

Naming Convention Specification

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DATE : 23/04/2007

ISSUE : 03 Page : 1/186



	HERSCHEL / PLANCK TEAM	Date	Signature
Rédigé par/Written by	F. CHATTE	23/04/07	
Vérifié par/Verified by	P. RIDEAU	8/6/07	
Vérifié par/Verified by	T. GRASSIN	8/6/07	
Vérifié par/Verified by	ESA	5/6/07	
Approbation/Approved	J.J. JUILLET	8/6/07	

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

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 2/158

HERSCHEL/PLANCK		DISTRIBUTION RECORD	
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Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 3/158

ENREGISTREMENT DES EVOLUTIONS / CHANGE RECORDS

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
01/00	01/02/02	Issue 01 - Revision 00	F. Chatte
01/01	15/03/02	<p>Issue 01 - revision 01</p> <p>General</p> <p>. All examples modified to separate the different fields (separator = "/")</p> <p>. Element direct definition modified to support subsystem or system pseudo identifiers : use of "subsystem pseudo type of system element" and "subsystem pseudo position" in case of "direct definition" limited to a subsystem else, in case of "direct definition" not limited to a subsystem, then use of "pseudo subsystem", "system pseudo type of system element" and "system pseudo position". This is to be compliant with remarks from PACS and to potential other similar needs.</p> <ul style="list-style-type: none"> Ø NMCVT-4075-C Deleted (Element) Ø NMCVT-4111-C deleted (Model) Ø NMCVT-4440-C Modified (TM) Ø NMCVT-4450-C Modified " Ø NMCVT-4455-C Modified " Ø NMCVT-4640-C Modified (TC) Ø NMCVT-4650-C Modified " Ø NMCVT-4655-C Modified " Ø NMCVT-4840-C Modified (1553) Ø NMCVT-4850-C Modified " Ø NMCVT-4860-C Modified " Ø NMCVT-5060-C Modified (OBDH) Ø NMCVT-5080-C Modified " Ø NMCVT-5150-C Modified (Parameter) Ø NMCVT-5175-C Modified " Ø NMCVT-5380-C Modified (Curves) Ø NMCVT-7510-C Modified (Pseudo TOSE allocation) Ø NMCVT-7520-C Modified (Pseudo position allocation) Ø Summary updated accordingly <p>. Real definition and direct definition of "logical data" to be unique for "system element model" instead of "real element"</p> <ul style="list-style-type: none"> Ø NMCVT-4380-C Modified (TM) Ø NMCVT-4400-C Modified " Ø NMCVT-4420-C Modified " Ø NMCVT-4440-C Modified " Ø NMCVT-4450-C Modified " Ø NMCVT-4455-C Modified " Ø NMCVT-4580-C Modified (TC) 	F. Chatte

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 4/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
		<p> Ø NMCVT-4600-C Modified " Ø NMCVT-4620-C Modified " Ø NMCVT-4640-C Modified " Ø NMCVT-4650-C Modified " Ø NMCVT-4655-C Modified " Ø NMCVT-4780-C Modified (1553) Ø NMCVT-4800-C Modified " Ø NMCVT-4820-C Modified " Ø NMCVT-4840-C Modified " Ø NMCVT-4850-C Modified " Ø NMCVT-4860- C Modified " Ø NMCVT-5020-C Modified (OBDH) Ø NMCVT-5044-C Modified " Ø NMCVT-5060-C Modified " Ø NMCVT-5080-C Modified " Ø NMCVT-5130-C Modified (Parameters) Ø NMCVT-5150-C Modified " Ø NMCVT-5160-C Modified " Ø NMCVT-5175-C Modified " Ø NMCVT-4450-C Modified " Ø NMCVT-4455-C Modified " </p> <p> Introduction (chapter 1) . Adding introduction (§1.1) </p> <p> Documents (Chapter 2) . HPSDB specification change from applicable document to reference document . Adding of acronyms . Adding of definition </p> <p> General requirements (Chapter 3) . Clarification on parameter function code . definition of pseudo subsystem, type of system element, position, ... Ø NMCVT-0110-C Modified Ø NMCVT-0200-C New Ø NMCVT-0300-C New Ø NMCVT-0400-C New </p> <p> Modification of TM packet identifier (IDIN09F instead of IDIN10F) Ø NMCVT-4114-C New Ø NMCVT-4340-C Modified Ø NMCVT-4380-C Modified Ø NMCVT-7500-C Modified </p> <p> Modification of PSICD templates Ø NMCVT-4320-C Modified (TM) Ø NMCVT-4520-C Modified (TC) </p> <p> Creation of theoretical command sequences Ø NMCVT-4657-C New </p>	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 5/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
		<p>Ø NMCVT-4660-C Deleted Ø NMCVT-4670-C New Ø NMCVT-4672-C New Ø NMCVT-4674-C New Ø NMCVT-4675-C New Ø NMCVT-4676-C New</p> <p>1553 template replace by 1553 command word Ø NMCVT-4705-C Modified</p> <p>Parameters :</p> <ul style="list-style-type: none"> . Suppression of groups type (acquisition / command) . Adding of parameter set definition . Adding of parameter set value definition . Adding of parameter range set definition <p>Ø NMCVT-5126-C Modified Ø NMCVT-5210-C New Ø NMCVT-5215-C New Ø NMCVT-5217-C New Ø NMCVT-5220-C New Ø NMCVT-5225-C New Ø NMCVT-5227-C New Ø NMCVT-5250-C New Ø NMCVT-5255-C New Ø NMCVT-5257-C New Ø NMCVT-4690-C Deleted Ø NMCVT-4695-C Deleted</p> <p>Curves</p> <p>Ø NMCVT-5120-C New Ø NMCVT-5355-C New Ø NMCVT-5360-C Modified Ø NMCVT-5365-C New Ø NMCVT-5370-C Modified Ø NMCVT-5375-C New Ø NMCVT-5380-C Deleted</p> <p>Displays</p> <ul style="list-style-type: none"> . Adding of theoretical display / suppression of mimic displays <p>Ø NMCVT-6050-C New Ø NMCVT-6100-C Deleted Ø NMCVT-6105-C New Ø NMCVT-6110-C Deleted Ø NMCVT-6120-C Deleted Ø NMCVT-6125-C Deleted Ø NMCVT-6128-C New Ø NMCVT-6130-C Deleted</p> <p>Modification of real display requirement Ø NMCVT-6150-C New</p> <p>Adding of display direct definition Ø NMCVT-6160-C New Ø NMCVT-6170-C New</p>	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 6/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
01/02	15/10/02	<p>Ø NMCVT-6200-C New</p> <p>Requirement numbering correction</p> <p>Ø NMCVT-7520-C instead of NMCVT-7510-C</p> <p>"Type of system element" changed by "theoretical element" "System element model" changed by "theoretical model"</p> <p>"... direct definition" change in "model ... definition" Ø all requirements previously titled "... direct definition".</p> <p>Update according to HPSSDB specification H-P-1-ASPI-SP-0082 issue 2.2.</p> <p>Due to the large number of changes and to Word crash, the change record has not been activated.</p> <p>All the existing requirements have been modified, but in a such a way that they are still compatible with previous issue of this document. This is mainly due to the addition of the subsystem level between the element and model levels.</p> <p>New requirements have been added mainly in what concerns :</p> <ol style="list-style-type: none"> 1. Subsystem level between element and model levels, 2. TM packet SCOS archiving (refer to SPID of SCOS), 3. Modification of TC template (to be compliant with SCOS), 4. Formal parameter identifier unique for a command sequence, 5. Addition of command verification stage, 6. 1553 status word being no more a generic data, 7. Generic parameters, 8. Constants. <p>The allocation tables (subsystem, element number, position, ...) have been modified in order to remain compatible with previous version but taking into account the subsystem level.</p> <p>Addition of instantiation of short description.</p> <p>Requirement NMCVT-100 change according to ESA remark ([+], [-] and [.] no more allowed in identifier name.</p>	F. Chatte

