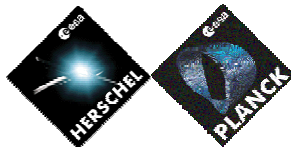


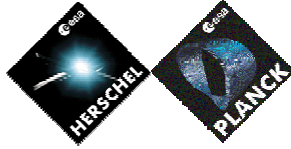
**Herschel/Planck**  
HPSDB Release Note  
Object name: HERSCHEL FM  
(CCS Files - AIT Filter)  
Product Code: 460000

<i>Written by</i>	<i>Responsibility</i>
S. Dos Santos	Data Base Manager
<i>Verified by</i>	
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

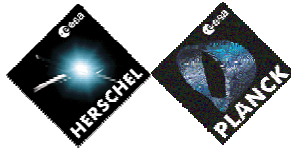


**DISTRIBUTION RECORD**

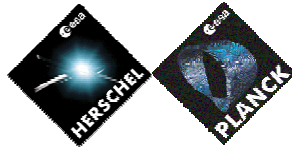
DOCUMENT NUMBER : H-P-3-ASP-LI-1441		Issue : 9.0	
		Date: 07/04/2008	
EXTERNAL DISTRIBUTION		INTERNAL DISTRIBUTION	
ESA	X	HP team	X
ASTRIUM	X	ESOC	
ALCATEL ALENIA SPACE - Italia			
CONTRAVES			
TICRA			
TECNOLOGICA			
		Clf Documentation	Orig.



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

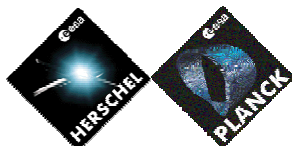


ISSUE	DATE	§ CHANGE RECORDS	AUTHOR
7.0	25/02/2007	<ul style="list-style-type: none"> <li>• New TAS-I Delivery CIDL 13</li> <li>• New HIFI v 11.6</li> <li>• New SPIRE v 2.2 H1 PR</li> <li>• New OBCP v10.0</li> </ul>	S Dos Santos
		<ul style="list-style-type: none"> <li>• Add Annex NCR Status</li> </ul>	F Bernat
8.0 Draft 1	27/02/2008	<ul style="list-style-type: none"> <li>• Update Data NCR Status Annex</li> <li>• Update Chapter Know Problems or Missing Data</li> </ul>	F Bernat
9.0	07/04/2008	<ul style="list-style-type: none"> <li>• New TAS-I Delivery CDMS OBSW v 3.4</li> <li>• New OBCP v11.0</li> </ul>	S Dos Santos



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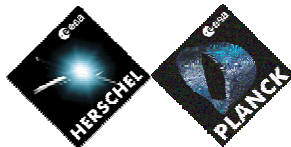


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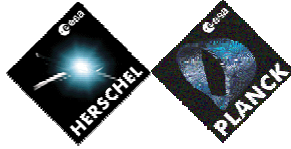
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## 1. INTRODUCTION

From: Central Site HPSDB v 3.3.1.30  
To: ASED (Friedrichshafen – Germany)  
Object: Theoretical Model HERSCH\_FM9  
File Type: CCS  
Filter: AIT User  
File: R\_TM\_HERSCH\_FM9\_C\_804071709.zip  
Date- 07/04/2008  
Reason: Herschel IRR  
Delivery including:

- New TAS-I Delivery CDMS OBSW v 3.14
- New OBCP v11

## 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

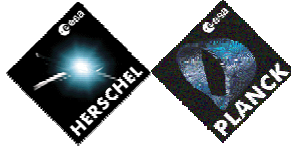
## 5. INPUT

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]

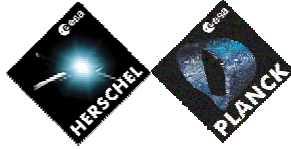
None

### 5.2.9 SVM system [RD9]

None

### 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

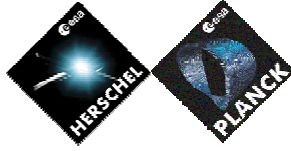
### 5.2.12 TC Packet Routing Tcd.dat

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	Description	Data Validation Request
DBAMN-H-271	New OBCP Version 11 for OBSW 3.4	143-Herschel
DBAMN-H-272	New CDMS 3.4	141-Herschel



