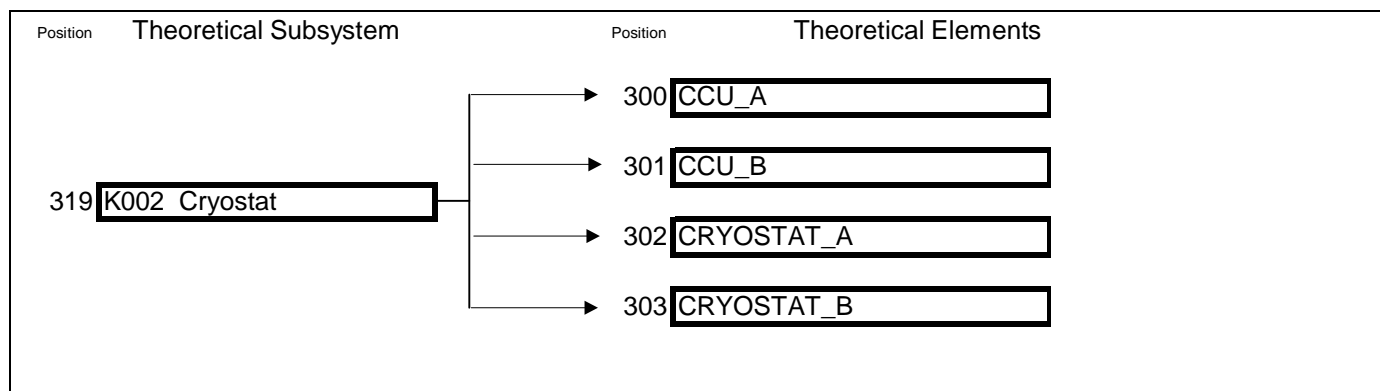


Figure 5 – Theoretical Subsystem K002 (Cryostat)

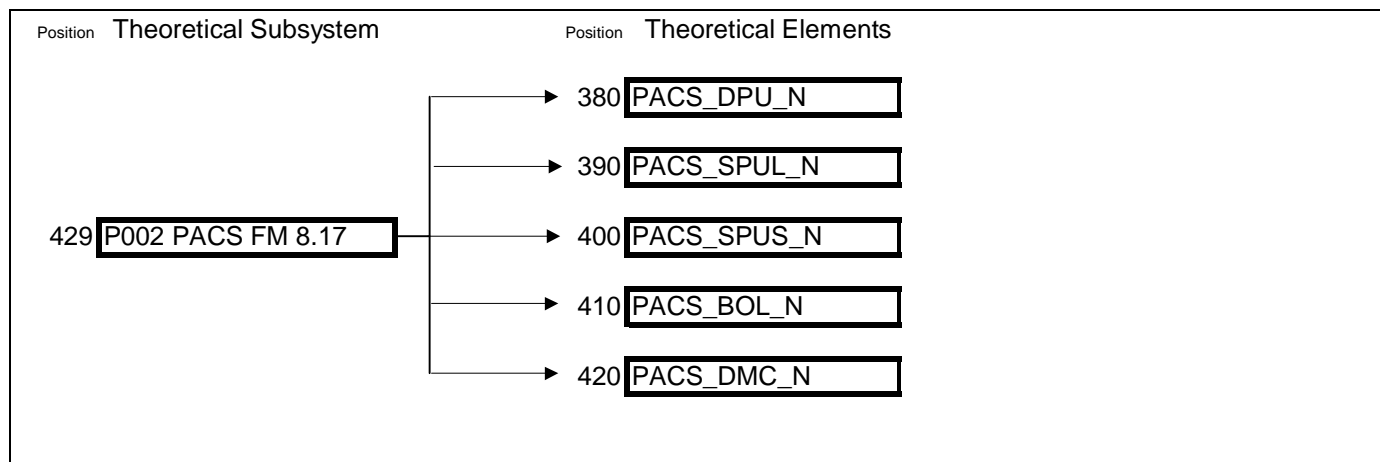


Figure 6 - Theoretical Subsystem P002 (PACS)