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 7/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
02/00D1	04/04/03	<p>Theoretical element number and position allocation (by subsystem instead of by element except for EGSE)</p> <ul style="list-style-type: none"> Ø NMCVT-7510-C modified Ø NMCVT-7520-C modified <p>Modifications due to the implementation of generic box according to the document HPSDB-Generic box (ref: H-P-1-ASP-TN-0474)</p> <ul style="list-style-type: none"> Ø NMCVT-0110-C modified Ø NMCVT-3980-C new Ø NMCVT-3985-C new Ø NMCVT-4305-C modified Ø NMCVT-4311-C new Ø NMCVT-4320-C modified Ø NMCVT-4332-C new Ø NMCVT-4356-C new Ø NMCVT-4358-C new Ø NMCVT-4394-C new Ø NMCVT-4396-C new Ø NMCVT-4441-C new Ø NMCVT-4442-C new Ø NMCVT-4461-C modified note Ø NMCVT-4505-C modified Ø NMCVT-4511-C new Ø NMCVT-4513-C new Ø NMCVT-4515-C new Ø NMCVT-4533-C new Ø NMCVT-4577-C new Ø NMCVT-4638-C modified note Ø NMCVT-4639-C new Ø NMCVT-4656-C modified note Ø NMCVT-4657-C new Ø NMCVT-4659-C is the new number of req. 4657 Ø NMCVT-4677-C new Ø NMCVT-4679-C is the new number of req. 4677 Ø NMCVT-4702-C new Ø NMCVT-4705-C modified Ø NMCVT-4711-C new Ø NMCVT-4714-C new Ø NMCVT-4716-C new Ø NMCVT-4726-C new Ø NMCVT-4780-C new Ø NMCVT-4841-C new Ø NMCVT-4865-C modified note Ø NMCVT-4961-C new Ø NMCVT-4965-C new Ø NMCVT-5106-C new Ø NMCVT-5201-C new Ø NMCVT-5218-C new Ø NMCVT-5245-C new Ø NMCVT-6040-C new Ø NMCVT-6042-C new Ø NMCVT-6044-C new 	F. Chatte

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 8/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
		<p>Introduction of unit list according to the fax HP-ASPI-LT-2562 (Action A9 of PDR)</p> <ul style="list-style-type: none"> Ø Paragraph "6.2 Unit" new Ø NMCVT-7630-C new Ø §8. units customisation : new <p>Introduction of 1553 acquisition command link identifier</p> <ul style="list-style-type: none"> Ø NMCVT-4713-C new Generic Ø NMCVT-4752-C new Element Ø NMCVT-4795-C new Subsystem Ø NMCVT-4845-C new Subsystem definition <p>Introduction of OBDH acquisition command link identifier</p> <ul style="list-style-type: none"> Ø NMCVT-4963-C new Generic Ø NMCVT-4977-C new Element Ø NMCVT-5040-C new Subsystem Ø NMCVT-5070-C new Subsystem definition <p>Specific requirements for instruments (refer to requirements 1, 2, 3 of fax H-P-ASP-LT-2607) :</p> <ul style="list-style-type: none"> Ø Chapter 1 modified Ø NMCVT-4677-Instruments-C new CVS Ø NMCVT-5245-Instruments-C new Range set Ø NMCVT-5355-Instruments-C new Curve <p>Specific requirements for instruments :</p> <ul style="list-style-type: none"> Ø NMCVT-9000-Instruments-C new Curve Ø NMCVT-9010-Instruments-C new range set Ø NMCVT-9020-Instruments-C new CVS Ø NMCVT-9030-Instruments-C new UDC Ø NMCVT-9040-Instruments-C new Constant packet Ø NMCVT-9050-Instruments-C new SPID and TPSD Ø NMCVT-9060-Instruments-C new PCF_WIDTH Ø NMCVT-9070-Instruments-C new Position code Ø NMCVT-9080-Instruments-C new On-board ID <p>Dynamic UDC (User Defined Constant) allocation (refer to requirement 4 of fax H-P-ASP-LT-2607)</p> <ul style="list-style-type: none"> Ø NMCVT-7530-C new Generic <p>New reference document : RD5</p> <p>Update of chapter 7 (Annex 1 : compliance matrix with OIRD annex 4)</p> <p>Variable display addition :</p> <ul style="list-style-type: none"> Ø NMCVT-0110-C Modified Ø NMCVT-6046-C New Ø NMCVT-6135-C New Ø NMCVT-6205-C New 	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 9/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
		<p>On-board parameter allocation</p> <ul style="list-style-type: none"> Ø NMCVT-7800-C Modified Ø NMCVT-7540-C New <p>Miscellaneous</p> <ul style="list-style-type: none"> Ø NMCVT-7620-C Deleted <p>Suppression of subsystems F and J</p> <ul style="list-style-type: none"> Ø NMCVT-7500-C Modified Ø NMCVT-7510-C Modified Ø NMCVT-7520-C Modified <p>TPCF instantiation</p> <ul style="list-style-type: none"> Ø NMCVT-4353-C Modified Element Ø NMCVT-4393-C New Subsystem Ø NMCVT-4446-C New Subsystem definition <p>Static and dynamic user parameters</p> <ul style="list-style-type: none"> Ø NMCVT-0110-C Modified <p>Reason of change identifiers</p> <ul style="list-style-type: none"> Ø NMCVT-6370-C New Ø NMCVT-6374-C New Ø NMCVT-6378-C New Ø NMCVT-6382-C New Ø NMCVT-6384-C New Ø NMCVT-6386-C New <p>Site list</p> <ul style="list-style-type: none"> Ø NMCVT-6730-C New <p>Flight Dynamics data</p> <ul style="list-style-type: none"> Ø NMCVT-7810-C New (according to AI#2472-01) <p>Curves</p> <p>For real curve replacement of previous notes by a requirement to specify differently default and conditional curves :</p> <ul style="list-style-type: none"> Ø NMCVT-5365-C Modified Element real cond. curve Ø NMCVT-5365a-C New Element real def. curve Ø NMCVT-5368-C Modified Subsys. real cond. curve Ø NMCVT-5368a-C New Subsys. real def. curve Ø NMCVT-5375-C Modified Model real cond. curve Ø NMCVT-5375a-C New Model real def. Curve 	
02/00	08/09/03	= 02/00D1	
02/01D1	21/11/03	<p>Minor corrections :</p> <ul style="list-style-type: none"> Ø NMCVT-0110-C Modified Note 2 Ø NMCVT-4081d-C Modified Wrong "cut and past" Ø NMCVT-4081e-C Modified Wrong "cut and past" Ø NMCVT-9050-C Modified Typo error 	F. Chatte