## 7. OUTPUT

### 7.1 Output-File

#### 7.1.1 Output-File Data

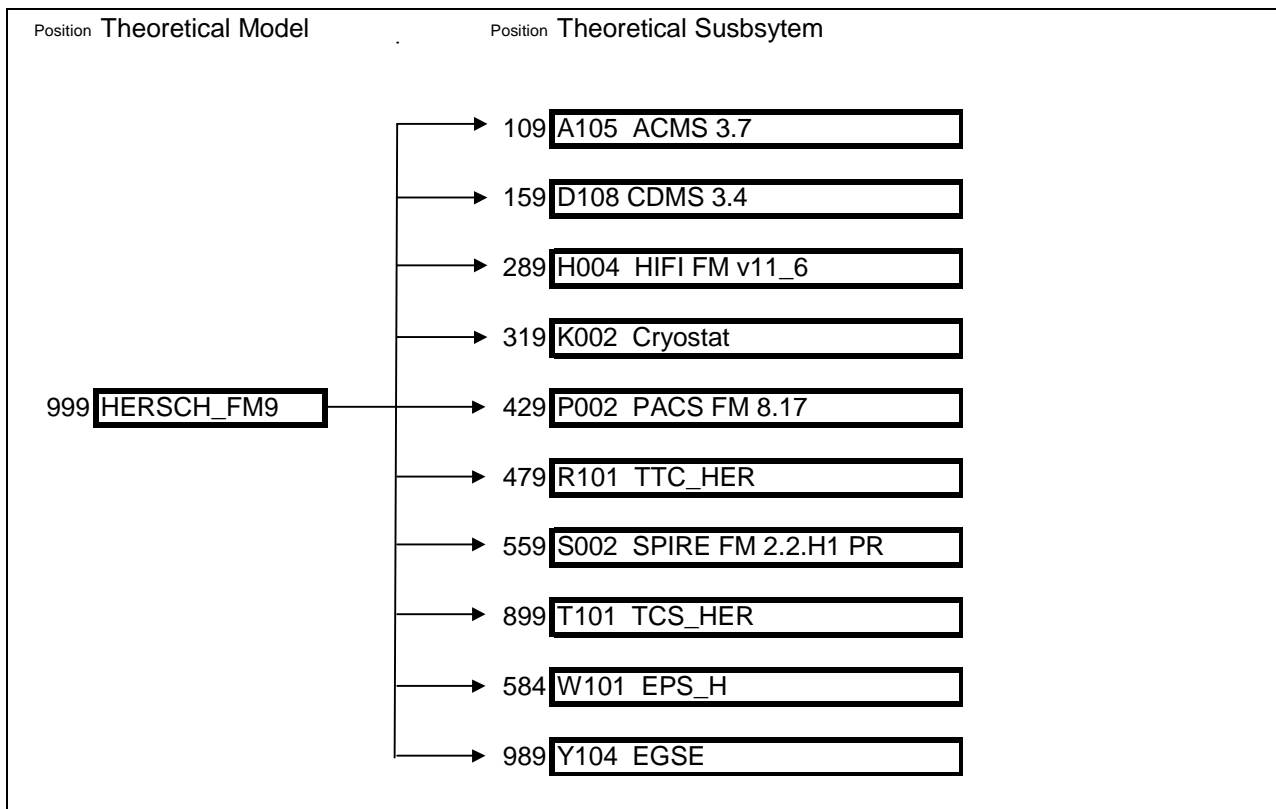


Figure 1 - Model HERSCH\_FM9

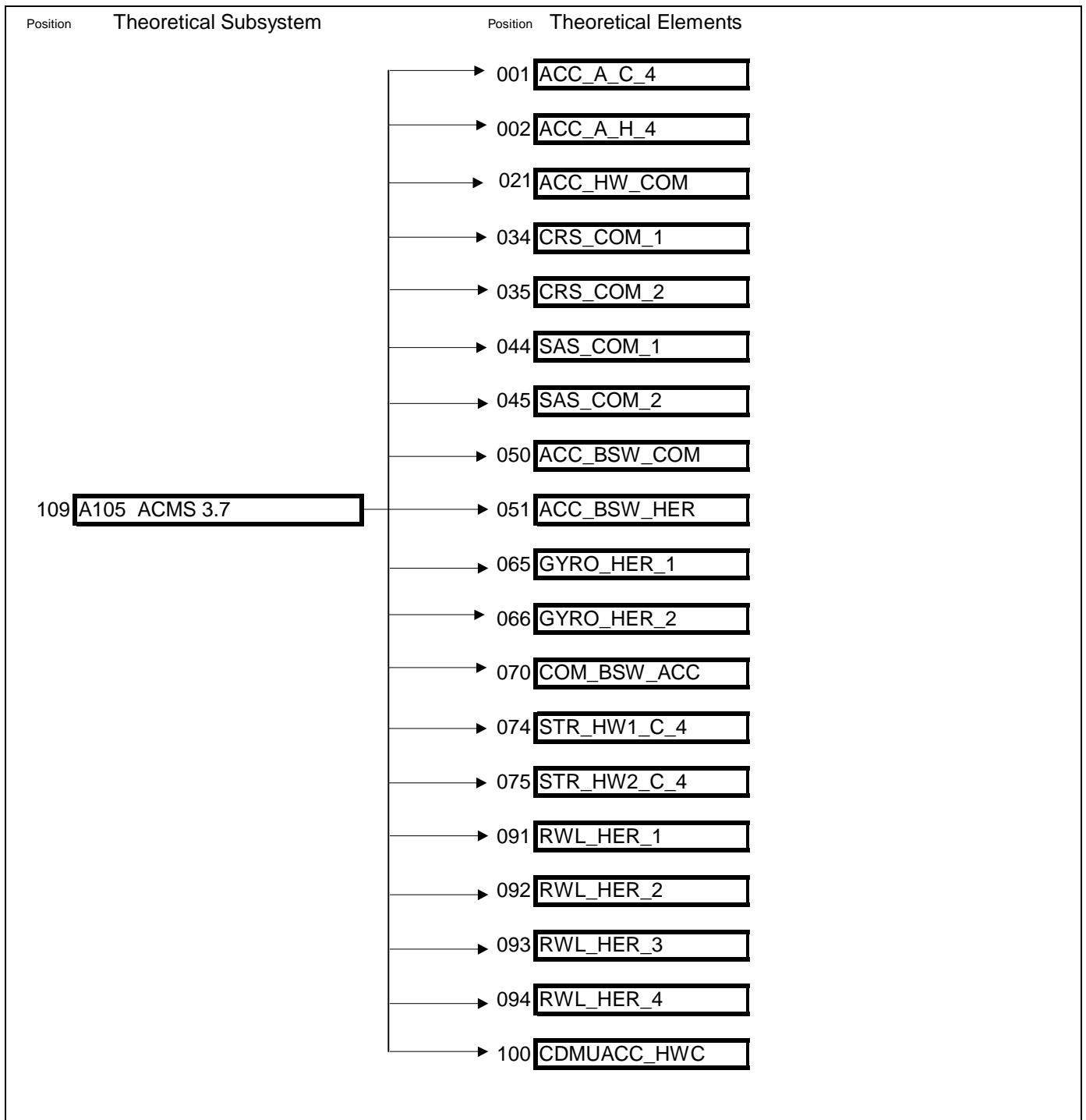