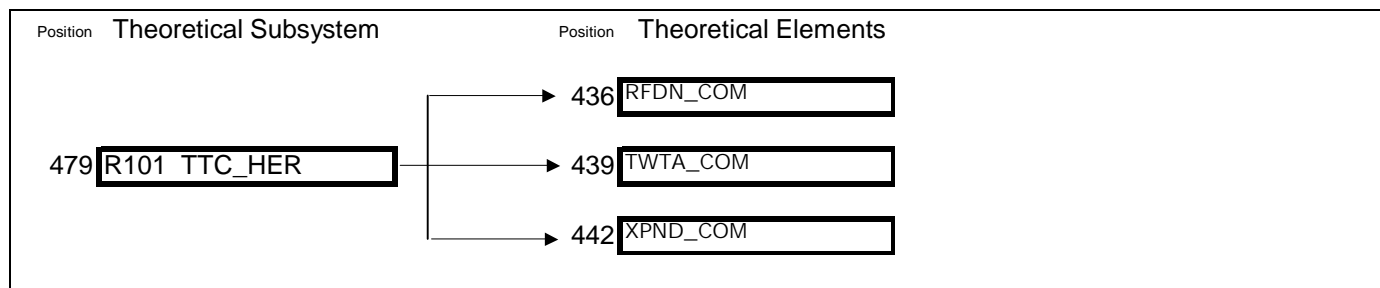


Figure 7 - Theoretical Subsystem R101 (Radio Frequency)

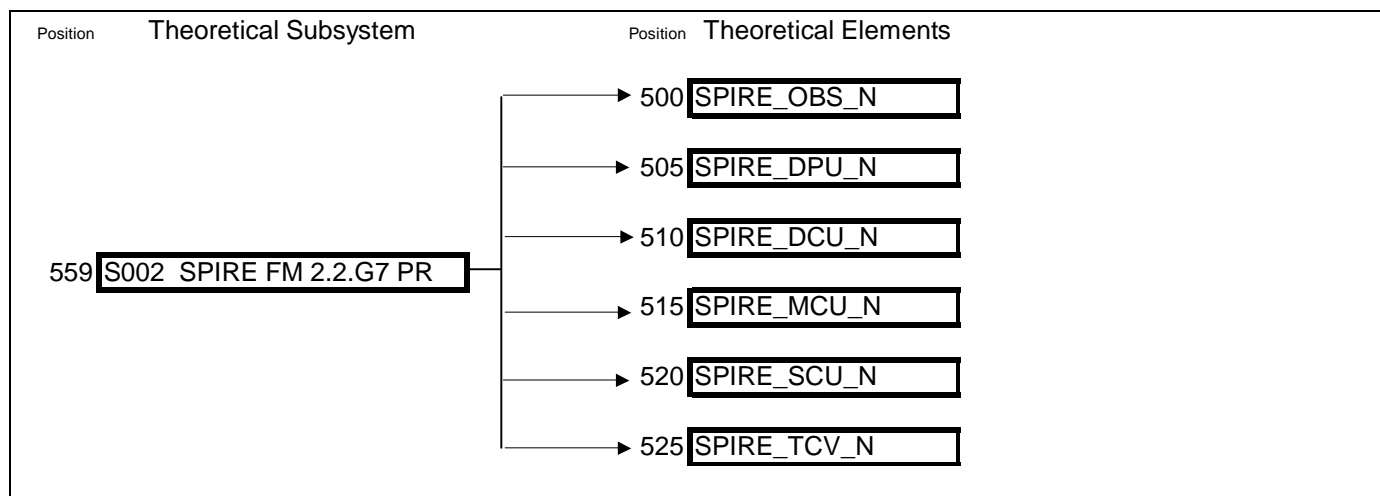


Figure 8 - Theoretical Subsystem S002(SPIRE)

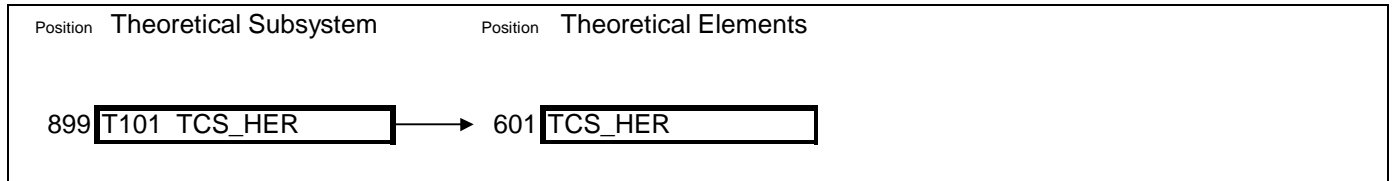


Figure 9 - Theoretical Subsystem T101 (Thermal)

