



REFERENCE : H-P-1-ASP-TN-0805

DATE : 25-06-2004

ISSUE : 01/00

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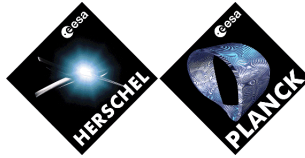
HERSCHEL / PLANCK

**Loading / Generation of S2K HIFI MIB files
on HPSDB**

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DATE : 25-06-2004

ISSUE : 01/00

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(détentrice de l'original) :

HERSCHEL/PLANCK		DISTRIBUTION RECORD	
		Issue / Rev. : 01/00	
DOCUMENT NUMBER : H-P-1-ASP-TN-0805		Date: 25-06-2004	
EXTERNAL DISTRIBUTION		INTERNAL DISTRIBUTION	
ESA	Yes	HP team	Yes
HIFI	Yes	CIJ Documentation	Orig.

Generic Data Collection

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DATE : 25-06-2004

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ENREGISTREMENT DES EVOLUTIONS / *CHANGE RECORDS*

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : <i>CHANGE RECORD</i>	REDACTEUR <i>AUTHOR</i>
1.0	8/06/2004	Configuration of the <ul style="list-style-type: none">HIFI v 0.3 inputs SCOS 2000 MIB files loading inside HPSDBHPSDB v 2.0.3.2	S. Dos Santos

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1. INTRODUCTION

This TN will be updated when a new version of the HIFI SCOS 2000 MIB files is delivered to be loaded inside HPSDB.

The errors found on loading / generating SCOS 2000 mib files with HPSDB, will be described table by table, and will identify the error source (ie is an HIFI error or an HPSDB application error) . With the title "Loading" is on the Loading process, with the title "Generation" is on the generation of bridge files process.

2. APPLICABLE AND REFERENCE DOCUMENTS

2.1 Applicable documents

AD1	S2K-MCS-ICD-0001-TOS-GCI	SCOS 2000 Database Import ICD
AD2	SCI-PT-ICD-7527	Packet Structure Interface Control Document
AD3	H-P-1-ASPI-ID-0141	Naming convention specification

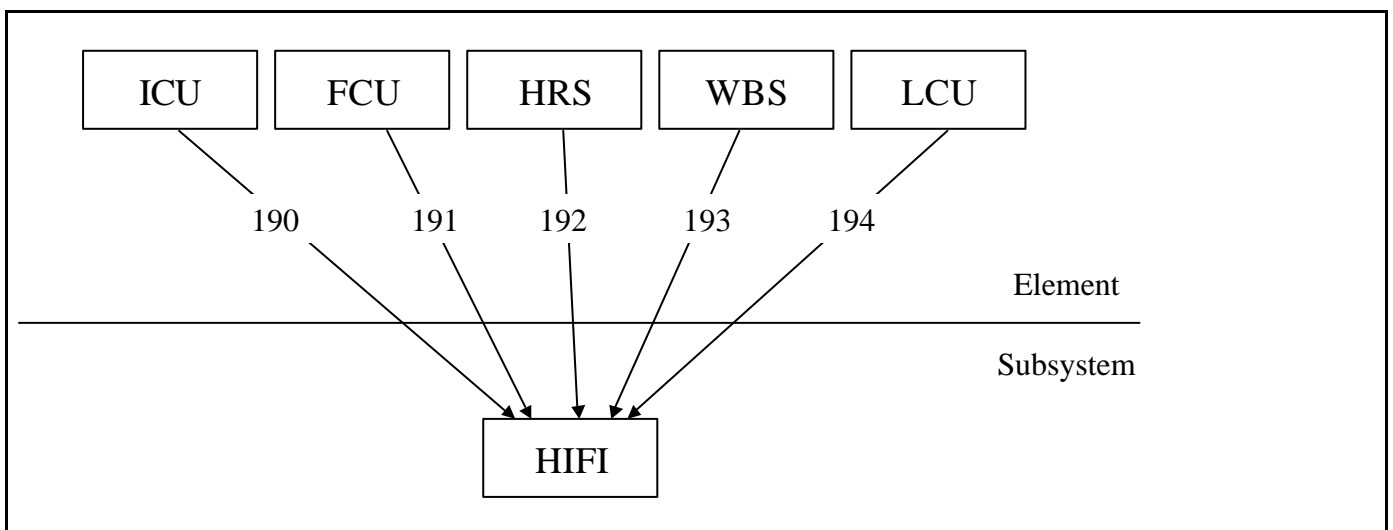
2.2 Reference documents

None

2.3 Acronyms

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

3. HIFI HPSDB DESIGN



4. LOAD OF HIFI SCOS 2000 MIB FILES INSIDE HPSDB

Note please that the tables are listed as in the the AD1 and not by alphabetic order.