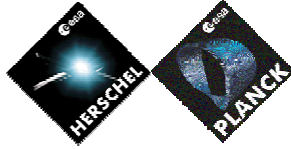


Figure 2 - Theoretical Subsystem A105

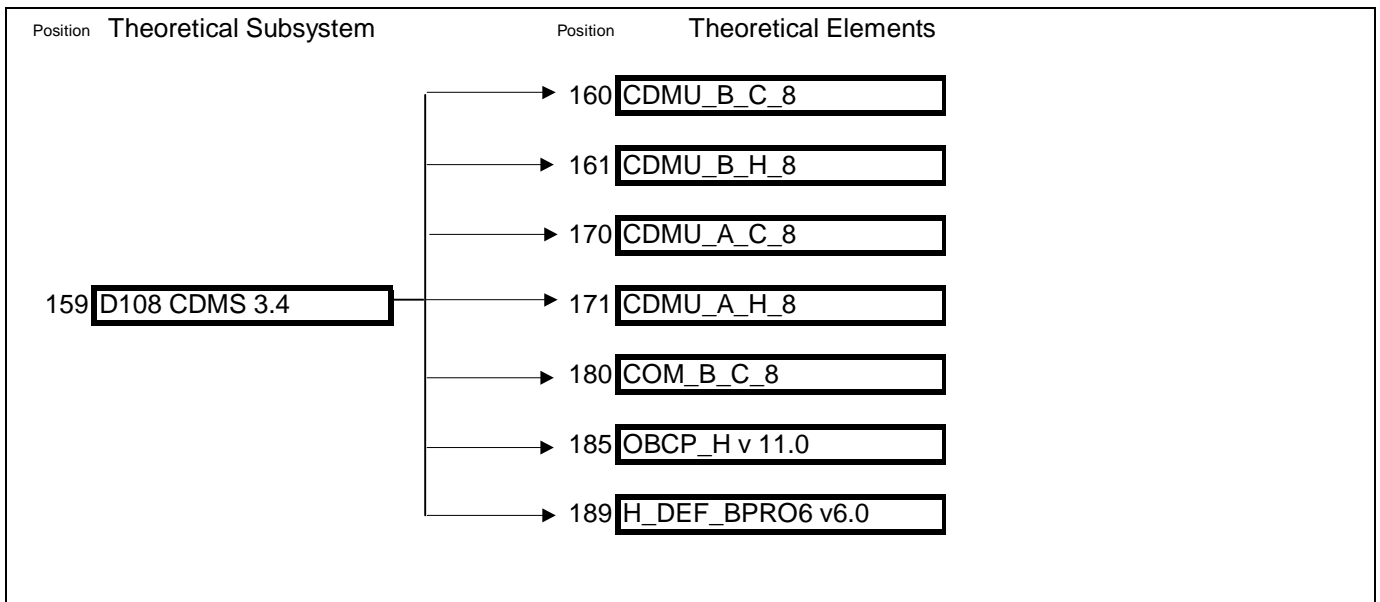
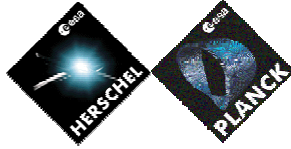