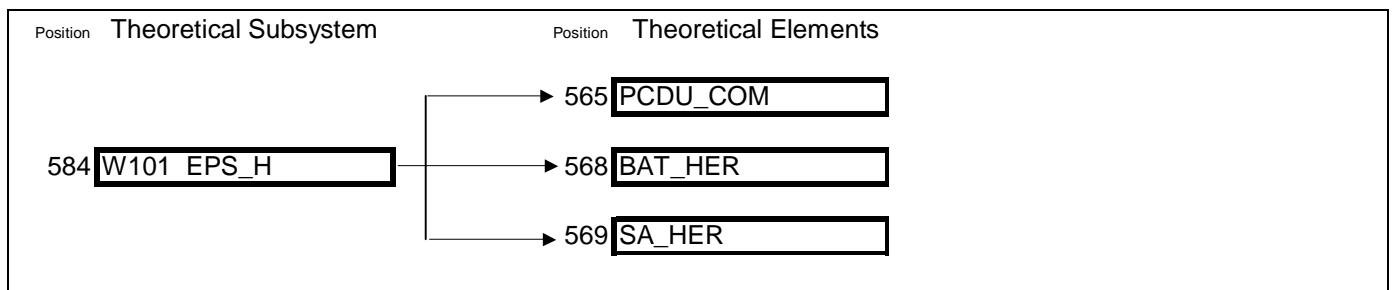


Figure 10- Theoretical Subsystem W101 (Power)

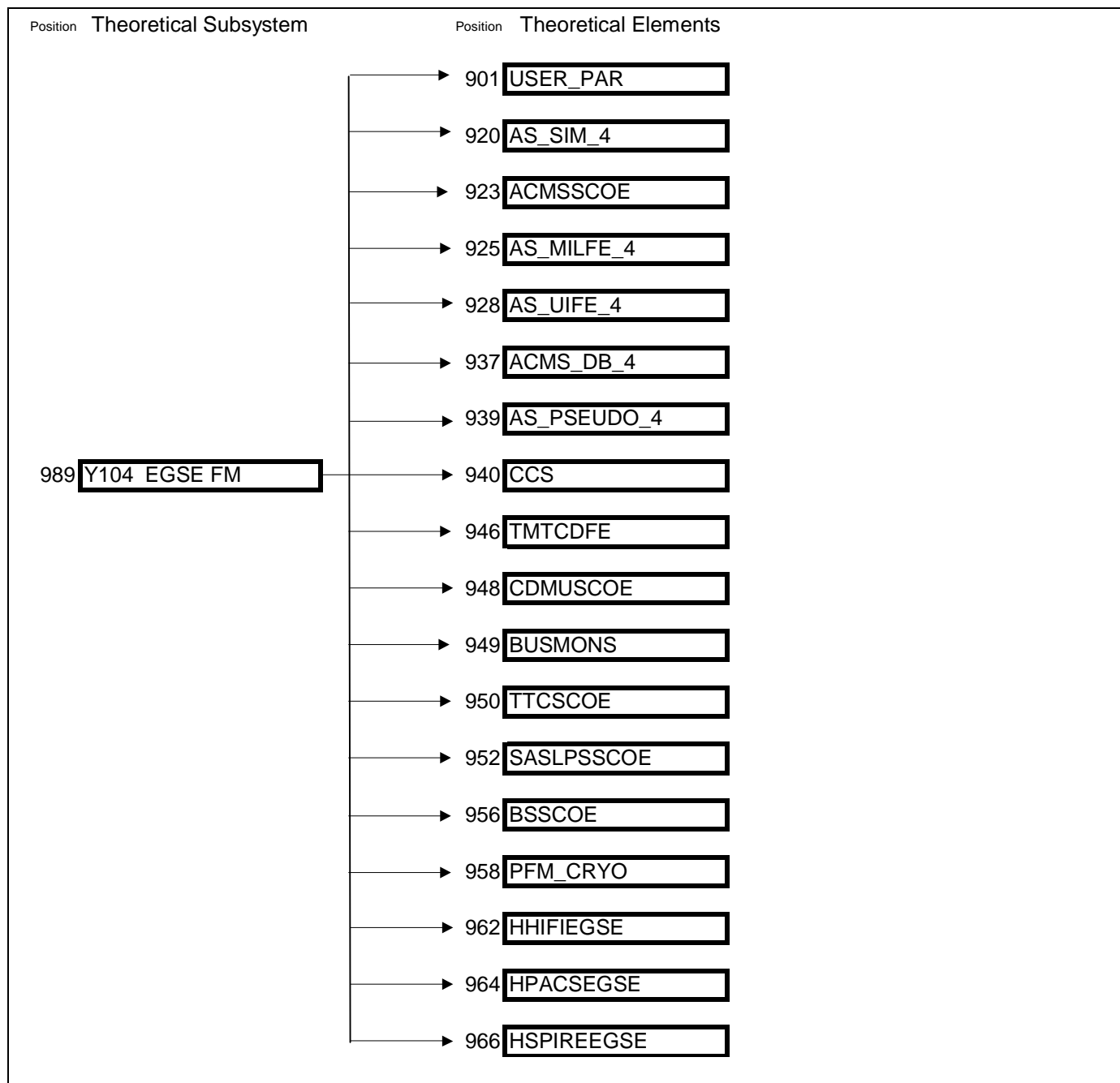


Figure 11- Theoretical Subsystem Y104 (EGSE)