4.1.1 General

4.1.1.1 VDF

Generation errors

- **HPSDB-** This file is generated with no valid information.

4.1.2 Monotoring

4.1.2.1 PCF

Loading errors

- **HIFI:** The curves NMCTV shall be from 000-999 see requirement NMCTV -5354-C Instruments-C o on [AD3].
- **HIFI:** PTC,PFC (2,14) not allowed (see [AD2])
- **HIFI:** the parameters:
 - HD502195
 - HD584195to a position that is not defined
- **HPSDB:** is not possible to define the field PCF_VALID with parameters from another box (this will be allowed on the future when the logical instantiation is done)

(HM027190,.HM028190,HM029190, HM030190, HM031190, HM032190 have been removed from PCF_VALID, inside of PCF_VALID were left only parameters that were inside of the same box of the PCF_NAME)

4.1.2.2 CAF

Loading errors

- **HIFI:** The curves identifier shall be from 000-999 see requirement NMCTV -5354-C Instruments-C defined on [AD3]
- **HIFI:** The unit "none" is not allowed see [AD3]
- **HIFI:** Curve duplication, ie for instance when a parameter HM722190 refers to the curve 001 the parameter HM558191 can not refer to the same curve, because the data is inside different boxes. The solution is to create one curve for the parameter HM722190 and another HM558191. Curves that need the duplication:
 - 081
 - 082
 - 152
 - 153
- **HIFI:** The file shall contain only the curves that are referenced by a parameter (unreferenced curves are not loaded inside of HPSDB) the following curves shall be removed:
 - from 289 to 313
 - from 363 to 366

Generation errors

- **HPSDB-** the curves identifiers are not well generated. (NCR reported) instead of number(3) the identifiers have char (6)

4.1.2.3 CAP

Loading errors

- **HIFI:** The curves NMCTV shall be from 000-999 see requirement NMCTV -5354-C Instruments-C inside the [AD3]

Generation errors

- **HPSDB-** the curves identifiers are not well generated. (NCR reported) instead of number(3) the identifiers have char (6)

4.1.2.4 TXF

Loading errors

- **HIFI:** The curves NMCTV shall be from 000-999 see requirement NMCTV -5354-C Instruments-C inside the [AD3]

Generation errors

- **HPSDB-** the curves identifiers are not well generated. (NCR reported) instead of number(3) the identifiers have char (6).

4.1.2.5 TXP

Loading errors

- **HIFI:** The curves NMCTV shall be from 000-999 see requirement NMCTV -5354-C Instruments-C inside [AD3]

Generation errors

- **HPSDB-** t the curves identifiers are not well generated. (NCR reported) instead of number(3) the identifiers have char (6)

4.1.2.6 MCF

Empty file

4.1.2.7 OCF

4.1.2.8 OCP

Generation errors

- **HPSDB-** the field OCF_CODIN is set to Integer values and should be set to Real values (as it is on the HIFI loading files) .

4.1.2.9 PID

Loading errors

- **HIFI:** Wrong SCOS packet identifier, see SCOS packet requirement -NMCTV-4392-C. (for instance the packet 80000190 shall be 080000190)
- **HIFI:** Is not possible to have a packet inside of an element with parameters from another element. if a packet needs parameters from different elements the packet has to be defined at subsystem level so the SCOS TM packets:
 - 080001190 shall be 080001289 (because has elements from the position 190,192)
 - 080002190 shall be 080002289 (because has elements from the position 190,191)
 - 080009192 shall be 080009194 (because has only elements from the position 194)
 - 080010191 shall be 080010289 (because has elements from the position 190,191)
 - 080011191 shall be 080011289 (because has elements from the position 190,191)
 - 080012190 shall be 080012289 (because has elements from the position 190,192,193)

Generation errors

- **HPSDB-** the field PID_DESCR not correct, instead of the description the field has the packet id.