Figure 3 – Theoretical Subsystem D108

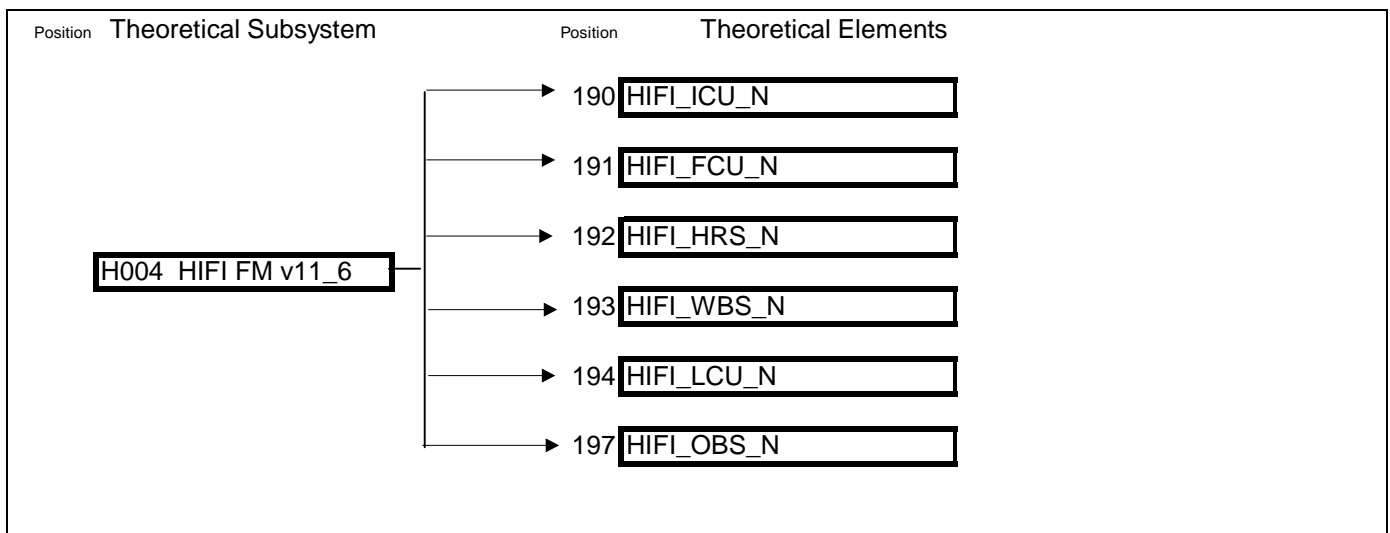


Figure 4 - Theoretical Subsystem H004 (HIFI)

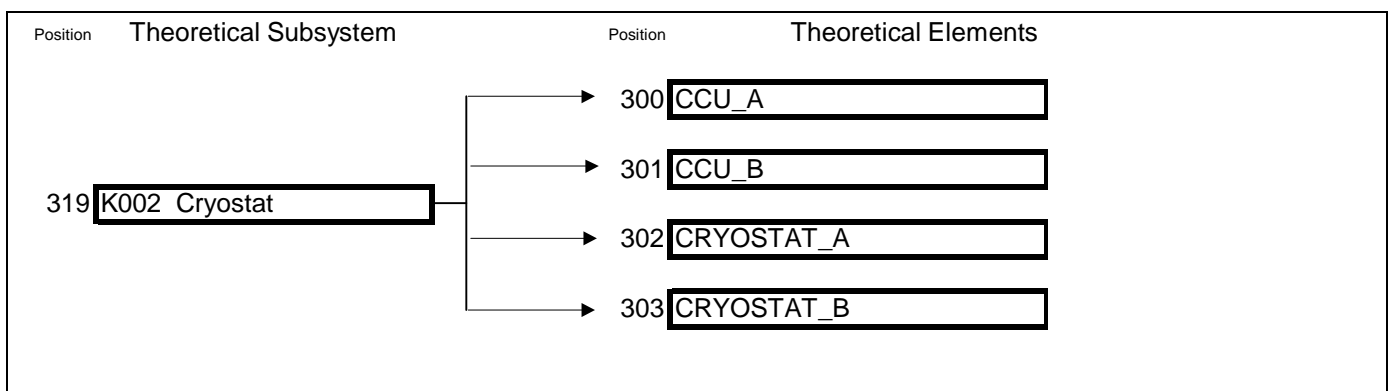


Figure 5 – Theoretical Subsystem K002 (Cryostat)

