

Naming Convention Specification

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HERSCHEL / PLANCK
System Database Specification

Naming Convention Specification

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	HERSCHEL / PLANCK TEAM	Date	Signature
Rédigé par/Written by	F. CHATTE	01/02/02	
Vérifié par/Verified by	P. RIDEAU		
Vérifié par/Verified by	JY. CHARNIER		
Vérifié par/Verified by	C. MASSE		
Approbation/Approved	J.J. JUILLET		

Entité Emettrice : Alcatel Space - Cannes
(détentrice de l'original) :

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 2/69

ENREGISTREMENT DES EVOLUTIONS / CHANGE RECORDS

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Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 3/69

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 4/69

TABLE OF CONTENTS

1. SCOPE	8
2. DOCUMENTS	9
2.1 Applicable documents	9
2.2 Reference documents	9
2.3 Acronyms	9
2.4 Definition	9
3. GENERAL IDENTIFIER REQUIREMENTS	10
4. IDENTIFIER REQUIREMENTS	12
4.1 Configuration	12
4.2 Telemetry packets	15
4.3 Telecommand packets	18
4.4 1553 messages	23
4.5 OBDH interfaces	26
4.6 Parameters	28
4.7 Curves	30
4.8 Displays	31
5. GENERAL ALLOCATION REQUIREMENT	33
6. DETAIL ALLOCATION REQUIREMENTS	34
6.1 Subsystems	34
6.2 Type of system elements	35
6.3 Position	37
7. ATTRIBUTES REQUIREMENTS	39

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 5/69

7.1 Application ID	39
7.1.1 Short description	39
7.1.2 Long description	39
7.2 Software parameter identifier	39
8. ANNEX 1 : COMPLIANCE MATRIX WITH RD1	40
9. SUMMARY	51
9.1 Configuration	51
9.2 Telemetry packets	53
9.3 Telecommand packets	56
9.4 1553 messages	61
9.5 OBDH interfaces	64
9.6 Parameters	65
9.7 Curves	67
9.8 Displays	68

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 6/69

List of figures

None

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 7/69

List of tables

None

1. SCOPE

The scope of this document is to provide the naming convention to apply for the identifiers attached to all items which will be manipulated all among the Herschel / Planck project from engineering up to operation and which will be defined in the Herschel /Planck System DataBase (HPSDB).

This naming convention is aimed mainly to prevent identifier duplication at spacecraft real model level.

In addition, this naming convention shall support commonality between Herschel and Planck (for instance common subsystem (RF, ...), common boxes (QRS, CCS, ...)) and between the different models of a same spacecraft (AVM, SVM, PFM, ...), this will allow to have common items allowing common development for AIT (TM and TC identifiers, test sequences, synoptics, ...) or operation (TM and TC identifiers, displays, ...) or software (TM and TC identifiers, ...).

As last aim, this naming convention shall make the identifier as readable as possible.

Chapter 2 provides the applicable and reference documents. RD1 document in annex 4 provide a provisional naming convention limited to one spacecraft model (PFM) definition and not supporting all the spacecraft model definitions used during development phases.

Chapter 3 provides the general identifier requirements : possible subtypes, authorised characters, ...

Chapter 4 provides the detail identifier requirements, each requirement is linked with an AD1 requirement.

Chapter 5 provides the general allocation requirements : mainly range of allocated value per subsystem.

Chapter 6 provides the detailed allocation requirements.

Chapter 7 provides some additional requirements to be applied on some attributes (APID, labels, ...).

The requirements have the following format :

- Requirement identifier :
 - 5 characters set to "NMCVT" to identify requirements applicable to NaMing ConVenTion,
 - 4 decimal digits to uniquely identified NMCNV requirement,
 - One character set to "C" to identify that the requirements apply to both Herschel and Planck,
- requirement title,
- Verification method : one character set to "I" to indicate that the validation method will be done by inspection (mainly via HPSDB checks or automatic generation).
- Text of the requirement.

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 9/69

2. DOCUMENTS

In case of conflict between this document and other document (mainly RD1), this document has precedence.

2.1 Applicable documents

AD1	H-P-1-ASPI-SP-0082	Herschel / Planck System database specification
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2.2 Reference documents

RD1	SCI-PT-RS-07360	Operations Interface Requirement Document (Annex 4)
RD2	S2K-MCS-ICD-0001-TOS-GCI	SCOS-2000 database import ICD
RD3	SCI-PT-ICD-07527	Packet structure interface control document (PSICD)

2.3 Acronyms

Refer to AD1

2.4 Definition

Refer to AD1.

3. GENERAL IDENTIFIER REQUIREMENTS

The identifiers are coded using the identifier subtypes defined in the following requirements.

NMCVT-0100-C - Identifier type - I

The identifier type shall be defined as any character string able to include one or several occurrences of the following identifier characters :

- [0-9] (decimal digits),
- [A-H] (characters from "A" to "H", but only upper case),
- [J-N] (characters from "J" to "N", but only upper case),
- [P] (character "P", but only upper case),
- [R-Z] (characters from "R" to "Z", but only upper case),
- [_] (underscore),
- [+] (plus),
- [-] (minus, dash),
- [.] (dot).

Note :

- 1 Characters "I", "O" and "Q" by default are excluded in order to minimise the likelihood of transcription errors when these are typed manually, however they can be used if specifically authorised (type of system element, system element model, ...).

NMCVT-0110-C - Identifier subtype - I

The identifier subtypes are identifier type with length and other potential limitations and shall be :

- IDCHnnF with
 - "ID" for identifier type,
 - "CH" for any authorised character,
 - "nn" for the identifier length (01-99),
 - "F" for fixed length
- IDE201F (function specifier for parameter - refer to RD1-A4.3) :
 - Length = 1,
 - Enumerated data :

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 11/69

- . "B" Spare (at function specifier level),
 - . "D" for synthetic (derived) parameters,
 - . "E" Spare (at function specifier level),
 - . "H" Spare (at function specifier level),
 - . "J" Spare (at function specifier level),
 - . "K" for constant parameter (not compliant with RD1 due to TC identifier function),
 - . "M" for TM parameters,
 - . "N" Spare (at function specifier level),
 - . "P" for command parameter,
 - . "R" Spare (at function specifier level),
 - . "Z" for system parameter,
 - . "U" for user parameter,
 - . "W" Spare (at function specifier level),
- IDINnnF with
- "ID" for identifier type,
 - "IN" for any decimal digit string,
 - "nn" for the identifier length (01-99),
 - "F" for fixed length

Note :

- 1 Some other limitations can be added in the corresponding requirements.
- 2 For IDE201F, the other allowed letter are for other items than parameter (TC, sequence, ...).
- 3 For IDINnnF, the greater value (9, 99, 999, ...) is reserved for "pseudo" definition.

4. IDENTIFIER REQUIREMENTS

The following requirements are directly linked to AD1 requirements. In order to insure the traceability with [AD1] document, the NMCVT requirements numbering is the one of the HPSDB requirements (for instance NMCVT-1234-C requirement refer to HPSDB-1234-C requirement in AD1).

4.1 Configuration

NMCVT-4030-C	-	Type of system elements	-	I
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"Type of system element" identifier shall :

- Be of IDCH11F subtype,
- Be unique.

For instance : "01234567890", "CDMU_____", "CDMU_SW_h__", "TWTA_____", "CCS_____"

Note : Letters "I", "O" and "Q" are allowed

NMCVT-4040-C	-	Type of system element number	-	I
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"Type of system element" number identifier shall :

- Be of IDIN03F subtype,
- Be unique.

For instance : "012", "000", "998"

note : Used in some identifier (when there is no length constraint) as three first character (structure, ...).

NMCVT-4050-C	-	Real elements	-	I
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"Real element" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - From first up to eleventh character is "type of system element" identifier (IDCH11F - refer to NMCVT-4030-C),
 - From twelfth upto fourteenth character is "real element" number (IDIN03F - refer to NMCVT-4060-C),
- Be unique.

For instance : "01234567890012", "CDMU_____007", "CDMU_SW_h__001", "TWTA_____002", "CCS_____003"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 13/69

NMCSV-4060-C - real element number - I

"Real element" number shall :

- Be of IDIN03F
- Be unique for a "type of system element".