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 10/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
02/01D2	16/12/03	<p>Ø NMCVT-5368a-C New Subsys. real def. curve</p> <p>Ø NMCVT-5375-C Modified Model real cond. curve</p> <p>Ø NMCVT-4446-C Modified example correction</p> <p>TM packet identifier modification ("PKTM" in "TMPK")</p> <p>Ø NMCVT-4232-C Modified Generic</p> <p>Ø NMCVT-4340-C Modified Element</p> <p>Ø NMCVT-4380-C Modified Subsystem</p> <p>Ø NMCVT-4461-C Modified Model (example only)</p> <p>TC packet header in order to be compliant with SCOS</p> <p>Ø NMCVT-4505-C Modified Generic</p> <p>Ø NMCVT-4533-C Modified Element</p> <p>Ø NMCVT-4577-C Modified Subsystem</p> <p>Ø NMCVT-4639-C Modified Subsystem definition</p> <p>Theoretical element and position allocation for EGSE sorption cooler</p> <p>Ø NMCVT-7510-C Modified Theoretical element</p> <p>Ø NMCVT-7520-C Modified Position</p> <p>UDC allocation for sorption cooler</p> <p>Ø NMCVT-7530-C Modified</p> <p>Automatic UDC allocation</p> <p>Ø NMCVT-7530-C Modified Generic</p> <p>Ø NMCVT-7805-C New Instantiation of UDC alloc.</p> <p>Ø NMCVT-9030-C Modified ref. NMCVT-7805-C add.</p> <p>Automatic on-board parameter identifier allocation</p> <p>NMCVT-9080-C Modified ref. NMCVT-7800-C add.</p> <p>Requirement renumbering</p> <p>Ø NMCVT-7599-C New NMCVT-7500-C (APID)</p> <p>New chapter "list of item types"</p> <p>Ø NMCVT-7820-C Modified List of item types</p> <p>New chapter "list of model types"</p> <p>Ø NMCVT-7830-C Modified List of model types</p> <p>Removing of TBW</p> <p>Ø NMCVT-7810-C Modified For FDD</p> <p>Display / input format</p> <p>Ø NMCVT-7840-C New Octal no more allowed</p> <p>Minor corrections according to ALS remarks (mail on 06/11/2003)</p> <p>Ø NMCVT-4305-C Modified</p> <p>Ø NMCVT-4332-C Modified</p> <p>Ø NMCVT-4337-C Modified</p> <p>Ø NMCVT-4358-C Modified</p> <p>Ø NMCVT-4394-C Modified</p>	F. Chatte

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 11/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
		<ul style="list-style-type: none"> Ø NMCVT-4396-C Modified Ø NMCVT-4446-C Modified Ø NMCVT-4505-C Modified Ø NMCVT-4511-C Modified Ø NMCVT-4513-C Modified Ø NMCVT-4515-C Modified Ø NMCVT-4657-C Modified Ø NMCVT-4672-C Modified Ø NMCVT-4675-C Modified Ø NMCVT-4476-C renumbered NMCVT-4676-C Ø NMCVT-4677-C Modified Ø NMCVT-4682-C Modified Ø NMCVT-4687-C Modified Ø NMCVT-4702-C Modified Ø NMCVT-4705-C Modified Ø NMCVT-4711-C Modified Ø NMCVT-4713-C Modified Ø NMCVT-4715-C Modified Ø NMCVT-4717-C Modified Ø NMCVT-4726-C Modified Ø NMCVT-4791-C Modified Ø NMCVT-4795-C Modified Ø NMCVT-4841-C Modified Ø NMCVT-4961-C Modified Ø NMCVT-4963-C Modified Ø NMCVT-4965-C Modified Ø NMCVT-5040-C Modified Ø NMCVT-5104-C Modified Ø NMCVT-5106-C Modified Ø NMCVT-5110-C Modified Ø NMCVT-5150-C Modified Ø NMCVT-5355-C Modified Ø NMCVT-5375a-C Modified Ø NMCVT-6305-C Modified Ø NMCVT-6370-C Modified Ø NMCVT-6374-C Modified Ø NMCVT-6384-C Modified Ø NMCVT-7500-C Renumbered to NMCVT-7400-C (§5.1) Ø NMCVT-7510-C Modified Ø NMCVT-9000-C Modified Ø NMCVT-9020-C Modified Ø NMCVT-9050-C Modified <p>Curve implementation modification. To simplify the design of HPSDB, the curve are implemented as any other items for physical and logical instantiation. This closes action AI#4319-02 "ASP to update accordingly the naming convention 2.1"</p> <ul style="list-style-type: none"> Ø NMCVT-5355-C Deleted Ø NMCVT-5360-C Deleted Ø NMCVT-5365-C Deleted Ø NMCVT-5365a-C Deleted Ø NMCVT-5367-C Deleted 	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 12/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
02/00	19/02/04	<p> Ø NMCVT-5368-C Deleted Ø NMCVT-5368a-C Deleted Ø NMCVT-5370-C Deleted Ø NMCVT-5375-C Deleted Ø NMCVT-5375a-C Deleted Ø NMCVT-5355-C Deleted Ø NMCVT-5301-C New Ø NMCVT-5321-C New Ø NMCVT-5341-C New Ø NMCVT-5361-C New Ø NMCVT-5371-C New Ø NMCVT-5381-C New </p> <p>Limitation to one pseudo element per subsystem and one pseudo subsystem per model.</p> <p> Ø NMCVT-7510-C Modified Ø NMCVT-7520-C Modified </p> <p>Adding % in unit table Chapter 9 modified</p> <p>Suppression of ACMS CDMS and STR software subsystem</p> <p> Ø NMCVT-0110-C Modified Ø NMCVT-7500-C Modified Ø NMCVT-7510-C Modified Ø NMCVT-7520-C Modified Ø NMCVT-7540-C Modified </p> <p>Addition of item "file"</p> <p> Ø NMCVT-6405-C New Ø NMCVT-6410-C New Ø NMCVT-6430-C New Ø NMCVT-6441-C New Ø NMCVT-6450-C New Ø NMCVT-6460-C New </p> <p>Addition of item "parameter structure"</p> <p> Ø NMCVT-5260-C New Ø NMCVT-5263-C New Ø NMCVT-5266-C New Ø NMCVT-5269-C New Ø NMCVT-5270-C Modified Ø NMCVT-5280-C Modified </p> <p>= 02/00D1 + 02/00D2 Change record inhibited for chapter 10 (summary)</p>	F. Chatte

