IFSI CNR

HERSCHEL PACS
PACS MIB Naming Convention

Ref.: PACS-CR-TN-
Issue: 1
Date: 9.04~~15.57~~13.01
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1 Introduction

This note takes the Naming Convention Specification (H-P-1-ASPI-SP-0141) for the Herschel/Planck satellites' database and applies it to the PACS instrument to provide a recommended naming convention for the PACS Mission Implementation Base (MIB).

The PACS MIB contains Monitor and Command packets, Monitor and Command parameters plus the corresponding calibration curves and displays.

The following naming convention shall be used:

Item	scos-name	Name	Convention	ASPI comments
Command parameter	cpc_pname	**PP**nnnppp	5130	OK
Monitor parameter	pcf_name	**PM**nnnppp	5130	OK
Command packet	ccf_cname	**PC**nnnppp	4580	OK
Monitor packet	pid_spid	~~ttt~~16nnnnppp	4380	(1)
Command num calibration	cca_numbr	~~tttnnnrrr~~	~~5370~~	(2)
Command txt calibration	paf_numbr	~~tttnnnrrr~~	~~5370~~	(2)
Monitor num calibration	caf_numbr	~~tttnnnrrr~~	~~5370~~	(2)
Monitor txt calibration	txf_numbr	~~tttnnnrrr~~	~~5370~~	(2)
Polynomial calibration	mcf_ident	~~tttnnnrrr~~	~~5370~~	(2)
Numerical display	dpf_numbe	**PA**nnnppp	~~6100~~6150	OK
Graphical display	gpf_numbe	**PG**nnnppp	~~6110~~6150	OK
Scrolling display	spf_numbe	**PL**nnnppp	~~6130~~6150	OK

(1) Due to an error in previous issue and due to PACS needs, has been changed

(2) If you are using a SCOS-2000 version supporting only calibration identifier coded as Number(4), please code any curve reference under Number(3) format unique for all your curves (maximum number of curves is 1000) - If you are using a SCOS-2000 version supporting calibration identifier coded over as Char(10) please code the common curves (shared by several parameters) according to 5370 ("289 nnn") and the specific curve (associated to one and only one parameter) according to 5375 ("HP xxx ppp cc" for command parameter or "HM xxx ppp cc" for monitoring parameter)

Where:
- nnn and nnnn are running numbers starting at zero and incrementing
- ttt is the System Element number, for PACS it is a number in the range 380-429 (see section 2.1)
- ppp is the Position Identifier number, for PACS is a number in the range [380-427] U [428]~~429~~ (see section 0)
- rrr is the Real Element number (see section 2.3)

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2 Identifiers

Identifiers are defined in the Naming Convention Specification with PACS allocated particular numbers and characters for the various fields. This section defines how these are used in the PACS naming convention.

2.1 System Elements

Each distinct type of subsystem in the instrument (called a System Element Type) is assigned a unique number:

System Element Type	Number	ASPI comments
DPU	380	OK
SPUL	390	OK
SPUS	400	OK
BOL	410	OK
DMC	420	OK

2.2 Position Identifiers

Each model of the instrument (including a 'theoretical' model) is composed of a set of System Elements. This may include more than one System Element of any given type. Each distinct System Element for each instrument model is assigned a unique number. This unique number is also used as the Position Identifier.

System Element	Model				
	Theoretical	AVM	QM	FM	FS
DPU nominal	380	380	380	380	380
DPU redundant			381	381	381
SPUL nominal	390	390	390	390	390
SPUL redundant			391	391	391
SPUS nominal	400	400	400	400	400
SPUS redundant		401	401	401	401
BOL	410	410	410	410	410
DMC	420	420	420	420	420

ASPI comments : OK

2.3 Real Element Numbers

This numbers identify the real ~~System~~ Element.

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System Element	Model			
	AVM	QM	FM	FS
DPU	380	380	380	380
SPUL	390	390	390	390
SPUS	400	400	400	400
BOL	410	410	410	410
DMC	420	420	420	420

ASPI comments :

No - There is not any constraints on the real element number (except its limitation over 3 numerical digits [000-999]) but for a same "subsystem" for you ("real element" for ASPI the number shall be differents (one to one correspondance with serial number). The ASPI proposal is :

System Element	Model			
	AVM	QM	FM	FS
DPU	380	381	382	383
SPUL	380	381	382	383
SPUS	380	381	382	383
BOL	380	381	382	383
DMC	380	381	382	383

the following implementation is also valid :

System Element	Model			
	AVM	QM	FM	FS
DPU	0	1	2	3
SPUL	4	5	6	7
SPUS	8	9	10	11
BOL	12	13	14	15
DMC	16	17	18	19

the following implementation is also valid :

System Element	Model			
	AVM	QM	FM	FS
DPU	0	1	2	3
SPUL	0	1	2	3
SPUS	0	1	2	3
BOL	0	1	2	3

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DMC	0	1	2	3