For instance : "012", "998"

Note : used for instantiation at real element generation (curve, ...)

NMCSV-4075-C - Elements direct definition - I

"element direct definition" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - From first up to eleventh character is "pseudo type of system element" identifier (IDCH11F - refer to NMCSV-4030-C),
 - From twelfth upto fourteenth character is "pseudo real element" number (IDIN03F - refer to NMCSV-4060-C),
- Be unique.

For instance : "01234567890999", "CDMU_____999", "CDMU_SW_h_999", "TWTA_____999", "CCS_____999"

NMCSV-4100-C - System element models - I

"System element model" identifier shall :

- Be of IDCH10F subtype
- Be unique.

For instance : "H_01234567", "P_PLM_____", "H_PFM_____", "X_AVM1_____"

Note : Characters "I", "O" and "Q" are allowed.

NMCSV-4111-C - System element models direct definition - I

"System element model direct definition" identifier shall :

- Be of IDCH10F subtype
- Be unique.

For instance : "H_01234567", "P_PLM_____", "H_PFM_____", "X_AVM1_____"

Note : Characters "I", "O" and "Q" are allowed.

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 14/69

NMCVT-4113-C - Subsystems

"Subsystem" identifier shall :

- Be of IDCH01F subtype,
- Be unique for a "system element model".

For instance : "A", "C", "Z"

NMCVT-4117-C - Position

"Position" identifier shall :

- Be of IDIN03F subtype,
- Be unique for a "system element model".

For instance : "000", "998", "012"

Note : used for instantiation at system element model generation (parameter identifier, Telecommand packet identifier, ...)

NMCVT-4120-C - Real models

"Real model" identifier shall :

- Be of IDCH12F subtype with the following limitations :
 - From first up to tenth character is "system element model" identifier (IDCH10F - refer to NMCVT-4100-C),
 - From eleventh up to twelfth character is "real model" number (IDIN02F - refer to NMCVT-4130-C),
- Be unique.

For instance : "H_0123456701", "P_PLM___02", "H_PFM___98", "X_AVM1___25"

NMCVT-4130-C - Real model number

"Real model" number shall :

- Be of IDCH02F subtype
- Be unique for a "system element model".

For instance : "01", "98"

Note : could (it is not in the current status of HPSDB) for any instantiation at "real mode" generation.

4.2 Telemetry packets

NMCVT-4305-C - TM packet standard template - I

"TM packet standard template" identifier shall :

- Be of IDCH10F subtype with the following limitations :
 - First character is "pseudo subsystem" identifier (IDCH01F- refer to NMCVT-4113-C),
 - Second character is "X",
 - From third up to sixth character is "TMSD" (to refer to TM packet standard template),
 - From seventh up to tenth character is IDIN04F (Unique for "YXTMSD"),
- Be unique.

For instance : "ZXTMSD0123", "ZXTMSD9998", "ZXTMSD0250"

NMCVT-4320-C - TM packet PSICD template - I

"TM packet PSICD template" identifier shall :

- Be of IDCH10F subtype with the following limitations :
 - First character is "pseudo subsystem" identifier (IDCH01F- refer to NMCVT-4113-C),
 - Second character is "X",
 - From third up to sixth character is "TMPS" (to refer to TM packet PSICD template),
 - From seventh up to eighth character is IDIN02F (Type),
 - From ninth up to tenth character is IDIN02F (Subtype),
- Be unique.

For instance : "ZXTMPS0123", "ZXTMPS9998", "ZXTMPS0250"

NMCVT-4340-C - Theoretical TM packet - I

"Theoretical TM packet" identifier shall :

- Be of IDIN07F subtype with the following limitations :
 - From first up to third character is "type of system element" number (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character IDIN04F,
- Be unique for a "type of system element".

For instance : "0120123", "9989998", "0250250"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 16/69

NMCVT-4360-C - Theoretical TM structure - I

"Theoretical TM structure" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - From first up to third character is "type of system element" number (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character is "TMST" (to refer to TM structure),
 - From eighth up to eleventh character is IDIN04F,
- Be unique for a "type of system element".

For instance : "012TMST0123", "998TMST9998", "025TMST0250"

NMCVT-4374-C - Theoretical TM packet group - I

"Theoretical TM packet group" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - From first up to third character is "type of system element" number (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character is "TMGR" (to refer to TM group),
 - From eighth up to eleventh character is IDIN04F,
- Be unique for a "type of system element".

For instance : "012TMGR0123", "998TMGR9998", "025TMGR0250"

NMCVT-4380-C - Real TM packet - I

"Real TM packet" identifier shall :

- Be of IDIN10F subtype with the following limitations :
 - From first up to seventh character is "theoretical TM packet" identifier (IDIN07F - refer to NMCVT-4340-C),
 - From eighth up to tenth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "0120123012", "9989998998", "0250250025"

NMCVT-4400-C - Real TM structure - I

"Real TM structure" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - From first up to eleventh character is "theoretical TM" structure identifier (IDCH11F - refer to NMCVT-4360-C),

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 17/69

- From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "012TMST0123012", "998TMST9998998", "025TMST0250025"

NMCVT-4420-C - Real TM packet group - I

"Real TM packet group" identifier shall :

- Be of IDCH14F subtype with the following limitation :
 - From first up to eleventh character is "theoretical TM packet group" identifier (IDCH11F - refer to NMCVT-4374-C),
 - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "012TMGR0123012", "998TMGR9998998", "025TMGR0250025"

NMCVT-4440-C - TM packet direct definition - I

"TM packet direct definition" identifier shall :

- Be of IDIN10F subtype with the following limitations :
 - From first up to seventh character is "pseudo theoretical TM packet" identifier (IDIN07F - refer to NMCVT-4340-C)
 - From eighth up to tenth character is "pseudo position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a real model.

For instance : "9990123999", "9999998999", "9990250999"

NMCVT-4450-C - TM structure direct definition - I

"TM structure direct definition" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - From first up to eleventh character is "pseudo theoretical TM structure" identifier (IDCH11F - refer to NMCVT-4360-C),
 - From twelfth up to fourteenth character is "pseudo position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "999TMST0123999", "999TMST9998999", "999TMST0250999"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 18/69

NMVCVT-4455-C - TM packet group direct definition - I

"TM packet group direct definition" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - From first up to eleventh character is "pseudo theoretical TM packet group" identifier (IDCH11F - refer to NMVCVT-4374-C),
 - From twelfth up to fourteenth character is "pseudo position" identifier (IDIN03F - refer to NMVCVT-4117-C),
- Be unique for a "real model".

For instance : "999TMGR0123999", "999TMGR9998999", "999TMGR0250999"

4.3 Telecommand packets

NMVCVT-4505-C - TC packet standard template - I

"TC packet standard template" identifier shall :

- be of IDCH10F subtype with the following limitations :
 - First character is "pseudo subsystem" identifier (IDCH01F- refer to NMVCT-4113-C),
 - Second character is "X" (RD1),
 - From third up to sixth character is "TCSD" (to refer to TC packet standard template),
 - From seventh up to tenth character is IDIN04F (Unique for "YXTCSD")
- Be unique.

For instance : "ZXTCS0123", "ZXTCS09998", "ZXTCS0250"

NMVCVT-4520-C - TC packet PSICD template - I

"TC packet PSICD template" identifier shall :

- Be of IDCH10F subtype with the following limitations :
 - First character is "pseudo subsystem" identifier (IDCH01F- refer to NMVCT-4113-C),
 - Second character is "X" (RD1),
 - From third up to sixth character is "TCPS" (to refer to TC packet PSICD template),
 - From seventh up to eighth character is IDIN02F (type),
 - From ninth up to tenth character is IDIN02F (subtype),
- Be unique.

For instance : "ZXTCP0123", "ZXTCP09998", "ZXTCP0250"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 19/69

NMCVT-4540-C - Theoretical TC packet - I

"Theoretical TC packet" identifier shall :

- Be of IDCH04F subtype with the following limitations :
 - First character is "C",
 - From second up to fourth character is IDCH03F,
- Be unique for a "type of system element".

For instance : "C012", "CABC", "C998", "C025"

NMCVT-4560-C - Theoretical TC structure - I

"Theoretical TC structure" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - From first up to third character is "type of system element" number (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character is "TCST" (to refer to TC structure),
 - From eighth up to eleventh is IDIN04F,
- Be unique for a "type of system element".