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 13/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
02/02	16/12/04	<p>EGSE#45-02</p> <p>NMCVT-0050-C New (XML reserved characters)</p> <p>Correspondence S2K / HPSDB generic items (refer AI#5558-11)</p> <p>NMCVT-4677-Instruments-C Modified -generic CVS</p> <p>NMCVT-5245-Instruments-C Modified -generic param range set</p> <p>NMCVT-5354-Instruments-C Modified -generic curve</p> <p>Correction on generic curve identifier</p> <p>NMCVT-5301-C Modified</p> <p>CDMS allocation modified</p> <p>NMCVT-7510-C Modified (element number)</p> <p>NMCVT-7520-C Modified (position)</p> <p>UDC spares allocated to SVM</p> <p>NMCVT-7530-C Modified</p> <p>Short description</p> <p>NMCVT-7600-C Modified</p> <p>NMCVT-9005-Instruments-C New – Curve – length limited</p> <p>PIC table (AI#5558-23)</p> <p>NMCVT-4302-C New</p> <p>Octal radix forbidden</p> <p>NMCVT-9090-Instruments-C New</p> <p>Corrections :</p> <p>NMCVT-4730-C Modified</p> <p>NMCVT-4974-C Modified</p> <p>NMCVT-5040-C Modified</p> <p>NMCVT-5250-C Modified</p> <p>NMCVT-5245-C Modified</p> <p>NMCVT-5257-C Modified</p> <p>Summary modified (4730, 4780, 4974, 5020, 5250, 5255, 5245, 5257)</p> <p>AD1 added (to refer to generic items definition)</p>	
03D1	12/09/06	<p>Chapter 2.4 Definition updated</p> <p>All item definition: correction of examples</p> <p>Chapter 4.4 Command sequences</p> <p>NMCVT-4657a-C New Generic formal parameter</p> <p>NMCVT-4660a-C New Element formal parameter</p> <p>NMCVT-4672a-C New Subsystem formal parameter</p> <p>NMCVT-4674a-C New Model formal parameter</p> <p>NMCVT-4675a-C New Subsystem formal parameter def</p> <p>NMCVT-4676a-C New Model formal parameter def</p>	F. Chatte

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 14/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
		<p>Chapter 4.6 – removal of 1553 messages</p> <p>NMCVT-4702-C Deleted</p> <p>NMCVT-4705-C Deleted</p> <p>NMCVT-4711-C Deleted</p> <p>NMCVT-4713-C Deleted</p> <p>NMCVT-4715-C Deleted</p> <p>NMCVT-4717-C Deleted</p> <p>NMCVT-4720-C Deleted</p> <p>NMCVT-4726-C Deleted</p> <p>NMCVT-4730-C Deleted</p> <p>NMCVT-4752-C Deleted</p> <p>NMCVT-4760-C Deleted</p> <p>NMCVT-4774-C Deleted</p> <p>NMCVT-4777-C Deleted</p> <p>NMCVT-4780-C Deleted</p> <p>NMCVT-4791-C Deleted</p> <p>NMCVT-4795-C Deleted</p> <p>NMCVT-4800-C Deleted</p> <p>NMCVT-4820-C Deleted</p> <p>NMCVT-4838-C Deleted</p> <p>NMCVT-4839-C Deleted</p> <p>NMCVT-4840-C Deleted</p> <p>NMCVT-4841-C Deleted</p> <p>NMCVT-4845-C Deleted</p> <p>NMCVT-4850-C Deleted</p> <p>NMCVT-4855-C Deleted</p> <p>NMCVT-4865-C Deleted</p> <p>Chapter 4.7 – removal of OBDH interfaces</p> <p>NMCVT-4961-C Deleted</p> <p>NMCVT-4963-C Deleted</p> <p>NMCVT-4965-C Deleted</p> <p>NMCVT-4974-C Deleted</p> <p>NMCVT-4977-C Deleted</p> <p>NMCVT-4990-C Deleted</p> <p>NMCVT-5020-C Deleted</p> <p>NMCVT-5040-C Deleted</p> <p>NMCVT-5044-C Deleted</p> <p>NMCVT-5048-C Deleted</p> <p>NMCVT-5060-C Deleted</p> <p>NMCVT-5070-C Deleted</p> <p>NMCVT-5080-C Deleted</p> <p>NMCVT-5088-C Deleted</p> <p>Chapter 4.8</p> <p>NMCVT-5120-C Deleted calibration set order</p> <p>NMCVT-5260-C Deleted Generic param. Struct.</p> <p>NMCVT-5263-C Deleted Element param. Struct.</p> <p>NMCVT-5266-C Deleted Subsystem param. Struct.</p> <p>NMCVT-5269-C Deleted Subsys. param. Struct. Def.</p> <p>NMCVT-5260-C Deleted Generic param. Struct.</p>	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 15/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
		<p>NMCVT-5270-C Modified Note</p> <p>NMCVT-5280-C Modified Note</p> <p>Chapter 4.12 – removal of reason of change</p> <p>NMCVT-6370-C Deleted</p> <p>NMCVT-6374-C Deleted</p> <p>NMCVT-6378-C Deleted</p> <p>NMCVT-6382-C Deleted</p> <p>NMCVT-6384-C Deleted</p> <p>NMCVT-6386-C Deleted</p> <p>Chapter 4.13 – removal of file</p> <p>NMCVT-6405-C Deleted</p> <p>NMCVT-6410-C Deleted</p> <p>NMCVT-6430-C Deleted</p> <p>NMCVT-6441-C Deleted</p> <p>NMCVT-6450-C Deleted</p> <p>NMCVT-6460-C Deleted</p> <p>Chapter 5.2 – Subsystem type and number</p> <p>NMCVT-7500-C Modified Completion & X for ESOC</p> <p>Chapter 5.3 Theoretical elements number</p> <p>NMCVT-7510-C Modified Completed and "X" added</p> <p>Chapter 5.4 Position allocation</p> <p>NMCVT-7520-C Modified Completed and "X" added</p> <p>Chapter 5.5 UDC allocation</p> <p>NMCVT-7530-C Modified Clarification</p> <p>Chapter 7 Specific instrument requirements</p> <p>NMCVT-9060-C Modified PCF_WIDTH to be null</p> <p>Chapter 8 – New chapter for specific ESOC requirements</p> <p>NMCVT-9100-C New</p> <p>NMCVT-9110-C New</p> <p>Annex 3 Summary Updated accordingly to requirement updates.</p> <p>Annex 4 – New annex – Default reserved identifier ranges for ESOC needs</p> <p>Annex 5 – New annex – Specific reserve item identifiers ranges for ESOC per subsystem.</p>	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 16/158

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : CHANGE RECORD	REDACTEUR AUTHOR
3D2	20/11/06	Annex 5 correction: As far as some range allocations have not been respected some exception has been added in annex 5 NMCVT-9200-C New	F. Chatte
3	23/04/07	3 = 3D1 + 3D2	F. Chatte

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 17/158

TABLE OF CONTENTS

<u>1. SCOPE</u>	21
1.1 HPSDB DATA MODEL PRESENTATION	22
<u>2. DOCUMENTS</u>	26
2.1 APPLICABLE DOCUMENTS	26
2.2 REFERENCE DOCUMENTS.....	26
2.3 ACRONYMS.....	26
2.4 DEFINITION	28
<u>3. GENERAL IDENTIFIER REQUIREMENTS</u>	35
<u>4. IDENTIFIER REQUIREMENTS</u>	38
4.1 CONFIGURATION.....	38
4.2 TELEMETRY PACKETS.....	42
4.3 TELECOMMAND PACKETS.....	52
4.4 COMMAND SEQUENCES	57
4.5 COMMAND VERIFICATION STAGE	60
4.6 1553 MESSAGES	62
4.7 OBDH INTERFACES	64
4.8 PARAMETERS	65
4.9 CURVES	72
4.10 DISPLAYS.....	75
4.11 CONSTANTS	80
4.12 REASON OF CHANGE.....	81
4.13 FILE	82
4.14 SITE IDENTIFIERS	82
<u>5. DETAIL ALLOCATION REQUIREMENTS</u>	84
5.1 MODELS.....	84
5.2 SUBSYSTEMS.....	84
5.3 THEORETICAL ELEMENTS.....	85
5.4 POSITION.....	87
5.5 DYNAMIC UDC ALLOCATION	88
5.6 ON-BOARD PARAMETER IDENTIFIER ALLOCATION.....	89
<u>6. ATTRIBUTES REQUIREMENTS</u>	91