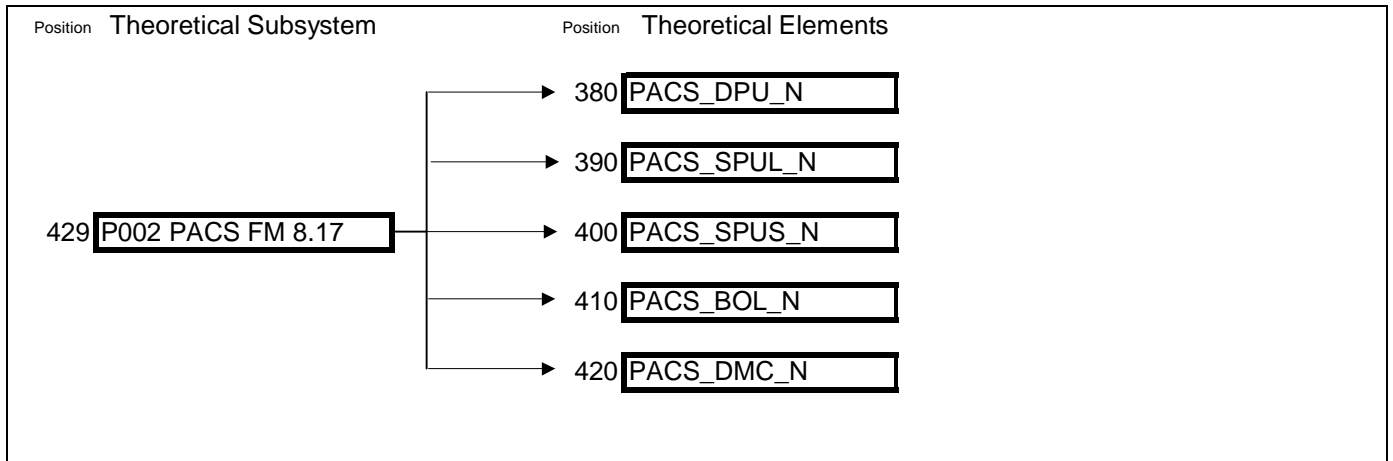
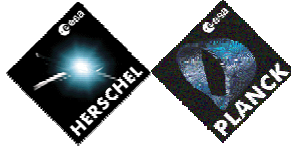


Figure 6 - Theoretical Subsystem P002 (PACS)

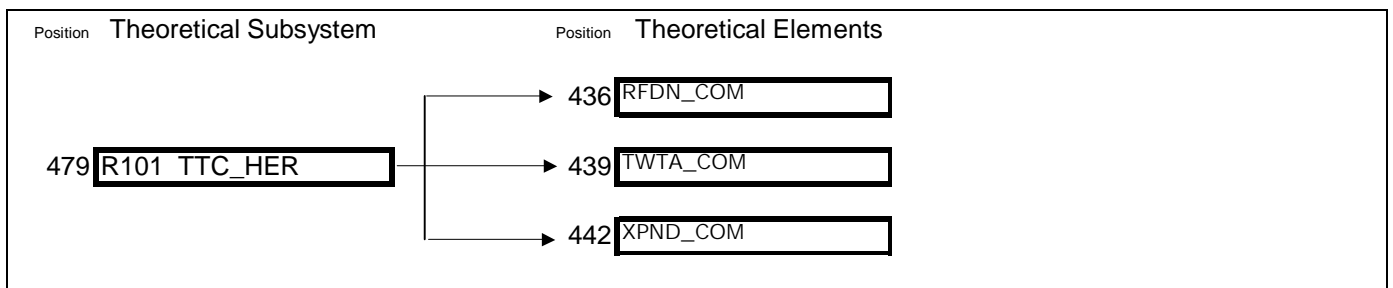


Figure 7 - Theoretical Subsystem R101 (Radio Frequency)