For instance : "012TCST0123", "998TCST9998"

NMCVT-4574-C - Theoretical TC packet group - I

"Theoretical TC packet group" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - From first up to third character is "type of system element" number" (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character is "TCGR" (to refer to TC group),
 - From eighth up to eleventh character is IDIN04F
- Be unique for a "type of system element".

For instance : "012TCGR0123", "998TCGR9998", "025TCGR0250"

NMCVT-4580-C - Real TC packet - I

"Real TC packet" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F - refer to NMCVT-4113-C),
 - From second up to fifth character is "theoretical TC packet identifier" (IDCH04F - refer to NMCVT-4540-C),

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 20/69

- From sixth up to eighth character is "position identifier" (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AC012012", "ACABC012", "YC998998", "HC025025"

NMCVT-4600-C - Real TC structure - I

"Real TC structure" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - From first up to eleventh character is "theoretical TC structure" identifier (IDCH11F - refer to NMCVT-4560-C),
 - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "012TCST0123012", "998TCST9998998", "025TCST0250025"

NMCVT-4620-C - Real TC packet group - I

"Real TC packet group" identifier shall :

- Be of IDCH14F subtype with the following limitation :
 - From first up to eleventh character is "theoretical TC packet group" identifier (IDCH11F - refer to NMCVT-4574-C),
 - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "012TCGR0123012", "998TCGR9998998", "025TCGR0250025"

NMCVT-4640-C - TC packet direct definition - I

"TC packet direct definition" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "pseudo subsystem" identifier (IDCH01F - refer to NMCVT-4113-C),
 - From second up to fifth character is "pseudo theoretical TC packet identifier" (IDCH04F - refer to NMCVT-4540-C)
 - From sixth up to eighth character is "pseudo position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a real model.

For instance : "ZC012999", "ZCABC999", "ZC998999", "ZC025999"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 21/69

NMCCVT-4650-C - TC structure direct definition - I

"TC structure direct definition" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - From first up to eleventh character is "pseudo theoretical TC structure" identifier (IDCH11F - refer to NMCCVT-4560-C),
 - From twelfth character up to fourteenth character is "pseudo position" identifier (IDIN03F - refer to NMCCVT-4117-C),
- Be unique for a "real model".

For instance : "999TCST0123999", "999TCST9998999", "999TSST0250999"

NMCCVT-4655-C - TC packet group direct definition - I

"TC packet group direct definition" identifier shall :

- Be of IDCH14F subtype with the following limitation :
 - From first up to eleventh character is " pseudo theoretical TC packet group" identifier (IDCH11F - refer to NMCCVT-4574-C),
 - From twelfth up to fourteenth character is "pseudo position" identifier (IDIN03F - refer to NMCCVT-4117-C),
- Be unique for a "real model".

For instance : "999TCGR0123999", "999TCGR9998999", "999TCGR0250999"

NMCCVT-4660-C - Command sequence - I

"Command sequence" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMVCT-4113-C),
 - Second character is "S",
 - From third up to fifth character is IDCH03F,
 - From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCCVT-4117-C),
- Be unique for a "real model".

For instance : "AS012012", "ASABC012", "YS998998", "HS025025"

NMCCVT-4680-C - Command sequence formal parameter - I

"Command sequence formal parameter" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMVCT-4113-C),

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 22/69

- Second character is "F",
- From third up to fifth character is IDCH03F,
- From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AF012012", "AFABC012", "YF998998", "HF025025"

NMCVT-4685-C - Command parameter set - I

"Command parameter set" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMVCT-4113-C),
 - Second character is "T",
 - From third up to fifth character is IDCH03F,
 - From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AT012012", "ATABC012", "YT998998", "HT025025"

NMCVT-4690-C - Command parameter set value - I

"Command parameter set value" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMVCT-4113-C),
 - Second character is "V",
 - From third up to fifth character is IDCH03F,
 - From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AV012012", "AVABC012", "YV998998", "HV025025"

NMCVT-4660-C - Command parameter range check - I

"Command parameter range check" identifier shall : TBD (N4 in RD2)

For instance : TBD

4.4 1553 messages

NMCVT-4705-C - 1553 message template - I

"1553 message template" identifier shall

- be of IDCH10F subtype with the following limitations :
 - First character is "pseudo subsystem" identifier (IDCH01F- refer to NMCVT-4113-C),
 - Second character is "X",
 - From third up to sixth character is "BUSD" (to refer to 1553 message template),
 - From seventh up to tenth character is IDIN04F (Unique for "YXBUSD"),
- Be unique.

For instance : "ZXBUSD0123", "ZXBUSD9998", "ZXBUSD0250"

NMCVT-4725-C - 1553 status word - I

"1553 status word" identifier shall

- be of IDCH10F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMCVT-4113-C),
 - Second character is "X",
 - From third up to sixth character is "BUSW" (to refer to 1553 status word),
 - From seventh up to eighth character is IDIN02F (RT address),
 - From ninth character up to tenth character is IDIN02F (subaddress),
- Be unique.

For instance : "DXBUSW0123", "AXBUSW9998", "AXBUSW2525"

NMCVT-4740-C - Theoretical 1553 message - I

"Theoretical 1553 message" identifier shall :

- Be of IDIN11F subtype with the following limitations :
 - From first up to third character is "type of system element number (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character is "BUMG" (to refer to 1553 message),
 - Eighth character is IDCH01F ("A" for Acquisition, "C" for Command),
 - From ninth up to eleventh is IDIN03F,
- Be unique for a "type of system element".

For instance : "012BUMGA012", "998BUMGC998", "025MUMGC025"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 24/69

NMCMVT-4760-C - Theoretical 1553 structure

"Theoretical 1553 structure" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - From first up to third character is "type of system element" number (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character is "BUST" (to refer to 1553 structure),
 - Eighth character is IDCH01F ("A" for Acquisition, "C" for Command),
 - From ninth up to eleventh is IDIN03F,
- Be unique for a "type of system element".

For instance : "012BUSTA012", "998BUSTC998", "025BUMGC025"

NMCMVT-4774-C - Theoretical 1553 message group

"Theoretical 1553 message group" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - From first up to third character is "type of system element" number (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character is "BUGR" (to refer to 1553 group),
 - Eighth character is IDCH01F ("A" for Acquisition, "C" for command),
 - From ninth up to eleventh character is IDIN03F
- Be unique for a "type of system element".

For instance : "012BUGRA012", "998BUGRC998", "025BUGRC025"

NMCMVT-4780-C - Real 1553 message

"Real 1553 message" identifier shall :

- Be of IDIN14F subtype with the following limitations :
 - From first up to eleventh character is "theoretical 1553 message" identifier" (IDIN11F - refer to NMCVT-4740-C)
 - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "012BUMGA012012", "998BUMGC998998", "025MUMGC025025"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 25/69

NMCCVT-4800-C - Real 1553 structure - I

"Real 1553 structure" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - From first up to eleventh character is "theoretical 1553 structure" identifier (IDCH11F - refer to NMCCVT-4760-C),
 - From twelfth character up to fourteenth character is "position" identifier (IDIN03F - refer to NMCCVT-4117-C),
- Be unique for a "real model".

For instance : "012BUSTA012012", "998BUSTC998998", "025BUMGC025025"

NMCCVT-4820-C - Real 1553 message group - I

"Real 1553 message group" identifier shall :

- Be of IDCH14F subtype with the following limitation :
 - From first up to eleventh character is "theoretical 1553 message group" identifier (IDCH11F - refer to NMCCVT-4774-C),
 - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCCVT-4117-C),
- Be unique for a "real model".

For instance : "012BUGRA012012", "998BUGRC998998", "025BUGRC025025"

NMCCVT-4840-C - 1553 message direct definition - I

"1553 message direct definition" identifier shall :

- Be of IDIN10F subtype with the following limitations :
 - From first up to seventh character is "pseudo 1553 message" identifier (IDIN07F - refer to NMCCVT-4740-C)
 - From eighth up to tenth character is "pseudo position" identifier (IDIN03F - refer to NMCCVT-4117-C),
- Be unique for a "real model".