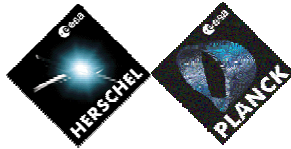
7.1.2 Output-File Changes

ValDatReq N/A

DBMN-H-232 Distribution of Kryo Data to HIEGSE

Due to an NCR -3831 - The following lines have been added manually to the tmd.dat:

```
260140999 HPACSEGSE
260141999 HPACSEGSE
260143999 HPACSEGSE
260144999 HPACSEGSE
```



260140999 HSPIREEGSE
260141999 HSPIREEGSE
260143999 HSPIREEGSE
260144999 HSPIREEGSE
260140999 HHIFIEGSE
260141999 HHIFIEGSE
260143999 HHIFIEGSE
260144999 HHIFIEGSE

7.2 Output-File compliance

[AD1] and [AD2]

7.2.1 Output File Type

CCS Files [(AD1)]

7.2.2 HPSDB Version

HPSDB 3.3.1.28

7.3 Version/Release Number

H-P-2-ASP-LI-1441 v 06.0

7.4 Generation Date

12/12/2007

7.5 Checksum Type

MD5

7.6 Checksum Value

fff2d6d516c64d616c7891c214a886b6

7.7 Delivered Files

This delivery (one unique zip file: H-P-2-ASP-LI-1441_issue06.zip) contains 10 files:

1. A pdf document: this release note H-P-2-ASP-LI-1441_issue06.pdf
2. A zip file generated by HPSDB: R_TM_HERSCH_FM9_C_712121745_M.zip

with the following convention:

- a. <Area>_<Box>_<Object name>_<MIB type>_<Date>_<M>.zip



Where <Area> is "R" for Reference area (configured)
 "A" for Archive area (configured)
 "W" for Working area (not configured by HPSDB)
 <Box> is "TE" for Theoretical Element
 "TR" for Real Element
 "TS" for Theoretical Subsystem
 "TR" for Real Subsystem
 "TM" for Theoretical Model
 "RM" for Real Model
 <Object name> is the data base object unique (with <Box>) identifier
 <MIB type> is "C" for CCS MIB files
 "S" for S2K MIB files
 "M" for MCS MIB files
 <Date> is <Y><MM><DD><HH><MN> for date of generation
 <M>- (Optional) Indicates if there are manual updates

3. [RD1]
4. [RD3]
5. [RD4]
6. [RD5]
7. [RD6]
8. [RD7]
9. [RD9]
- 10.[RD10]

8. APPLICABILITY

For Herschel Model including the following software:

- CDMS 3.1.2 and 3.1.3 [AIV Branch]
- ACMS 3.7 [PFM]
- PACS 8.17 [PFM]
- HIFI 11.3 [PFM]
- SPIRE 2.2.G7 PR [PFM]



9. APLICABLE AND REFERENCE DOCUMENTS

9.1 Applicable documents

AD	Title	Reference	Issue /version
[AD1]	CCS - external ICD	H-P-4-TE-ID-8020	01/08
[AD2]	Naming Convention	H-P-ASPI-SP-0141	02/02

9.2 Reference documents

RD	Title	Reference	Issue /version
[RD1]	Generic Data Collection	H-P-1-ASP-TN-0543	9.0
[RD2]	HIEGSE		
[RD3]	HPSDB/SW OBSW Interface Data Sheet	H-P-1-ASP-ID-0856	4.0
[RD4]	CIDL_HERSCHEL_OBCP	H-P-2-ASP-LI-1333	8.0
[RD5]	HIFI 11.3 release note	SRON-U/HIFI/SP/2006-003	11.3
[RD6]	SPIRE_MIB_FM_2.2.G7_PR_16Nov2007	SPIRE_MIB_FM_2.2.G7_PR_16Nov2007	FM_2.2.G7_PR
[RD7]	PACS V8.17 release note	RN_PACS_MIB_N_8_17	8.17
[RD8]	Cryostat		
[RD9]	Herschel SVM HPSDB CIDL	H-P-LI-AI-0052	12 .0
[RD10]	System	H-P-2-ASP-LI-1464	2.0

10. KNOWN PROBLEMS OR MISSING DATA

None

11. DELIVERY

Delivery set on FTP server on 12/12/07

Mail

- to
 - ASTRIUM (M. Koelle)
- Copy
 - ESA(L. Di Napoli)
 - TAS-I (D. Montet)

END OF DOCUMENT