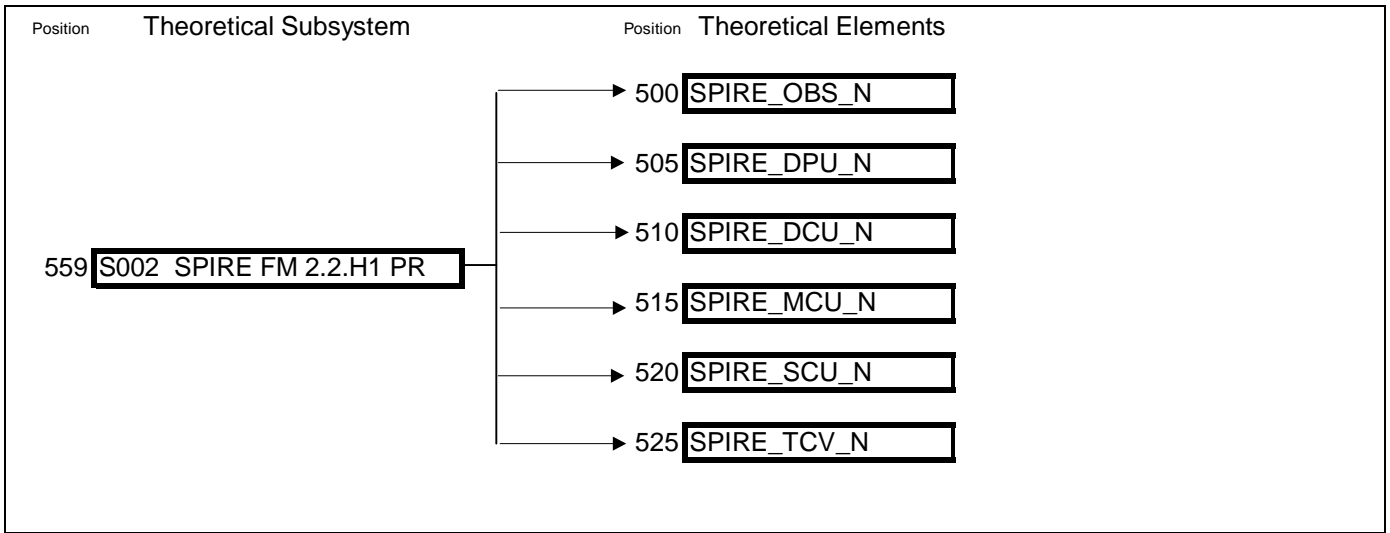
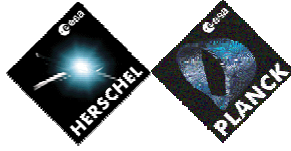


Figure 8 - Theoretical Subsystem S002(SPIRE)

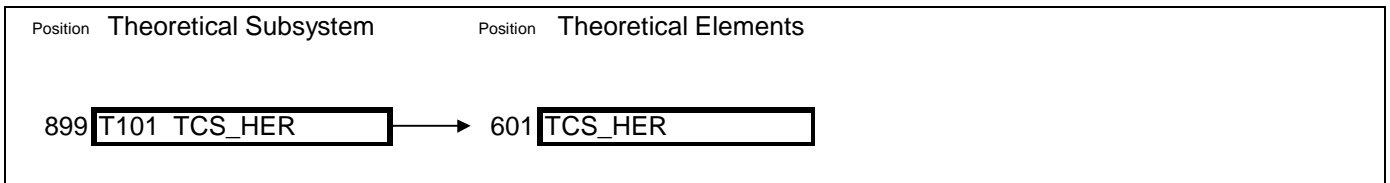


Figure 9 - Theoretical Subsystem T101 (Thermal)

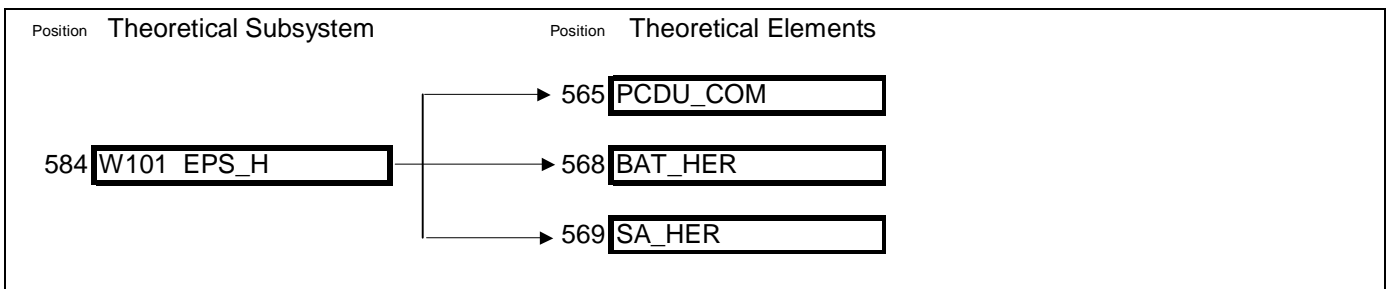


Figure 10- Theoretical Subsystem W101 (Power)