For instance : "999BUMGA012999", "999BUMGC998999", "999MUMGC025999"

NMCCVT-4850-C - 1553 structure direct definition - I

"1553 message structure direct definition" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - From first up to eleventh character is "pseudo 1553 structure" identifier (IDCH11F - refer to NMCCVT-4760-C),

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 26/69

- From twelfth character up to fourteenth character is "pseudo position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "999BUSTA012999", "999BUSTC998999", "999BUMGC025999"

NMCVT-4860-C - 1553 message group direct definition - I

"1553 message group direct definition" identifier shall :

- Be of IDCH14F subtype with the following limitation :
 - From first up to eleventh character is "pseudo 1553 message group" identifier (IDCH11F - refer to NMCVT-4774-C),
 - From twelfth up to fourteenth character is "pseudo position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "999BUGRA012999", "999BUGRC998999", "999BUGRC025999"

4.5 OBDH interfaces

NMCVT-4974-C - Theoretical OBDH interrogation - I

"Theoretical OBDH" identifier shall :

- Be of IDIN11F subtype with the following limitations :
 - From first up to third character is "type of system element number" (IDIN03F - refer to NMCVT-4040-C),
 - from fourth up to seventh character is "DHIN" (to refer to OBDH interrogation),
 - Eighth character is IDCH01F ("C" for Command),
 - From ninth up to eleventh character IDIN03F,
- Be unique for a "type of system element".

For instance : "012DHINC012", "998DHINC998", "025DHINC025"

NMCVT-4990-C - Theoretical OBDH interrogation group - I

"Theoretical OBDH interrogation group" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - From first up to third character is "type of system element number" (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character is "DHGR" (to refer to OBDH group),
 - Eighth character is IDCH01F ("C" for command),

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 27/69

- From ninth up to eleventh character is IDIN03F,
- Be unique for a "type of system element".

For instance : "012DHGRC012", "998DHGRC998", "025DHGRC025"

NMCVT-5020-C - Real OBDH interrogation - I

"Real OBDH interrogation" identifier shall :

- Be of IDIN14F subtype with the following limitations :
 - From first up to eleventh character is "theoretical OBDH interrogation" identifier (IDIN11F - refer to NMCVT-4974-C)
 - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "012DHINC012012", "998DHINC998998", "025DHINC025025"

NMCVT-5044-C - Real OBDH interrogation group - I

"Real OBDH interrogation group" identifier shall :

- Be of IDCH14F subtype with the following limitation :
 - From first up to eleventh character is "theoretical OBDH interrogation group" identifier (IDCH11F - refer to NMCVT-4990-C),
 - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "012DHGRC012012", "998DHGRC998998", "025DHGRC025025"

NMCVT-5060-C - OBDH interrogation direct definition - I

"OBDH interrogation direct definition" identifier shall :

- Be of IDIN14F subtype with the following limitations :
 - From first up to eleventh character is "pseudo OBDH interrogation" identifier (IDIN11F - refer to NMCVT-4974-C)
 - From eighth up to tenth character is "pseudo position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "999DHINC012999", "999DHINC998999", "999DHINC025999"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 28/69

NMCVT-5080-C - OBDH interrogation group direct definition - I

"OBDH interrogation group direct definition" identifier shall :

- Be of IDCH14F subtype with the following limitation :
 - From first up to eleventh character is "pseudo OBDH interrogation group" identifier (IDCH11F - refer to NMCVT-4990-C),
 - From twelfth up to fourteenth character is "pseudo position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "999DHGRC012999", "999DHGRC998999", "999DHGRC025999"

4.6 Parameters

NMCVT-5110-C - Theoretical parameter - I

"Theoretical parameter" identifier shall :

- Be of IDCH04F subtype with the following limitations :
 - First character is IDE201F,
 - From second up to fourth character is IDCH03F,
- Be unique for a "type of system element".

For instance : "M012", "PABC", "D998", "U025"

NMCVT-5126-C - Theoretical parameter group - I

"Theoretical parameter group" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - From first up to third character is "type of system element number" (IDIN03F - refer to NMCVT-4040-C),
 - From fourth up to seventh character is "PAGR" (to refer to parameter group),
 - Eighth character is IDCH01F ("A" for Acquisition, "C" for Command, "U" for User, "Z" for System), "D" for Derived, "W" for Condition)
 - From ninth up to eleventh character is IDIN03F,
- Be unique for a "type of system element".

For instance : "012PAGRC012", "998PAGRU998", "025PAGRW025"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 29/69

NMCVT-5130-C - Real parameter - I

"Real parameter" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is subsystem identifier (IDCH01F - refer to NMCVT-4113-C),
 - From second up to fifth character is "theoretical parameter" identifier (IDCH04F - refer to NMCVT-5110-C),
 - From sixth character up to eighth character is "position identifier" (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AM012012", "DPABC012", "YD998998", "HU025025"

NMCVT-5150-C - Parameter direct definition - I

"Parameter direct definition" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "pseudo subsystem" identifier (IDCH01F - refer to NMCVT-4113-C), (TBC : could be subsystem identifier),
 - From second up to fifth character is "pseudo theoretical parameter" identifier (IDCH04F - refer to NMCVT-5110-C),
 - From sixth up to eighth character is "pseudo position identifier" (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a real model.

For instance : "ZM012999", "ZPABC999", "ZD998999", "ZU025999"

NMCVT-5160-C - Real parameter group - I

"Real parameter group" identifier shall :

- Be of IDCH14F subtype with the following limitation :
 - From first up to eleventh character is "theoretical parameter group" identifier (IDCH11F - refer to NMCVT-5126-C),
 - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "012PAGRC012012", "998PAGRU998998", "025PAGRW025025"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 30/69

NMCSV-5175-C - Parameter group direct definition - I

"Parameter group direct definition" identifier shall :

- Be of IDCH14F subtype with the following limitation :
 - From first up to eleventh character is "pseudo parameter group" identifier (IDCH11F - refer to NMCVT-5126-C),
 - From twelfth up to fourteenth character is "pseudo position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "999PAGRC012999", "999PAGRU998999", "999PAGRW025999"

4.7 Curves

NMCSV-5360-C - Theoretical curve - I

"Theoretical curve" identifier shall :

- Be of IDIN06F subtype with the following limitations :
 - From first up to third character is "type of system element" number (IDIN03F - refer to requirement NMCVT-4040-C),
 - fourth to sixth character is IDIN03F (unique for "type of system element"),
- Be unique for a "type of system element".

For instance : "012012", "998998", "025025"

Note : to identify uniquely a curve the type (Analogue or digital) and subtype (for analogue only : polynomial or discrete) of curve shall be provided - In order to be in line with RD1.

NMCSV-5370-C - Real curve - I

"Real curve" identifier shall :

- Be of IDIN09F subtype with the following limitations :
 - from first to sixth character is "theoretical curve" identifier (IDIN06F - refer to 5360-C),
 - From seventh to ninth character is "real element" number (IDIN03F - refer to NMCVT-4060-C),
- Be unique for a "real element".

For instance : "012012012", "998998998", "025025025"

NMCSV-5380-C - Curve direct definition - I

"Curve direct definition" identifier shall :

- Be of IDIN09F subtype with the following limitations :

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 31/69

- from first to sixth character is "pseudo theoretical curve" identifier (IDIN06F - refer to 5360-C),
- From seventh to ninth character is "pseudo real element" number (IDIN03F - refer to NMCVT-4060-C),
- Be unique for a "real element".

For instance : "999012999", "999998999", "999025999"

4.8 Displays

The following naming convention for displays is such that the implementation of theoretical displays and direct definition (even if not specified in HPSDB specification) will be possible (the two last characters always reflect the "position number") as it is for TC packets or parameters (8 characters).