4.1.2.10 PIC

Empty

4.1.2.11 TPCF

Empty

4.1.2.12 PLF

Loading errors

- **HIFI:** Wrong SCOS packet identifier, see SCOS packet requirement -NMCTV-4392-C. (for instance the packet 80000190 shall be 080000190).
- **HIFI:** Is not possible to have a packet inside of an element with parameters from another element. if a packet needs parameters from different elements the packet has to be defined at subsystem level so the SCOS TM packets:
 - 080001190 shall be 080001289 (because has elements from the position 190,192)
 - 080002190 shall be 080002289 (because has elements from the position 190,191)
 - 080009192 shall be 080009194 (because has only elements from the position 194)
 - 080010191 shall be 080010289 (because has elements from the position 190,191)
 - 080011191 shall be 080011289 (because has elements from the position 190,191)
 - 080012190 shall be 080012289 (because has elements from the position 190,192,193)

4.1.2.13 VPD

Empty file

4.1.3 Displays

4.1.3.1 DPF

Loading errors

- **HIFI:** The alphanumeric display HA016190 is wrongly defined, shall be on the position 191 (i.e. HA016191) because the parameters are inside the positions 191, or it can be defined at subsystem level with the pseudo position .

HPsDB doesn't allow any links between boxes of the same level (for instance a display defined at element level can not contain parameters from another element, if on a display there are parameters from different elements , the display shall be defined at subsystem level).

by the same reason

- HA003191 shall be HA003194
- HA007191 shall be HA007289
- HA016190 shall be HA016191
- HA017190 shall be HA017289
- HA022192 shall be HA022289
- HA024191 shall be HA024289

4.1.3.2 DPC

Loading errors

- **HIFI:** The alphanumeric display HA016190 is wrongly defined, shall be on the position 191 (i.e. HA016191) because the parameters are inside the positions 191, or it can be defined at subsystem level with the pseudo position .

(for instance a display defined at element level can not contain parameters from another element, if on a display there are parameters from different elements , the display shall be defined at subsystem level).

by the same reason

- HA003191 shall be HA003194
- HA007191 shall be HA007289
- HA016190 shall be HA016191
- HA017190 shall be HA017289
- HA022192 shall be HA022289
- HA024191 shall be HA024289

4.1.3.3 GPF

Loading errors

- **HIFI:** Wrong NMCTV, see NMCTV-6170-C (for instance the graphic display HG000 shall be HG000191)
- **HIFI:** the field GPF_UPUN is Number (2) 100 not allowed

4.1.3.4 GPC

Loading errors

- **HIFI:** Wrong NMCTV, see NMCTV-6170-C (for instance the graphic display HG000 shall be HG000191)

4.1.3.5 SPF

Loading errors

- **HIFI:** Wrong NMCTV see NMCTV-6200-C (for instance the graphic display HL000 shall be HL000191)

Generation of bridge files

- **HPSDB :**the field SPF_UPUN is not set by HPSDB (this field is not used by SCOS 2000)

4.1.3.6 SPC

Loading errors

- **HIFI:** Wrong identifier see NMCTV-6200-C [AD3] (for instance the graphic display HL000 shall be HL000191)
- **HIFI:** The field SPC_BACK can not be left null , by default shall be set to "0".

4.1.4 Commanding

4.1.4.1 TCP

Empty file

4.1.4.2 PCPC

Empty file

4.1.4.3 PCDF

Empty file

4.1.4.4 CCF

Loading errors

- **HIFI:** the field CCF_exec shall not be left null, by default shall be set to Y
- **HIFI:** the field CCF_critical shall not be left null, by default shall be set to N
- **HIFI:** the field CCF_plan shall not be left null, by default shall be set to N
- **HIFI:** the field CCF_ilscope shall not be left null, by default shall be set to N
- **HIFI:** service TC(4,1) not allowed see PSICD (wrong type can not be inserted inside HPSDB)
- **HIFI:** service TC(17,2) not allowed see PSICD (wrong subtype can not be inserted inside HPSDB)

4.1.4.5 DST

Generation of bridge files

- This file will not be generated, as far as it is depending of the ground configuration.

4.1.4.6 CPC

Loading errors

- **HIFI:** The curves identifiers shall be from 000-999 see requirement NMCTV -5354-C Instruments-C inside [AD3]

- **HIFI:** PTC,PFC (2,20) not allowed (see [AD2])
- **HIFI:** the parameters HP000196, HP001196 are allocated to a non existent equipment.