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 18/158

6.1	APPLICATION ID	91
6.2	SHORT DESCRIPTION	91
6.2.1	SHORT DESCRIPTION	92
6.2.2	LONG DESCRIPTION.....	92
6.3	UNIT	92
6.4	SOFTWARE PARAMETER IDENTIFIER	92
6.5	UDC ALLOCATION	92
6.6	GROUP FOR CONSTANT	93
6.7	ITEM TYPES	93
6.8	MODEL TYPES	94
6.9	DISPLAY FORMAT	95
7.	<u>SPECIFIC INSTRUMENT REQUIREMENTS</u>	97
8.	<u>SPECIFIC ESOC REQUIREMENTS</u>	99
9.	<u>SPECIFIC ESOC REQUIREMENTS</u>	100
10.	<u>ANNEX 1 : COMPLIANCE MATRIX WITH RD1</u>	101
11.	<u>ANNEX 2 - UNITS CUSTOMISATION</u>	113
12.	<u>ANNEX 3 - SUMMARY</u>	118
12.1	CONFIGURATION.....	118
12.2	TELEMETRY PACKETS.....	121
12.3	TELECOMMAND PACKETS	128
12.4	COMMAND SEQUENCES	133
12.5	COMMAND VERIFICATION.....	134
12.6	PARAMETERS (EXCEPT FORMAL PARAMETERS)	136
12.7	CURVES	141
12.8	DISPLAYS.....	143
12.9	CONSTANTS	147
13.	<u>ANNEX 4 – DEFAULT RESERVE ITEM IDENTIFIER RANGES FOR ESOC NEEDS</u>	149
14.	<u>ANNEX 5 –SPECIFIC RESERVE ITEM IDENTIFIER RANGES FOR ESOC NEEDS PER SUBSYSTEM</u>	153

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 19/158

14.1	HERSCHEL	153
14.2	PLANCK	155

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 20/158

List of figures

FIGURE 1-1 - HIGHER LEVEL DATA MODEL	25
FIGURE 1-2 - GENERIC BOX	25

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 21/158

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 Data Base (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 identifiers as readable as possible.

The instruments use MIB bridge files according to RD2. HPSDB identifiers are compliant with RD2 except in what concern the curve identifiers, the command verification stage identifiers and the range identifiers. In order to allow the automatic re-loading of instrument MIB bridge files inside HPSDB some dedicated instruments requirements are added inside the chapters relevant to curves, command verification stages and parameter sets. In all the other cases the instruments shall be compliant with the generic or subsystem definition (instantiated one in case the items can be associated to an element else direct subsystem definition).

Chapter 2 provides the applicable and reference documents. Annex 4 of RD1 document provides 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 RD4 requirement.

Chapter 5 provides the detailed allocation requirements (per element, subsystem, model : subsystem, element, position, on-board identifiers, ...).

Chapter 6 provides some additional requirements to be applied on some attributes (APID, labels, ...).

Chapter 7 provides dedicated requirement to instruments (who use a different version of SCOS).

Chapter 8 (annex) provides a compliance matrix against ORID provisional naming convention.

Chapter 9 (annex) provides the list of recommended units to use (will be checked by HPSDB, but other units can be forced).

Chapter 10 (annex) provides a summary of the naming convention under table format.

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 NMCVT requirements (if needed an ASCII character is added),
 - In case the requirements is specific for instruments : "Instruments",
 - One character set to "C" to identify requirements applying to both Herschel and Planck,
- Requirement title,

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 22/158

- 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.

1.1 HPSDB data model presentation

HPSDB use principle consists in defining (refer to figure 1.1 and figure 1.2) :

"Generic box"

- Reason : To group all items which can be addressed by any other "box object".
- Who : Prime (ASP).
- How : Inputs.
- Functional identifier : Unique.
- Typical data : TM headers, Tc headers, ON/OFF curve,
- Example : ON/OFF curve

"Theoretical elements"

- Reason : To define all theoretical items associated to a theoretical elements
- Who : Equipment engineering.
- How : Inputs.
- Functional identifier : PTI.
- Typical data : Theoretical mass, theoretical curves, theoretical packets, theoretical parameters, ...
- Example : Star tracker associated to theoretical element number "025" with :
 - Theoretical polynomial curve "025566" : $3x + 2.5$,
 - Theoretical acquisition parameter "M012" with limit set (6,10).

"Real elements"

- Reason : To inherit from corresponding "theoretical element" and to overwrite inherited theoretical items. To define specific real items.
- Who : equipment fabrication.
- How : "physical instantiation" of "theoretical element" with "real element" number (this generates instantiation of all physical data) + inputs (to overwrite theoretical data with real data).
- Functional identifier : Serial number.
- Typical data : real mass, real curve, ...
- Example : real star tracker associated to real element number 998 with
 - Real polynomial conditional curve "M01201" : $3x+2.6$.

"Theoretical subsystem"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 23/158

- Reason : To inherit from corresponding list of "theoretical element" and to overwrite inherited theoretical items. To define specific theoretical items.
- Who : subsystem engineering.
- How : by associating to each position of the "theoretical subsystem" a "theoretical element" and a "subsystem identifier" (this generates "logical instantiation" of logical data) and by entering specific "theoretical subsystem" data (for instance to define a TM packet which contains parameters associated to different "theoretical elements" but belonging to "theoretical subsystem").
- Functional identifier : theoretical subsystem name.
- Typical data : subsystem type, theoretical packets, theoretical parameters, theoretical 1553 bus address,
- Example : "A001" subsystem including nominal star tracker in position "023" and part of subsystem "A" with
 - Theoretical acquisition parameter identifier instantiated in "AM012023" and limit set updated to (5,10).
 - Theoretical derived parameter identifier defined at subsystem level : "AD013108".

"Real subsystem"

- Reason : To inherit from corresponding "theoretical subsystem" and to overwrite inherited theoretical items. To inherit from corresponding list of "real element" and to overwrite inherited real items . To define specific real items.
- Who : subsystem fabrication.
- How : by associating to each "theoretical element" part of corresponding "theoretical subsystem" a "real element".
- Identifier : "real subsystem" identifier (instantiation of the "theoretical subsystem" identifier with the "real subsystem" number).
- Typical data : triplet ("theoretical subsystem" identifier, position identifier, "real element" identifier), satellite identifier,
- Example : The "real subsystem" "A001002" is derived from "theoretical subsystem" "A001" and nominal (position "023") star tracker of subsystem "A001" is the STR number 998 with serial number : xxxx, the real conditional calibration curve of parameter "AM012023" will be "AM01202302".

"Theoretical model"

- Reason : To inherit from corresponding list of "theoretical subsystem" and to overwrite inherited theoretical items. To define specific items.
- Who : system engineering,
- How : by allocating a set of theoretical subsystem to the "theoretical model" and by entering specific theoretical model data (for instance to define a TM packet which contains parameters associated to different "theoretical subsystems").
- Functional identifier : theoretical model name.
- Typical data : theoretical packets, theoretical parameters, theoretical 1553 bus address,

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 24/158

- Example : "Herschel PFM" including subsystem " A001" with
 - Real parameter identifier instantiated in "AM012023" and limit set updated to (5,11).