NMCVT-6100-C - Alphanumeric display - I

"Alphanumeric display" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMVCT-4113-C),
 - Second character is "A",
 - From third up to fifth character is IDCH03F,
 - From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AA012012", "AAABC012", "YA998998", "HA025025"

NMCVT-6110-C - Graphic display - I

"Graphic display" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMVCT-4113-C),
 - Second character is "G",
 - From third up to fifth character is IDCH03F,
 - From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AG012012", "AGABC012", "YG998998", "HG025025"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 32/69

NMCVT-6120-C - Alphanumeric mimic display - I

"alphanumeric mimic display" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMCVT-4113-C),
 - From second up to third character is "AM",
 - From fourth up to fifth character is IDCH02F,
 - from sixth to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AAM01012", "AAMAB012", "YAM98998", "HAM25025"

NMCVT-6125-C - Mimic display diagram - I

"Mimic display diagram" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMCVT-4113-C),
 - From second up to third character is "AD",
 - From fourth up to fifth character is IDCH02F,
 - from sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AAD01012", "AADAB012", "YAD98998", "HAD25025"

NMCVT-6130-C - Scrolling display - I

"Scrolling display" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - First character is "subsystem" identifier (IDCH01F- refer to NMCVT-4113-C),
 - Second character is "L",
 - From third up to fifth character is IDCH03F,
 - From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4117-C),
- Be unique for a "real model".

For instance : "AL012012", "ALABC012", "YL98998", "HL025025"

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 33/69

5. GENERAL ALLOCATION REQUIREMENT

TBW

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 34/69

6. DETAIL ALLOCATION REQUIREMENTS

6.1 Subsystems

NMCVT-7500-C - Subsystem identifiers allocation - I

The subsystem identifiers allocation shall be as follows :

Subsystem identifier	Herschel	Planck
- "A"	AOCMS	AOCMS
- "B"	ACC software	ACC software
- "C"	RCS	RCS
- "D"	CDMS	CDMS
- "E"	CDMS software	CDMS software
- "F"	Frame structure	Frame structure
- "G"	Spare	Spare
- "H"	HIFI	HFI
- "J"	System	System
- "K"	Kryo	Spare
- "L"	Spare	LFI
- "M"	Radiation monitor	Radiation monitor
- "N"	Spare	Spare
- "P"	PACS	Spare
- "R"	Radio frequency (TT&C)	Radio frequency (TT&C)
- "S"	SPIRE	Sorption cooler
- "T"	Thermal control	Thermal control
- "U"	Spare	Spare
- "V"	Visual monitor camera	Visual monitor camera
- "W"	Electrical power	Electrical power
- "X"	STR software	Spare
- "Y"	EGSE	EGSE
- "Z"	Pseudo subsystem	Pseudo subsystem

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 35/69

6.2 Type of system elements

The following list has to be completed.

NMCVT-7510-C - Type of system element allocation - I

The type of system element identifier and corresponding type of system element number allocation shall be as follows (As far as it is not sure that the element described hereafter will be in fact composed of several type of system elements (mainly for instruments) the allocated number are given as range - in addition, for information, is provided the number of real corresponding equipment per spacecraft model and the associated subsystem) :

Type of system element identifier	Type of system element number	Element number for		
		Herschel	Planck	Subsystem
- "ACC"	[001-009]	1	1	A
- "GYRO"	[010-019]	1	0	A
- "STR"	[020-029]	2	0	A
- "RWE"	[030-039]	1	0	A
- "RW"	[040-049]	4	0	A
- "SAS-H"	[050-059]	2	0	A
- "FSS"	[060-069]	2	0	A
- "QRS"	[070-079]	2	2	A
- "STR_MAPPER"	[080-089]	0	1	A
- "AAD"	[090-099]	0	1	A
- "SAS-P"	[100-109]	0	3	A
- "ACC_SW_H"	[110-119]	1	0	B
- "ACC-SW_P"	[120-129]	0	1	B
- "RCS_H"	[130-139]	1	0	C
- "RCS_P"	[140-149]	0	1	C
- "CDMU"	[150-159]	1	1	D
- "CDMU_SW_H"	[160-169]	1	0	E
- "CDMU_SW_P"	[170-179]	0	1	E
- "FRAME_STR"	[180-189]	TBD	TBD	F
- "HIFI"	[190-239]	1	0	H
- "HFI"	[240-289]	0	1	H
- "SYSTEM"	[290-299]	TBD	TBD	J
- "CRYO_ELEC"	[300-309]	1	0	K

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 36/69

- "CRYOSTAT"	[310-319]	1	0	K
- "LFI"	[320-369]	0	1	L
- "RAD_MON"	[370-379]	TBD	TBD	M
- "PACS"	[380-429]	1	0	P
- "LGA"	[430-439]	2	3	R
- "MGA"	[440-449]	1	1	R
- "RFDN"	[450-459]	1	1	R
- "TWTA"	[460-469]	2	2	R
- "TRSP"	[470-479]	2	2	R
- "SPIRE"	[480-529]	1	0	S
- "SRP_COOLER"	[530-559]	0	1	S
- "THERMAL_H"	[600-749]	1	0	T
- "THERMAL_P"	[750-899]	0	1	T
- "VISUAL_MON"	[560-564]	TBD	TBD	V
- "PCDU"	[565-569]	1	1	W
- "BATTERY"	[570-574]	1	1	W
- "SOLAR_AR_H"	[575-579]	1	0	W
- "SOLAR_AR_P"	[580-584]	0	1	W
- "STR_SW"	[585-589]	1	0	X
- EGSE	[900-998]	1	1	Y
- "PSEUDO"	[999-999]	1	1	Z

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 37/69

6.3 Position

NMCVT-7510-C - Position allocation - I

The "position" identifier of different "type of system elements" belonging to a "system element model" shall be allocated as follows (A range, identical to the one provided for "type of system element" number is provided for each element and for the same reason - In addition, this table provides the 1553 bus and OBDH address) :

Type of system OBDH element identifier	Position Number	CDMS Bus 1553 address	CDMS Bus OBDH address	ACC Bus 1553 address	ACC Bus address
- "ACC"	[001-009]				
- "GYRO"	[010-019]				
- "STR1"	[020-029]				
- "STR2"	[020-029]				
- "RWE"	[030-039]				
- "RW1"	[040-049]				
- "RW2"	[040-049]				
- "RW3"	[040-049]				
- "RW4"	[040-049]				
- "SAS-H1"	[050-059]				
- "SAS-H2"	[050-059]				
- "FSS1"	[060-069]				
- "FSS2"	[060-069]				
- "QRS1"	[070-079]				
- "QRS2"	[070-079]				
- "STR_MAPPER"	[080-089]				
- "AAD"	[090-099]				
- "SAS-P1"	[100-109]				
- "SAS-P2"	[100-109]				
- "SAS-P3"	[100-109]				
- "ACC_SW "	[110-129]				
- "RCS"	[130-149]				
- "CDMU"	[150-159]				

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 01/02/2002

ISSUE : 01 / 00 Page : 38/69

- "CDMU_SW"	[160-179]
- "FRAME_STR"	[180-189]
- "HIFI"	[190-239]
- "HFI"	[240-289]
- "SYSTEM"	[290-299]
- "CRYO_ELEC"	[300-309]
- "CRYOSTAT"	[310-319]
- "LFI"	[320-369]
- "RAD_MON"	[370-379]
- "PACS"	[380-429]
- "LGA1"	[430-439]
- "LGA2"	[430-439]
- "LGA3"	[430-439]
- "MGA"	[440-449]
- "RFDN"	[450-459]
- "TWT1"	[460-469]
- "TWT2"	[460-469]
- "TRSP1"	[470-479]
- "TRSP2"	[470-479]
- "SPIRE"	[480-529]
- "SRP_COOLER"	[530-559]
- "THERMAL"	[600-899]
- "VISUAL_MON"	[560-564]
- "PCDU"	[565-569]
- "BATTERY"	[570-574]
- "SOLAR_AR"	[575-584]
- "STR_SW"	[585-589]
- EGSE	[900-998]
- "PSEUDO"	[999-999]

7. ATTRIBUTES REQUIREMENTS

7.1 Application ID

NMCVT-7500-C	-	Application identifier allocation	-	I
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The application identifiers allocation shall be as follows per subsystem :

According to RD3 annexe 3.

NMCVT-7600-C	-	Description	-	I
---------------------	---	--------------------	---	----------

The descriptions (long and short) shall :

- Consist of 26 letters of upper and lower case english alphabet A-Z, digits 0-9, 'space', plus and minus signs,
- Not contain a quote, double quote, accent, comma, colon, full-stop, and semi-colon,
- Not contain any special or non-printing character and in particular the under score unless it is absolutely necessary to define the data item,
- Be as readable as possible,
- Have an understandable abbreviations and acronyms,
- Not be left empty.