4.1.4.7 CDF

Loading errors

- **HIFI:** the field CDF_inter shall not be left null, by default shall be set to R
- **HIFI:** the field CDF_inter shall not be left null, for fixed areas
- **HIFI:** A TC packet can not contain parameter from another position or the TC packet has to be defined at pseudo position, for instance:
 - The packet HC005190 can not make reference to the command parameters HP001196, HP000196
 - The packet HC013191 can not make reference to the command parameters HP001196

Generation errors

- **HPSDB-** CDF_DESCR shall only be used for fixed areas (on the HPSDB generated files this field also contains the parameters description)

4.1.4.8 PTV

Empty file

4.1.4.9 CSF

Empty file

4.1.4.10 CSS

Empty file

4.1.4.11 SDF

Empty file

4.1.4.12 CSP

Empty file

4.1.4.13 CVS

Generation errors

HPSDB- the cvs identifiers are not well generated. (NCR reported) instead of four digits the identifiers have the HPSDB format.

4.1.4.14 CVE

Loading errors

- **HIFI:** the field CVE_CHECK shall not be left Null (by default is B)

Generation errors

- **HPSDB-** the cvs identifiers are not well generated instead of number (4) they have number(9)
- **HPSDB-** the application does not recognise that inside of the field CVE_VAL can be a parameter identifier.

4.1.4.15 CVP

Loading errors

– **HIFI:** the commands

HC004190

HC006190

HC013191

HC014192

HC023190

make reference to a cvs that is not defined inside the cvs.dat.

Generation errors

- **HPSDB-** the cvs identifiers are not well generated instead of number (4) they have number(9)

4.1.4.16 PST

Empty file

4.1.4.17 PSV

Empty file

4.1.4.18 CPS

Empty file

4.1.4.19 PVS

Empty file

4.1.4.20 PSM

Empty file

4.1.4.21 CCA

Loading errors

- **HIFI:** The curves NMCTV shall be from 000-999 see requirement NMCTV -5354-C Instruments-C inside the [AD3].
- **HIFI:** Curve duplication, ie for instance when a parameter HM722190 refers to the curve 001 the parameter HM558191 can not refer to the same curve, because the data is inside different boxes. To different curves have to be created. Curves that need the duplication:
 - 026
 - 027
 - 040
 - 041

Generation errors

- **HPSDB-** the curves identifiers are not well generated instead of number (3) the identifiers have number(6).

4.1.4.22 CCS

Loading errors

- **HIFI:** The curves NMCTV shall be from 000-999 see requirement NMCTV -5354-C Instruments-C inside the [AD3]

Generation errors

- **HPSDB-** the curves identifiers are not well generated instead of number (3) the identifiers have number(6).

4.1.4.23 PAF

Loading errors

- **HIFI:** The curves NMCTV shall be from 000-999 see requirement NMCTV -5354-C Instruments-C inside the [AD3]

Generation errors

- **HPSDB-** the curves identifiers are not well generated instead of number (3) the identifiers have number(6).

4.1.4.24 PAS

Loading errors

- **HIFI:** The curves NMCTV shall be from 000-999 see requirement NMCTV -5354-C Instruments-C inside [AD3]

Generation errors

- **HPSDB-** the curves identifiers are not well generated instead of number (3) the identifiers have number(6).

4.1.4.25 PRF

Loading errors

- **HIFI:** Wrong NMCTV see NMCTV for parameter range set NMCTV-5245-Intruments-C, (between 000 and 999) see [AD3]
- **HIFI:** The parameter range set not used shall not be inside of the file, the parameters range set with the identifiers 0002 and 0005 shall be removed

Generation errors

- **HPSDB-** the parameter range set identifiers are not well generated. instead of number (4) the identifiers have char(8).

4.1.4.26 PRV

Loading errors

- **HIFI:** Wrong identifier see [AD3] for parameter range set NMCTV-5245-Intruments-C, (between 000 and 999)
- **HIFI:** The parameter range set not used shall not be inside of the file, the parameters range set with the identifiers 0002 and 0005 shall be removed

Generation errors

- **HPSDB-** the parameter range set identifiers are not well generated. instead of number (4) the identifiers have char(8).

END OF THE DOCUMENT