"Real model"

- Reason : To inherit from corresponding "theoretical model" and to overwrite inherited theoretical items. To inherit from corresponding list of "real subsystem" and to overwrite inherited real items. To define specific real items.
- Who : AIT.
- How : by associating to each theoretical subsystem part of corresponding "theoretical model" a "real subsystem".
- Identifier : real model identifier (instantiation of the "theoretical model identifier with the real model number).
- Typical data : triplet (theoretical model identifier, position identifier, real subsystem identifier), satellite identifier,
- Example : The "real subsystem" A001002 is associated to "theoretical subsystem "A001" of real modekl "Herschel PFM 01". Nominal (position "023") star tracker of "Herschel PFM 01" is the STR number 998 with serial number : xxxx, the default real calibration curve of parameter "AM012023" will be "AM012023"

Note :

At "real element" level it is possible to enter attributes without correspondence at "theoretical element" level. At "real subsystem" level it is possible to enter attributes without correspondence at "theoretical subsystem" level. At "real model" level it is possible to enter attributes without correspondence at "theoretical model" level. This facility is known as "direct definition".

In order to emulate the different instantiations made in normal definitions, pseudo "theoretical elements", "pseudo position" and "pseudo subsystem" are defined at element level, subsystem level or system level depending if the item is limited to an element or a subsystem or not. This last facility allows for instance to associate a theoretical calibration curve at "theoretical model" level to a set of derived parameters which are depending of parameters belonging to different elements, this curve will then be instantiated at "real model" level in several instances.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 25/158