7.1.1 Short description

NMCVT-7610-C	-	Short description	-	I
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TBW

7.1.2 Long description

NMCVT-7620-C	-	Long description	-	I
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TBW

7.2 Software parameter identifier

NMCVT-7800-C	-	Software parameter identifier	-	I
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"Software parameter" identifier shall :

- Be of IDIN05F (limited to 65535) subtype with the following limitations :
 - Generated by software SDE and reloaded inside HPSDB.
- Be unique for a "software (CDMU or ACC) and real model".

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 40/69

8. ANNEX 1 : COMPLIANCE MATRIX WITH RD1

RD1	Naming convention	Compliance	Remarks
<p>General Conventions There shall be logically distinct databases for Herschel and Planck – this implies that the same naming conventions may be used for both Herschel and Planck. The naming convention will not provide the means for the logical distinction.</p>		C	Supported by AD1
<p>A4.1 Field width constraints See AD-8.</p>		PC	To be detailed during HPSDB development
<p>A4.2 Descriptions Many tables in AD-8 include a descriptive field. This should be human-readable and gives further information on the record. The description provided for any data item should:</p> <ul style="list-style-type: none"> • Consist of 26 letters of upper and lower case English alphabet A-Z, digits 0-9 and 'space', and the plus and minus signs; • Not contain a quote, double-quote, accent, comma, colon, full-stop or semi-colon; • Not contain any special or non-printing character and in particular the under score unless it is absolutely necessary to define the data item; • Be as readable as possible; • Have understandable abbreviations and acronyms; • Not be left empty. 	NMCVT-7600-C	C	

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 41/69

RD1	Naming convention	Compliance	Remarks
<p>A4.3 Subsystem identifiers Subsystem identifiers are used to uniquely identify the relevant spacecraft subsystem for the data item in question. For the Herschel-Planck project the following identifiers have been defined (TBC when system definition complete):</p>	NMCVT-4113-C	C	The following subsystems have been added : "C" for RCS "K" for Herschel CRYO "Y" for EGSE "Z" for pseudo (due to HPsDB)
A + B for Attitude and Orbit Control Subsystem (AOCS)	NMCVT-7500-C	PC	A : compliant B : not compliant
D + E for On-Board Data Handling Subsystem (CDMS)	NMCVT-7500-C	PC	D : compliant E : Not compliant
J for system	NMCVT-7500-C	C	To be clarify
W for Electrical Power Subsystem (PS or EPSS)	NMCVT-7500-C	C	
R for Radio Frequency Subsystem (TT&C)	NMCVT-7500-C	C	
T for Thermal Control Subsystem (TCS)	NMCVT-7500-C	C	
M for Radiation Monitor	NMCVT-7500-C	C	To be clarify
V for Visual Monitor Camera	NMCVT-7500-C	C	
F for Frame- structure etc.	NMCVT-7500-C	C	To be clarify
A for ACC Software Parameters	NMCVT-7500-C	NC	Set to B instead of A
C for CDMS Software Parameters	NMCVT-7500-C	NC	Set to E instead of C

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 42/69

RD1	Naming convention	Compliance	Remarks
X for Star Tracker Software Parameters	NMCVT-7500-C	C	
H for HIFI	NMCVT-7500-C	C	
P for PACS	NMCVT-7500-C	C	
S for SPIRE	NMCVT-7500-C	C	
H for HFI	NMCVT-7500-C	C	
L for LFI	NMCVT-7500-C	C	
S for Sorption Cooler Subsystem	NMCVT-7500-C	C	
The Char 8 fields shall have the following format: The first character shall be a sub-system identifier selected from the above list as appropriate. The second character shall be a function specifier, as indicated in the following table. The remaining characters shall consist of the digits 0-9 inclusive and the 23 uppercase letters of the English alphabet (A-Z without the letters O, Q, or I, to minimise the likelihood of transcription errors when these are typed manually).		PC	The plus, minus, underscore, dash and dot characters are also allowed (NMCVT-0100-C) according to RD2 chapter 3.3 third bullet.
Parameter identifier (ground) : PCF_NAME Char 8 M, C,D (C for Constants D for Synthetic Parameters)	NMCVT-5130-C	PC	➤ Other function specifier have been added (NMCVT-0110-C - Subtype IDE201F) : ➤ "K" for constante ("C" is used for TC" ➤ "Z" for system parameters

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 43/69

RD1	Naming convention	Compliance	Remarks
			<ul style="list-style-type: none"> ➤ "U" for user parameters ➤ The "type of data" is the sixth character instead of eighth.
Parameter identifier (on-board) PCF_PID N10	NMCVT-7800-C	C	Warning : in RD3 (PSICD) the software parameter is coded on 16 bits so cannot be greater than 65535 (N5).
Monitoring numerical curve identifier CAF_NUMBR N4	NMCVT-5370-C	NC	N9 instead of N4
monitoring texte curve identifier TXF_NUMBR N4	NMCVT-5370-C	NC	N9 instead of N4
monitor polynomial curve identifier MCF_IDENT N4	NMCVT-5370-C	NC	N9 instead of N4
Monitor packet identifier (fixed length) PID_SPID N10	NMCVT-4380-C	C	
Monitor packet identifier (variable length) PID_TPSD N10	NMCVT-4380-C	C	
Alphanumeric display DPF_NUMBE Char8 A (AM - <i>Displays created to feed data for a Mimic shall use Function Specifier AM</i>)	NMCVT-6100-C	C	
Grphic display identifier	NMCVT-6110-C	C	

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 44/69

RD1	Naming convention	Compliance	Remarks
GPF_NUMBE Char8 G			
Scrolling display identifier SCF_NUMBE Char8 L	NMCVT-6130-C	C	
TC packet header TCP_ID Char8 X	NMCVT-4505-C	C	To be confirmed
TC packet header parameter PCPC_PNAME Char8 Y	NMCVT-5130-C	PC	Defined as any other parameters
TC packet identifier CCF_CNAME Char8 C	NMCVT-4580-C	C	
Command parameter CPC_PNAME Char8 P	NMCVT-5130-C	C	
Command sequence CSF_NAME Char8 S	NMCVT-4660-C	C	
Command sequence formal parameter CSP_FPNAME Char8 F		C	

Naming Convention Specification

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 45/69

RD1	Naming convention	Compliance	Remarks
Verification stage identifier CVS_ID N5		PC	Via expected effect of TC
Command parameter set PST_NAME Char8 T		C	
Command parameter set value PSV_PVSID Char8 V		C	
Command numerical curve CCA_NUMBR N4	NMCVT-5370-C	NC	N9 instead of N4
Command textual curve PAF_NUMBR N4	NMCVT-5370-C	NC	N9 instead of N4
Command sequence parameter range check PRF_NUMBR N4		NC	As for curve the N4 length is too limited.
N10 => Ten digit number N such that $0 < N < 2^{32} - 1$		NC	Non-duplication guaranty by HPSDB instanciations
N5 => Five digit number 00000 - 32767		NC	Non-duplication guaranty by HPSDB instanciations
N4 => Four digit number 0001 - 9999		NC	Non-duplication guaranty by HPSDB instanciations
Char8 => Eight Character alphanumeric identifier intended for Human use.	NMCVT-0110-C	C	
N4 : 1 000 - 1 999 HIFI HFI		NC	Non-duplication guaranty

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 46/69

RD1	Naming convention	Compliance	Remarks
			by HPSDB instanciations
N4 : 2 000 - 2 999 PACS LFI		NC	Non-duplication guaranty by HPSDB instanciations
N4 : 3 000 - 3 999 SPIRE Sorption Cooler Subsystem		NC	Non-duplication guaranty by HPSDB instanciations
N4 : 4 000 - 8 999 Alcatel		NC	Non-duplication guaranty by HPSDB instanciations
N4 : 9 000 - 9 999 ESOC		NC	Non-duplication guaranty by HPSDB instanciations
N5 : 00 001- 02 999 HIFI HFI		NC	Non-duplication guaranty by HPSDB instanciations
N5 : 03 000- 05 999 PACS LFI		NC	Non-duplication guaranty by HPSDB instanciations
N5 : 06 000 - 08 999 SPIRE Sorption Cooler Subsystem		NC	Non-duplication guaranty by HPSDB instanciations
N5 : 09 000 - 19 999 Alcatel		NC	Non-duplication guaranty by HPSDB instanciations
N5 : 20 000 - 29 999 ESOC		NC	Non-duplication guaranty by HPSDB instanciations
N10 : 10 000 000 -19 999 999 HIFI HFI		NC	Non-duplication guaranty by HPSDB instanciations
N10 : 20 000 000 -29 999 999 PACS LFI		NC	Non-duplication guaranty by HPSDB instanciations

