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 SPIRE instrument to provide a recommended naming convention for the SPIRE Mission Implementation Base (MIB).

The SPIRE 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	**SP**innppp	5130	OK
Monitor parameter	pcf_name	**SM**innppp	5130	OK
Command packet	ccf_cname	**SC**innppp	4580	OK
Monitor packet	pid_spid	19nnnnppptt tnnnnppp	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_identnumbr	tttnnnrrr	5370	(2)
Numerical display	and	**SA**innppp	61506100	OK
Graphical display	grd	**SG**innppp	61506110	OK
Scrolling display	srd	**SL**innppp	61506130	OK

(*) ASPI SCOS mnemo are issued from issue 5.0 of SCOS-2000 database import ICD.

(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:
- i is the System Element ID (see section 2.1)
- nn, nnn and nnnn are running numbers starting at zero and incrementing (warning : this limits the number of command parameter, monitor parameter and command packet to 99 per system element ID. The naming convention allows for some identifiers "nn" to be 2 alphanumerics)
- ttt is the System Element number (see section 2.1)
- rrr is the Real Element number (see section 2.3)
- ppp is the Position Identifier (see section 2.2)

2. IDENTIFIERS

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

2.1 System Elements

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

System Element Type	ID	ASPI comments	Number
OBS	B	OK	480
DPU	P	OK	490
DCU	D	OK	500
MCU	M	OK	510
SCU	S	OK	520

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.

	Model				
System Element	Theoretical	AVM	QM	FM	FS
OBS	480	481	483	485	487
DPU	490	491^1 492^2	493^1 494^2	495^1 496^2	497^1 498^2
DCU	500	501	503	505	507
MCU	510	511	513	515	517
SCU	520	521	523	525	527

ASPI suggest the following implementation (refer to answer to ASPI comments to HIFI summary) :

	Model				
System Element	Theoretical	AVM	QM	FM	FS
OBS	480	480	480	480	480
DPU	490	490^1 491^2	490^1 491^2	490^1 491^2	490^1 491^2
DCU	500	500	500	500	500
MCU	510	510	510	510	510
SCU	520	520	520	520	520

The "theoretical" position identifier is not needed.

1. Valid for prime element
2. Valid for redundant element

SPIRE

Technical Note

SPIRE MIB Naming Convention
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2.3 Real Element Numbers

These numbers identify individual configurations of each System Element (there may be more than one configuration if, for example, electronic boards have to be exchanged during testing). The table below gives the Real Element Number for the first configuration of the System Element. They should be incremented by 1 for each new configuration.

System Element	Model			
	AVM	QM	FM	FS
OBS	100	300	500	700
DPU	100^1 200^2	300^1 400^2	500^1 600^2	700^1 800^2
DCU	100	300	500	700
MCU	100	300	500	700
SCU	100	300	500	700

1. Valid for prime element
2. Valid for redundant element

OK