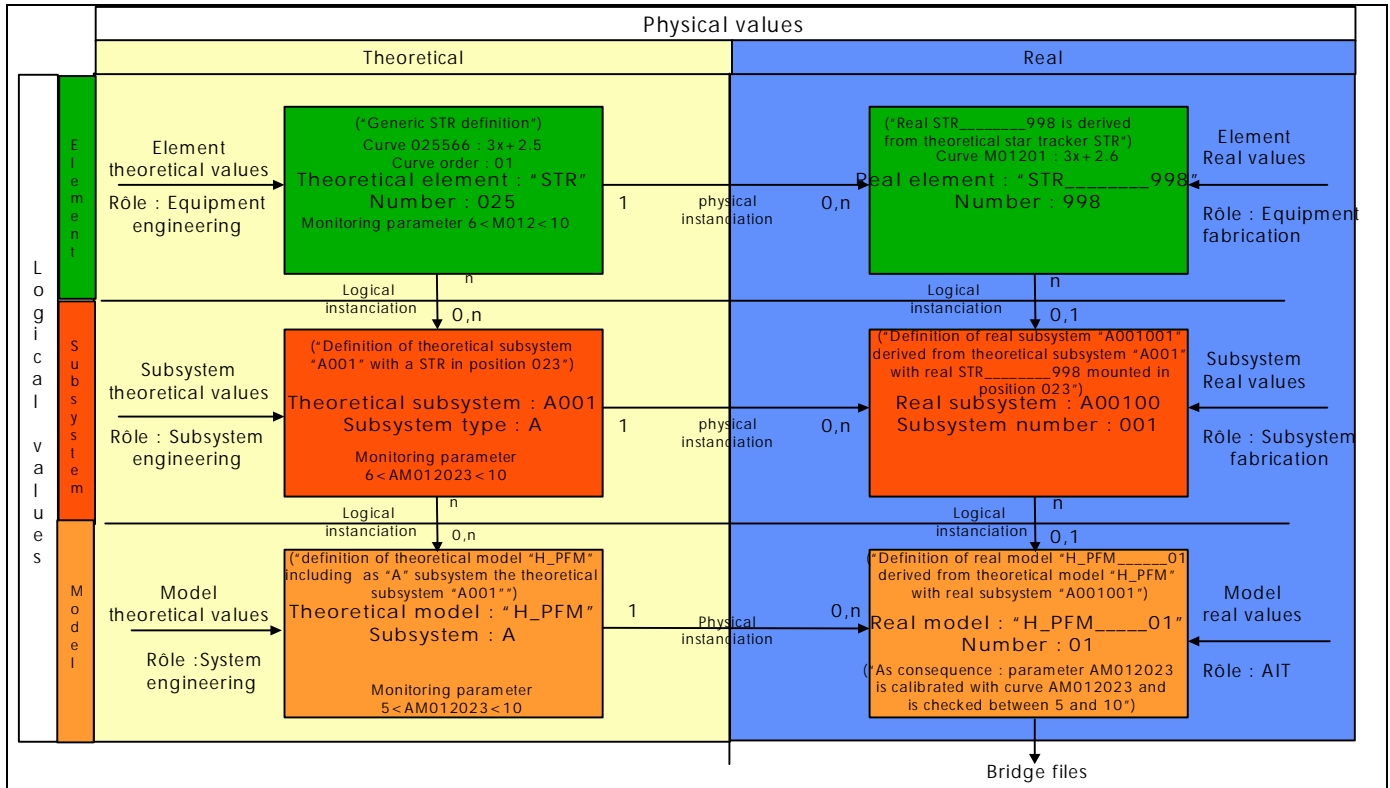


Figure 1-1 - Higher level data model

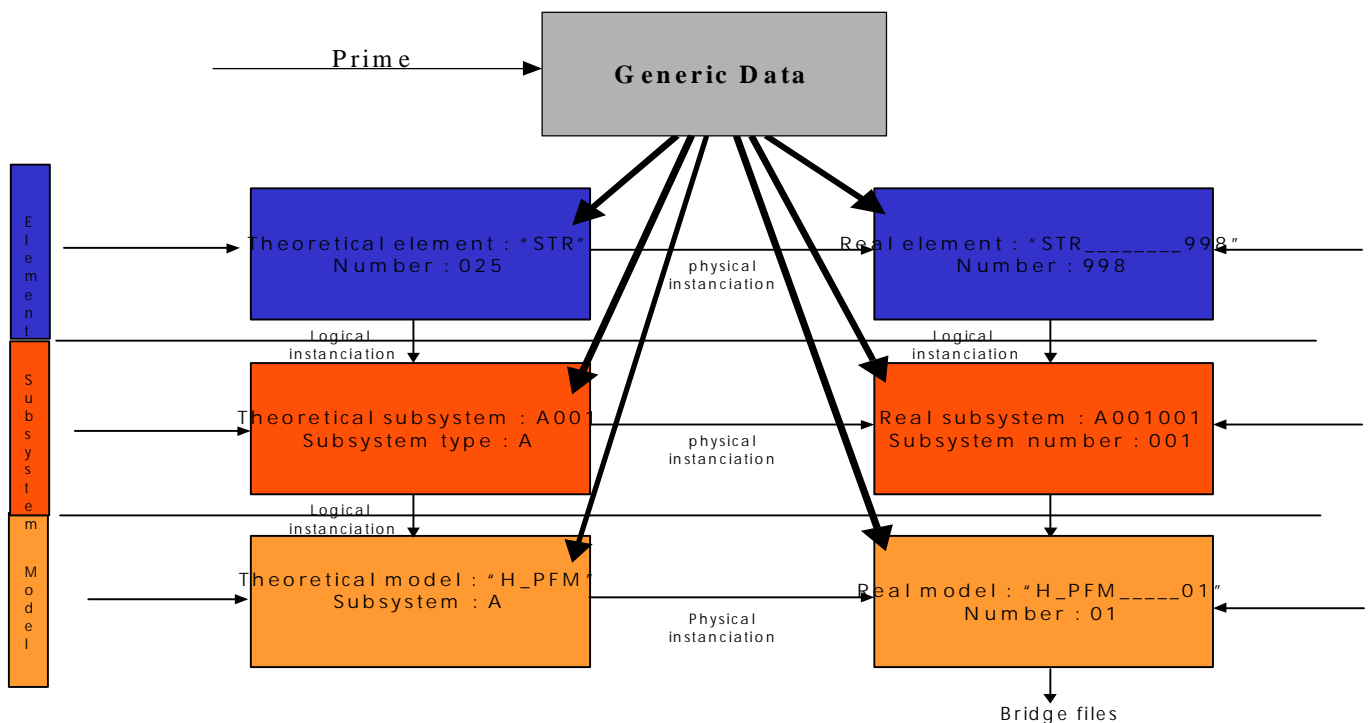


Figure 1-2 - Generic box

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 26/158

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-ASP-TN-0543	Generic data collection
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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)
RD4	H-P-1-ASPI-SP-0082	Herschel / Planck System database specification
RD5	H-P-4-TE-ID-8020	Herschel / Planck Central Checkout System External Interface Control Document

2.3 Acronyms

ACC	Attitude Control Computer
ACMS	Attitude Control and Measurement System
AD	Applicable Document
AIT	Assembly Integration Test
ASCI	American Standard ...
ASP	Alcatel Space
AVM	Avionics Validation Model
BC	Bus Controller (1553)
CCS	Central Checkout System
CDMS	Command and Data Management System
CDMU	Command and Data Management Unit
CLCW	Command Link control Word
CQM	Cryogenic Qualification Model
CT	Central Terminal (OBDH)
EGSE	Electrical Ground Support Equipment
EQM	Electrical Qualification Model
FDD	Flight Dynamics Data

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 27/158

FDDDB	Flight Dynamics Data Base
FE	Front End
FM	Flight Model
GSE	Ground Support Equipment
HPADB	Herschel/Planck System DataBase
HTTP	HyperText Transfer Protocol
HTTPS	HyperText Transfert Protocol Secure
H/W	HardWare
H-xxx	Herschel-xxx
IE	Internet Explorer
I/O	Input/Output
MAP	Multiplexed Access Point
MCS	Mission Control System
MMI	Man Machine Interface
N/A	Not Applicable
OBCP	On Board Control Procedure
OBSW	On Board SoftWare
PAC	Packet Assembly Controller
PFM	Proto Flight Model
PLM	PayLoad Module
PSICD	Packet Structure Interface Control Document
PTI	Product Tree Identifier
P-xxx	Planck-xxx
RD	Reference Document
RT	Remote Terminal
SCOE	Specific CheckOut Equipment
SDB	System DataBase
SDE	Software Development Environment
SID	Structure IDentifier
SQL	Structured Query Language
SSL	Secure Socket Layer
SVF	Software Validation Facility
SVM	SerVice Module
S/W	SoftWare

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 28/158

TBC	To Be confirmed
TBD	To Be Defined
TBW	To Be Written
TC	TeleCommand
TM	TeleMetry
TWTA	Travelling Wave Tube Amplifier

2.4 Definition

"Acquisition parameter"

"Acquisition parameter" is a "Parameter" generated either by hardware or by software which is part of the "Acquisition chain", so it is included in TM packet. Refer also to "Hardware acquisition parameter" and to "Software acquisition parameter".

"Archive area"

An "Archive area" is an "Area" where are archived the validated items which have been superseded. The items are not unique, they are differentiated by their validation date and per site.

"Area"

An "Area" is a logical subset of the database. Three areas are defined per site : "Working area", "Reference area" and "Archive area".

"Attribute" (or "Data")

"Attribute" is a characteristic associated to a "Granule" (for instance : attribute of a curve granule can be : the short description, one point, ...)

"Box"

A "Box" is one of the following : "Theoretical element", "Real element", "Theoretical subsystem", "Real subsystem", "Theoretical model", "Real model" or "Generic".

"Box object" (or "Object")

A "Box object" is one "Element" or "Subsystem" or "Model" of one "Box". The "Generic" box contains only one "Box object".

"Category"

A "Category" is a flag associated to each "Item" (and to limit granule for parameter) which allows to allocate each "Item" (or limit granule for parameter) to one or several client (On-board software, AIT, operations, FDD, ...). By default granules are allocated to all clients except FDD.

"Central site"

A "Central site" is a unique "Site" which is the one to be delivered to the customer for spacecraft's operation and which is used to load, via the "export / import" activity, the different mirror sites during spacecraft's development and tests. The "Central site" contains all "Objects" of Herschel / Planck project.

"Command parameter"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 29/158

A "Command parameter" is a "Parameter" processed either by hardware or by software which is part of the "command chain", so it is included in TC packet. Refer also to "Hardware command parameter" and to "Software command parameter".

"Command header parameter"

A "Command header parameter" is a "Parameter" reserved for command header definition.

"Data"

Refer to "attribute".

"Derived parameter" (or "Synthetic parameter")

A "Derived parameter" is a "Parameter" which is defined via a file using OL or C++ syntax which can include any other type of "Monitoring parameter".

"Direct definition"

"Direct definition" is the capability offered by HPSDB to enter "Items" directly at "Real part" level. Even if HPSDB is build in a way that the "Real data" are generated from "Theoretical data" by "Physical instantiation", it is still possible to enter directly "Real data" via "Direct definition" tool. This facility is kept to be sure to be able to enter any "Real" data which cannot be linked with a "Theoretical" one, however it is recommended to use this facility with moderation. Refer also to "Normal definition".

"Dynamic parameter"

A "Dynamic parameter" is a "User parameter" which value can be dynamically updated. Refer also to "static parameter".

"Element"

An "Element" is the smallest equipment which can be integrated on a spacecraft model, it can be a spacecraft box, a thermistance, a software, ... (For instance : TWTA, CDMU software), and it can be "Theoretical" or "Real".

"Element definition"

An "Element definition" is the activity consisting to enter data at "Theoretical element" level or, in case of "Direct definition" at "Real element level".

"Environment"

An "Environment" is a set of consistent data relevant for a project.

"Export / Import"

"Export / Import" is the activity to copy a consistent "real" "Object" from "Reference area" of the "Central site" into the "Reference area" of a "Mirror site".

"External identifier"

"External identifier" is an identifier which is generated by an external (to HPSDB) tool. For some "Internal identifier" the tool provides an "External identifier" which is imported inside HPSDB. The correspondence between the "Internal identifier" and the "External identifier" is a "one to one correspondence". Typical example : parameter on-board software identifier. (opposite is "Internal identifier").

"Generic item"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 30/158

"Generic item" is an "Item" which is not attached to an element, subsystem or model but which can be referenced by any element, subsystem or model. Those items are not instantiated, they are defined in the "Generic box".

"Granule"

A "Granule" is the smallest set of data manipulated (to be seen as a table record) internally by HPSDB. A granule can contain one or several "Attribute" and is a subset of a "User view". As soon as one attribute of a "Granule" is created / modified / deleted / instantiated all its attributes are created / modified (considered as) / deleted / instantiated. For instance if a granule of a "Real element" refers to a granule of the corresponding "Theoretical element" and if an "Attribute" of this "Granule" is modified at "Real element" level, then the full "Granule" is considered to have been modified (a copy will be done at "Real element").