Naming Convention Specification

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 47/69

RD1	Naming convention	Compliance	Remarks
N10 : 30 000 000 -39 999 999 SPIRE Sorption Cooler Subsystem		NC	Non-duplication guaranty by HPSDB instanciations
40 000 000 - 79 999 999 Alcatel		NC	Non-duplication guaranty by HPSDB instanciations
80 000 000 - 99 999 999 ESOC		NC	Non-duplication guaranty by HPSDB instanciations
Experience indicates that it can also be very useful to indicate the type of data being communicated by a telemetry item or the destination of a command. For example T for a temperature, V for a voltage, C for a current, D for a discrete hardware measurement, W for a software parameter if a separate identifier has not been made available. This type information should be the final character of the Designator, when supplied.	NMCSV-0110-C	NC	Impossible to comply with this request (not mandatory) and some identifier length too short (TC packet, Parameters, ...)
A4.4 Telemetry Packet Packet identifiers shall be allocated on the basis of the source of the packet. Example 10000003 could be defined by HIFI	NMCSV-4380-C	NC	Non-duplication guaranty by HPSDB instanciations
A4.5 Command Master Function Number: Example: AC0001 (Command number for the AOCS subsystem)	NMCSV-4580-C	C	Warning : the example looks wrong : 6 characters.
A4.5.1 Command Parameter Reference Number, (PREF): Example: AP0001 (Command parameter for the AOCS subsystem) Please note that the command parameter name is not used to link it to any given command packet because they can be used in many different packets and therefore are not unique across them. They are unique within their own table and therefore no two-command parameters can share the same name.	NMCSV-5130-C	C	Warning : the example looks wrong : 6 characters and no "type of parameter".

Naming Convention Specification

RD1	Naming convention	Compliance	Remarks
A4.5.2 Command Sequences: Command sequences shall be identified the subsystem identifier and the letter S for sequence. For example AS123 is a sequence for the AOCS subsystem. Example: AS001svt	NMCVT-4660-C	C	Warning : the example looks wrong : 6 characters.
A4.6 Telemetry Parameters A telemetry parameter shall be the relevant subsystem code letter and followed by the data type. Example: AM1234	NMCVT-5130-C	C	Warning : the example looks wrong : 6 characters.
A4.6.1 Derived or Synthetic Parameters: Derived parameters shall be identified by the subsystem identifier followed by the letter D (Derived or Synthetic) followed by a four-digit unique number derived parameter type designator T and a four-digit unique number and.) Where T can be: S – Saved (Supported by the system) H - Hard coded (Needs C++ complier.) D – Dynamic (Most common. Supported directly by the editor application) Example: ADD0004 (Leading zeros are required) ADS1234 All synthetic parameters must be defined in the telemetry database.	NMCVT-5130-C	PC	Warning : requirement unclear, but potential modification of naming convention for "T" code" ??? Warning : the example looks wrong : 6 characters.
A4.6.3 Constant Parameters: Constant parameters shall be identified by the subsystem identifier followed by the letter C (Constant) followed by a four-digit unique number. (i.e. AC1234)	NMCVT-5130-C	C	Warning : the example looks wrong : 6 characters.
A4.7.1 Alphanumeric Displays (AND): AND naming shall use the subsystem identifier followed by the letter A (e.g. AA1234)	NMCVT-6100-C	C	Warning : the example looks wrong : 6 characters.
A4.7.2 Graphical Displays (GRD): GRD naming shall use the subsystem identifier followed by the letter	NMCVT-6110-C	C	Warning : the example

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 49/69

RD1	Naming convention	Compliance	Remarks
G (e.g. AG1234)			looks wrong : 6 characters.
A4.7.3 Mimic Alphanumeric Displays: Mimic alphanumeric displays (One Mimic alphanumeric display must be defined for each Mimic Diagram created) use the subsystem identifier followed by AM (e.g. AAM1234).	NMCVT-6120-C	C	Warning : the example looks wrong : 6 characters.
A4.7.4 Mimic Display Diagrams (MDD): MDD naming shall use the subsystem identifier followed by the function specifier AD (i.e. AAD1234)	NMCVT-6125-C	C	Warning : the example looks wrong : 6 characters.
A4.7.5 Scrolling Log Displays (SLD): SLD naming shall use the subsystem identifier followed by the function specifier L followed by a four-digit number (i.e. AL1234)	NMCVT-6130-C	C	Warning : the example looks wrong : 6 characters.
A4.8 Convention to be used for Procedures: Subsystem Identifier TBC.: AOC for AOCS DHS for CDMS EPS for Power TCS for TCS TTC for RF part of command, telemetry and tracking RM for Radiation Monitor VMC for Visual Monitoring Camera OBS for On-Board Software procedures SYS for Systems Procedures MPP for Mission Planning Procedures PAC for PACS HIF for HIFI SPI for SPIRE HFI for HFI LFI for LFI		NC	Not covered by HPSDB tool

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 50/69

RD1	Naming convention	Compliance	Remarks
SOR for Sorption Cooler System			
A4.8.1 Flight Control Procedures, FCP: FCP's shall be referenced using a four-digit number preceded by FCP_ and the relevant subsystem identifier followed by 'underscore' (i.e. FCP_AOC_1234) Note: leading zeros are required (i.e. FCP_AOC_0001)		NC	Not covered by HPSDB tool
A4.8.2 Contingency Recovery Procedures: CRP's shall be referenced using four digit number preceded by CRP_ and the relevant subsystem identifier followed by underscore' (i.e. CRP_AOC_1234) Note: leading zeros are required (i.e. CRP_AOC_0001)		NC	Not covered by HPSDB tool
A4.8.3 Timelines: The character string TDoyFfNn shall identify Timelines as follows: Where: T = Timeline Doy = Day of Year Ff = File number Nn = Version number		NC	Not covered by HPSDB tool To be clarify.

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 51/69

9. SUMMARY

9.1 Configuration

NMVCT-4030-C

Type of system element															
IDCH11F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4040-C

Type of system element															
IDIN03F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4050-C

real element															
Type of system											Real element				
IDCH11F											IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4060-C

Real element number															
IDIN03F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 52/69

NMVCT-4075-C

Element direct definition															
Type of system											Pseudo real element				
IDCH11F											9	9	9		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4100-C

System element model															
IDCH10F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4111-C

System element model direct definition															
IDCH10F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4113-C

Subsyst.															
IDCHO1F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4117-C

Position															
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Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 53/69

IDIN03F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4120-C

real model															
System element model										real model					
IDCH10F										IDIN02F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4130-C

Real model															
IDIN02															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

9.2 Telemetry packets

NMVCT-4305-C

TM packet standard template															
Subsyst.						IDIN04F									
Z	X	T	M	S	D										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4320-C

TM packet PSICD template															
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Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 54/69

Subsyst.						type		subtype							
Z	X	T	M	P	S	IDIN02F		IDIN02F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4340-C

Theoretical TM packet																
Type of system element																
IDIN03F			IDIN04F													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4360-C

Theoretical TM structure																
type of system element																
IDIN03F			T	M	S	T	IDIN04F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4374-C

Theoretical TM packet group																
type of system element																
IDIN03F			T	M	G	R	IDIN04F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4380-C

Real TM packet															
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Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 55/69

Theoretical TM packet							Position								
Type of system element															
IDIN03F			IDIN04F				IDIN03F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4400-C

Real TM structure															
Theoretical TM structure											Position				
type of system element															
IDIN03F			T	M	S	T	IDIN04F			IDIN03F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4420-C

Real TM packet group															
Theoretical TM packet group											Position				
type of system element															
IDIN03F			T	M	G	R	IDIN04F			IDIN03F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4440-C