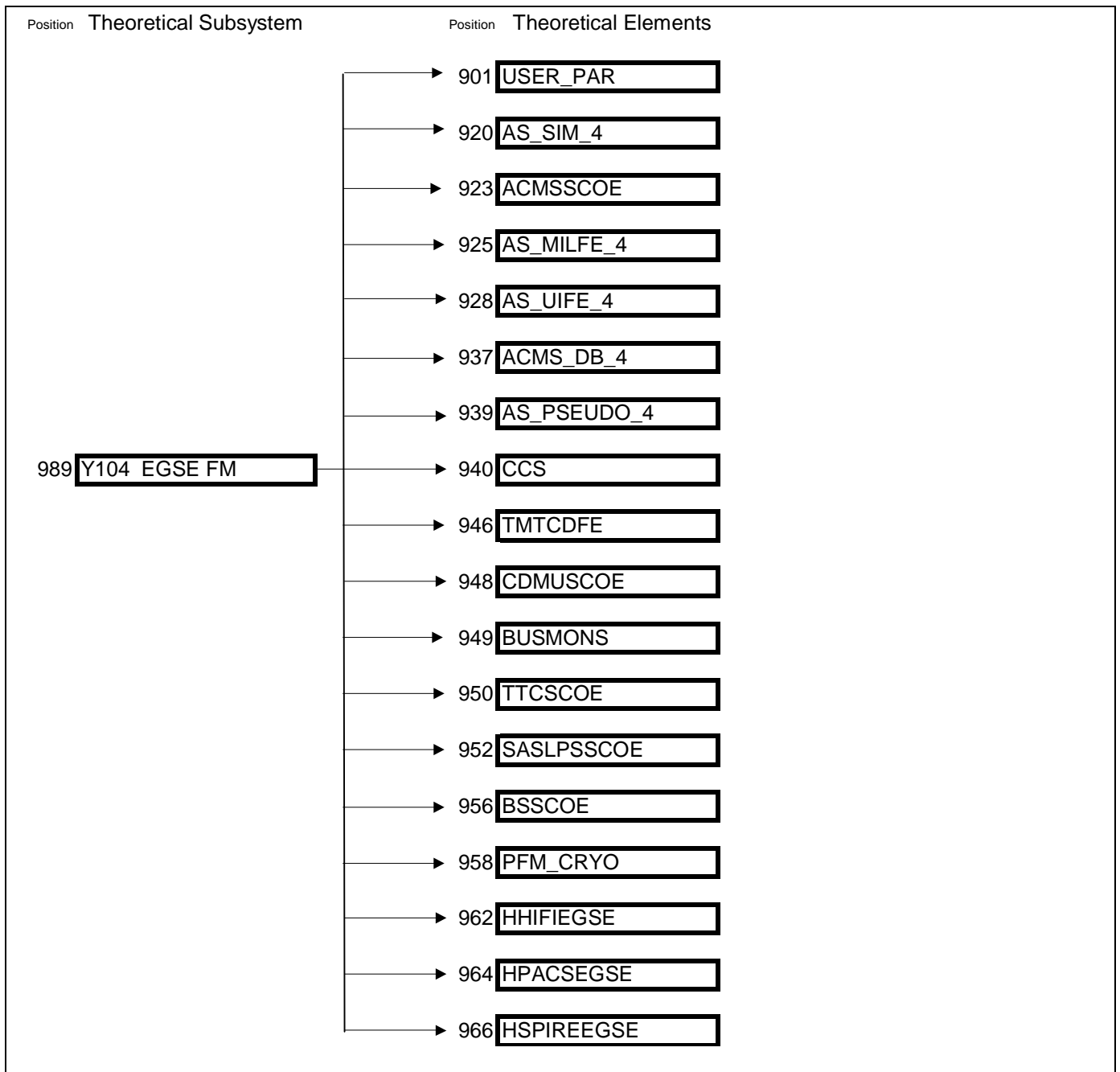
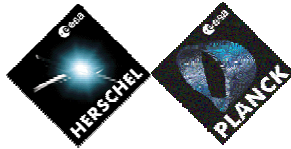


Figure 11- Theoretical Subsystem Y104 (EGSE)

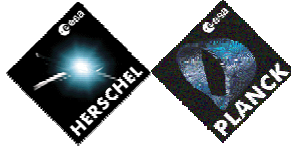
7.1.2 Output-File Changes

N/A

7.2 Output-File compliance

[AD1] and [AD2]





## 7.2.1 Output File Type

CCS Files [(AD1)]

## 7.2.2 HPSDB Version

HPSDB 3.3.1.30

## 7.3 Version/Release Number

H-P-2-ASP-LI-1441 v 09.0

## 7.4 Generation Date

07/04/2008

## 7.5 Checksum Type

MD5

## 7.6 Checksum Value

1ecebc984b5fc5e988ab58ed5c96b35f

## 7.7 Delivered Files

This delivery (one unique zip file: H-P-2-ASP-LI-1441\_issue09.zip) contains 8 files:

1. A pdf document: this release note H-P-2-ASP-LI-1441\_issue09.pdf
2. A zip file generated by HPSDB: R\_TM\_HERSCH\_FM9\_C\_804071709.zip