TM packet direct definition															
Pseudo theoretical TM packet											Pseudo position				
Pseudo type of system elem.															
9	9	9	IDIN04F				9	9	9						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 56/69

NMVCT-4450-C

TM structure direct definition															
Pseudo theoretical TM structure											Pseudo position				
Pseudo type of system elem.							IDIN04F								
9	9	9	T	M	S	T	IDIN04F				9	9	9		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4455-C

TM packet group direct definition															
Pseudo theoretical TM packet group											Pseudo position				
Pseudo type of system elem.							IDIN04F								
9	9	9	T	M	G	R	IDIN04F				9	9	9		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

9.3 Telecommand packets

NMVCT-4505-C

TC packet standard template																			
Subsyst.						IDIN04F													
Z	X	T	C	S	D	IDIN04F													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				

NMVCT-4520-C

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 57/69

TC packet PSICD template															
Subsyst.						type		subtype							
Z	X	T	C	P	S	IDIN02F		IDIN02F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4540-C

Theoretical TC packet															
Function															
C	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4560-C

Theoretical TC structure															
type of system element															
IDIN03F			T	C	S	T	IDIN04F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4574-C

Theoretical TC packet group															
type of system element															
IDIN03F			T	C	G	R	IDIN04F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4580-C

Naming Convention Specification

Real TC packet																
Subsyst.	Theoretical TC packet					Position										
	Function															
IDCH01F	C	IDCH03F			IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4600-C

Real TC structure															
Theoretical TC structure												Position			
type of system element															
IDIN03F			T	C	S	T	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4620-C

Real TC packet group															
Theoretical TC packet group												Position			
type of system element															
IDIN03F			T	C	G	R	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4640-C

TC packet direct definition																
Pseudo theoretical TC packet																
Pt. SS	Function				Pseudo position											
Z	C	IDCH03F			9	9	9									

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 59/69

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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NMVCT-4650-C

TC structure direct definition															
Pseudo theoretical TC structure											Pseudo position				
Pseudo type of system elem.															
9	9	9	T	C	S	T	IDIN04F				9	9	9		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4655-C

TC packet group direct definition															
Pseudo theoretical TC packet group											Pseudo position				
Pseudo type of system elem.															
9	9	9	T	C	G	R	IDIN04F				9	9	9		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4660-C

Command sequence																					
Subsyst.						Position															
	Function																				
IDCH01F	S	IDCH03F				IDIN03F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16						

NMVCT-4680-C

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 60/69

Command sequence formal parameter																
Subsyst.						Position										
	Function															
IDCH01F	F	IDCH03F					IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4685-C

Command parameter set																
Subsyst.						Position										
	Function															
IDCH01F	T	IDCH03F					IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4690-C

Command parameter set value																
Subsyst.						Position										
	Function															
IDCH01F	V	IDCH03F					IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4695-C

TBD

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 61/69

9.4 1553 messages

NMVCT-4705-C

1553 message template															
Ps. SS															
Z	X	B	U	S	D	IDIN04F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4725-C

1553 status word															
Subsyst.						RT address		Subaddress							
IDCH01F	X	B	U	S	W	IDIN02F		IDIN02F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4740-C

Theoretical 1553 message															
Type of system element							A/C								
IDIN03F			B	U	M	G	IDCH01F	IDIN03F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4760-C

Theoretical 1553 structure															
type of system element							A/C								
IDIN03F			B	U	S	T	IDCH01F	IDIN03F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 62/69

NMVCT-4774-C

Theoretical 1553 message group															
type of system element							A/C								
IDIN03F			B	U	G	R	IDCH01F	IDIN03F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4780-C

Real 1553 message															
Theoretical 1553 message											Position				
Type of system element							A/C								
IDIN03F			B	U	M	G	IDCH01F	IDIN03F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4800-C

Real 1553 structure															
Theoretical 1553 structure											Position				
type of system element							A/C								
IDIN03F			B	U	S	T	IDCH01F	IDIN03F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4820-C

Real 1553 message group														
Theoretical 1553 message group											Position			

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 63/69

type of system element							A/C								
IDIN03F			B	U	G	R		IDIN03F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-4840-C

1553 message direct definition																
Pseudo theoretical 1553 message											Pseudo position					
Pseudo type of system elem.							A/C									
9	9	9	B	U	M	G	IDCH01F	IDIN03F			9	9	9			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4850-C

1553 structure direct definition																
Pseudo theoretical 1553 structure											Pseudo position					
Pseudo type of system elem.							A/C									
9	9	9	B	U	S	T	IDCH01F	IDIN03F			9	9	9			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4860-C

1553 message group direct definition																
Pseudo theoretical 1553 message group											Pseudo position					
Pseudo type of system elem.							A/C									
9	9	9	B	U	G	R	IDCH01F	IDIN03F			9	9	9			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 64/69

9.5 OBDH interfaces

NMVCT-4974-C

Theoretical OBDH interrogation																
Type of system element							A/C									
IDIN03F			D	H	I	N	C	IDIN03F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-4990-C

Theoretical OBDH interrogation group																
type of system element							A/C									
IDIN03F			D	H	G	R	C	IDIN03F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-5020-C

Real OBDH interrogation															
Theoretical OBDH interrogation											Position				
Type of system element							A/C								
IDIN03F			D	H	I	N	C	IDIN03F				IDIN03F			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-5044-C

Real OBDH interrogation group															

Naming Convention Specification

Theoretical OBDH interrogation group											Position				
type of system element							A/C								
IDIN03F			D	H	G	R	C	IDIN03F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-5060-C

OBDH interrogation direct definition																
Pseudo theoretical OBDH interrogation											Pseudo position					
Pseudo type of system elem.							A/C									
9	9	9	D	H	I	N	C	IDIN03F			9	9	9			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-5080-C

OBDH interrogation group direct definition																
Pseudo theoretical OBDH interrogation group											Pseudo position					
Pseudo type of system elem.							A/C									
9	9	9	D	H	G	R	C	IDIN03F			9	9	9			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

9.6 Parameters

NMVCT-5110-C

Theoretical parameter															
Function															
IDE201F	IDCH03F														

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 66/69

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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NMVCT-5126-C

Theoretical parameter group																
type of system element								A/C								
IDIN03F			P	A	G	R	IDCH01F	IDIN03F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-5130-C

Real parameter															
Subsyst..	Theoretical parameter				Position										
	Function														
IDCH01F	IDE201F	IDCH03F			IDCIN3F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-5150-C

Parameter direct definition															
Pseu. SS	Pseudo theoretical parameter				Pseudo position										
	Function														
Z	IDE201F	IDCH03F			9	9	9								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-5160-C

Real parameter group												
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Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 67/69

Theoretical parameter group											Position					
type of system element							A/C									
IDIN03F			P	A	G	R	IDCH01F	IDIN03F			IDIN03F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-5175-C

Parameter group direct definition																
Pseudo theoretical parameter group											Pseudo position					
Pseudo type of system elem.							A/C									
9	9	9	P	A	G	R	IDCH01F	IDIN03F			9	9	9			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

9.7 Curves

NMVCT—5360C

Theoretical curves																
Type of system element number																
IDIN03F			IDIN03F													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT—5370C

Real curves																
Theoretical curve							Real element number									

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 68/69

Type of system element number															
IDIN03F			IDIN03F			IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-5380-C

Curves direct definition															
Pseudo theoretical curve						Pseudo real element number									
Pseudo Type of system element nb															
9	9	9	IDIN03F			9	9	9							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

9.8 Displays

NMVCT-6100-C

Alphanumeric display															
Subsyst.	Function				Position										
IDCH01F	A	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-6110-C

Graphic display															
Subsyst.	Function				Position										
IDCH01F	G	IDCH03F			IDIN03F										

Naming Convention Specification

REFERENCE : H-P-1-ASPI-SP-0141

DATE : 16/11/2001

ISSUE : 01 / 00D2 Page : 69/69

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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NMVCT-6120-C

Alphanumeric mimic display															
Subsyst.	Function					Position									
IDCH01F	A	M	IDCH02F			IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-6125-C

Mimic diagram display															
Subsyst.	Function					Position									
IDCH01F	A	D	IDCH02F			IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-6030-C

Scrolling display															
Subsyst.	Function					Position									
IDCH01F	L	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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