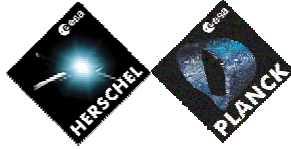
with the following convention:

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. [RD5]

6. [RD6]

7. [RD7]

8. [RD10]

## 8. APPLICABILITY

For Herschel Model including the following software:

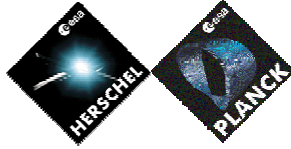
- CDMS 3.4
- ACMS 3.7 [PFM]
- PACS 8.17 [PFM]
- HIFI 11.6 [PFM]
- SPIRE 2.2.H1 PR [PFM]

## 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	10.0
[RD2]	HIEGSE	N/A	N/A
[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	11.0
[RD5]	HIFI 11.6 release note	SRON-U/HIFI/SP/2006-003	11.6
[RD6]	SPIRE 2.2 H1 PR release note	SPIRE_MIB_FM_2.2.H1_PR_20Feb2008_r elease_note	FM_2.2.H1_PR
[RD7]	PACS V8.17 release note	RN_PACS_MIB_N_8_17	8.17
[RD8]	Cryostat	N/A	N/A
[RD9]	Herschel SVM HPSDB CIDL	H-P-LI-AI-0052_14.pdf	14.0
[RD10]	System	H-P-2-ASP-LI-1464	5.0

## 10. KNOWN PROBLEMS OR MISSING DATA

None

## 11. DELIVERY

Delivery send by email on 09/04/2008

Mail

- to
  - ASTRIUM (M. Koelle)
- Copy
  - TAS-F (D. Montet)
  - TAS-F (F. Sauvage)

## 12. NCR STATUS

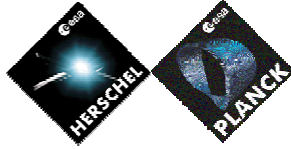
### 12.1 Updated Data NCR

#### 12.1.1 [RD4] CIDL\_HERSCHEL\_OBCP

No information about NCR Data impacted on this delivery.

#### 12.1.2 [RD5] HIFI 11.6 release note

No information about NCR Data impacted on this delivery.



12.1.3 [RD6] SPIRE 2.2 H1 PR release note

2431	H-P-200000-ASP-NC-2431	- P-200000 PLANCK SATELITE - P-110000 HERSCHEL INSTRUMENTS AND TELESCOPE (CFE) - P-210000 PLANCK INSTRUMENTS ( CFE ) - 461200 SVM data - 460000 Data base - 461100 Instrument data - P-230000 PLANCK SVM	No possibility to add monitoring on TM event 5.1, 5.2, 5.4	Release Note SPIRE MIB 2,2 H1 PR: All TM(5,2) and TM(5,4) events now have the SPIRE_ prefix in the PID_DESCR field. These exception and alarm events now have the PID_EVENT field set to W and A respectively. Changes made in response to email from Felix Chatte 11/01/2008, ref H-P-TAS-LT-10006 (consequence of Planck NCR 11635).
------	------------------------	--	--	--

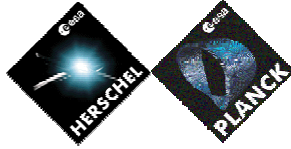
12.1.4 [RD7] PACS V8.17 release note

3414	H-P-461100-ASP-NC-3414	Herschel - PACS V8_16 - Missing TPCF records	Closed	H
3428	HP-113000-ASED-NC-3428	Command completion status of the PACS DPU memory check (TM(6,10))	Closed	H

12.1.5 [RD9]Herschel SVM HPSDB CIDL

Waiting for TAS-I inputs, meanwhile the following NCR's are proposed for Closure:

NCR	Description	Status	Obs
NCR-2078	Updated limits for WM307565 SREM_L19_I New values: 0.12 Hard (was 0.11)	Proposed for Closure	See [RD9]



NCR-3998	HPSDB APID parameter out of range for PACS OBCP enabling/disabling	Proposed for Closure	Closed by Delivery [RD9], but documented. Closure checked by HPSDB Team TAS-F The Curve 170016 : 0 n/a_0 1 n/a_1 16 CDMS 512 ACMS 1024 HIFI_N 1025 HIFI_R 1152 PACS_N 1153 PACS_R 1280 SPIRE_N 1281 SPIRE_R
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12.1.6 [RD10] System

NCR	Description	Status	Obs
NC-3986	Change bit 0 for LSB on parameter DEF4F160=SREM Status Word	Open	Open- This NCR has been corrected at System level. The Closure can only be done after TAS-I Correction
NCR-4000	Shift of parameters of 16 bits on right on the SCOS TM diagnostic packet 264000999	Proposed for Closure	

12.1.7 ALL OPEN NCR DATA

Waiting for TAS-I inputs

**END OF DOCUMENT**