"Group"

A "Group" is a set of "Items" each one being identified by its own identifier.

"Hardware acquisition parameter"

"Hardware acquisition parameter" is an "Acquisition parameter" generated by hardware which is part of the "Acquisition chain", so it is included in TM packet. Refer also to "Acquisition parameter" and to "Software acquisition parameter".

"Hardware command parameter"

An "Hardware acquisition parameter" is a "Parameter" processed by hardware which is part of the "command chain", so it is included in TC packet. Refer also to "Command parameter" and to "Software command parameter".

"Identifier"

"Identifier" allows to identifies uniquely each "Box object" and inside a "Box object" to identify uniquely the items". Refer to AD9 for naming convention of "identifiers".

"Instantiation"

"Instantiation" refers to the HPSDB capability to defined "Logical" or "Real" instances of an "Object" or an "Item" inside an "Object". Refer also to "physical instantiation" and "Logical instantiation".

"Item" (Up to issue 01/00 was called "record")

An "Item" is a set of "Granules" and all their associated "Attributes" (for ORACLE expert it can be seen as a view record) (for instance : parameter, TM packet, ...). They are also called "user views".

"Internal identifier"

"Internal identifier" is an identifier managed by HPSDB (opposite is "External identifier").

"Log / Log download"

"Log / Log download" is the activity to send back to the "working area" of the "central site" "Real objects" which have been modified and validated at any "Mirror site" level.

"Logical instantiation"

"Logical instantiation" is an "Instantiation" when an "Object" or an "Item" (source) is instantiated into a higher level "Object" respectively "Item" (target) (for instance element STR is logically instantiated inside ACMS subsystem) :

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 31/158

By default, the "Attributes" of the target are the same as the ones of the source (logical inheritance), however they can be overwritten else automatically (for instance the "item identifiers") or manually (for instance the short description). When an "Attribute" is overwritten manually the full "Granule" to which the modified "Attribute" belongs to is no more inherited from the source.

"Mirror site"

A "Mirror site" is a "site" dedicated to a specific user, it is loaded from the "Reference area" of the "central site", the "user" is free to performed modification on his "Mirror site" but each validation is automatically reported to the "working area" of the "central site" via the "log / log download" activity. The interface between the "Central site" and a "Mirror site" is a unique "Real object". Note : there is no check that a real object shall not be exported to more than one "Mirror site".

"MISCconfig parameter"

A "MISCconfig parameter" is a "Parameter" used to access dynamically to MISCconfig parameters.

"Model"

A "Model" is a spacecraft model or module. It can be Herschel SVM, Planck SVM, Herschel PLM, Planck PLM, Herschel PFM, Planck PFM, AVM, It can be "theoretical" or "real". It is built from a collection of "Subsystems" and dedicated "Items".

"Model definition"

A "Model definition" is the activity consisting to enter data at "Theoretical model" level or, in case of "Direct definition", at "Real model" level. Those model data are not inherited from "Subsystem" data, this concern the "Items" which cannot be associated to a "Subsystem", for instance derived parameter calculated from parameters issued from different subsystems.

"Monitoring parameter"

A "Monitoring parameter" refers indifferently to the following type of parameters : "Acquisition parameter", "software acquisition parameter", "Derived parameter", "Dynamic parameter", "System parameter", "Static parameter" and "MISCconfig parameters". In fact it groups all parameter types which are defined in SCOS table PCF.

"Normal definition"

"Normal definition" refers to the data inputs at theoretical level. Refer also to "Direct definition".

"Object"

Refer to "Box object".

"Owner"

An "Owner" of an "Object" is the user or user group who has created the "Object" and who is allowed to modify / delete it.

"Parameter"

A "Parameter" can refer to "Monitoring parameter" or "Command parameter" or "Command header parameter".

"Physical instantiation"

"Physical instantiation" is an "Instantiation" when a "Theoretical object" or "Theoretical item" (source) is instantiated into "Real object" respectively "Real item" (target) :

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 32/158

By default, the "Attributes" of the target are the same as the ones of the source (inheritance), however they can be overwritten else automatically (for instance the "object identifiers") or manually (for instance the short description). When an "Attribute" is overwritten manually the full "Granule" to which the modified "Attribute" belongs to is no more inherited from the source.

"Real"

The word "Real" is used to represent an instance of corresponding theoretical element, subsystem or model. Before Issue 2.2, the word "real" was also used for attributes of "theoretical model" (Parameter, message 1553, ...) or "real element" (curves, ...) which have been "instantiated". (opposite is "theoretical").

"Real element"

A "Real element" is a "physical instantiation" of a "Theoretical element" (for instance : TWTA with serial number = 1234, CDMU software with version 2.0). By default it inherits of all items, granules and attributes of the "Theoretical element". However it can contain some "Granules" ("Real") which can supersede corresponding "Granules" of the corresponding "Theoretical element" (for instance : calibration curve). In addition it can also contain "Items" without any correspondence at theoretical element level ("Direct definition").

"Real model"

A "Real model" is a "Physical instantiation" of a "Theoretical model" by associating part or all of the "Theoretical subsystem" included in the corresponding (corresponding to "Real model") "Theoretical model" with one of the "Real subsystem" (of same type of course) (for instance : Herschel PFM is built from ACMS with number 123 and with CDMS with number 124. By default it inherits of all items, granules and attributes of the theoretical model. However it can contain some "Granules" ("Real") which can supersede corresponding "Granules" of the corresponding "Theoretical model" (for instance : calibration curve). In addition it can also contain "Items" without any correspondence at "Theoretical model" level ("Direct definition").

"Real object Loading"

"Real object loading" refers to the action to load data inside HPSDB using as input a full set of MIB ICD files compatible with SCOS-2000 or CCS relevant for a unique "Real object" (element or subsystem, model is not supported) and using configuration files to make the link between HPSDB data model and SCOS data model. Before performing the loading, HPSDB shall not contain the "Real" "Box object" to be loaded, however a corresponding "Theoretical" "Box object" shall exist, the same rules apply for the lower level "Box objects" : for instance if real ACMS subsystem A001001 is to be loaded, there should not be an already existing A001001 real ACMS subsystem existing inside HPSDB but theoretical A001 ACMS subsystem shall exist. If the real ACMS subsystem A001001 is composed of a real GYRO001 and a real STR001, there should be no GYRO001 and STR001 already existing inside HPSDB but theoretical STR and GYR elements shall exist.

"Real subsystem"

A "Real subsystem" is a "Physical instantiation" of a "Theoretical subsystem" by associating part or all of the "Theoretical element" included in the corresponding (corresponding to "Real subsystem") subsystem of the "Theoretical subsystem" with one of the "Real element" (of same type of course) (for instance : Herschel PFM is built from TWTA with serial number 1234 and with CDU software version 2.0). By default it inherits of all items, granules and attributes of the theoretical subsystem. However it can contain some "Granules" ("Real") which can supersede corresponding "Granules" of the corresponding "Theoretical subsystem" (for instance : calibration curve). In addition it can also contain "Items" without any correspondence at "Theoretical subsystem" level ("Direct definition").

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 33/158

"Reference area"

A "Reference area" is an "Area" which contains the current valid data. Each item inside the "Reference area" is unique.

"Role"

Depending of its HPSDB login, a "role" will be allocated to each user, this "role" defines the rights access of the user to a one or several "Box object" defined in a "Group".

"Software acquisition parameter"

Parameter generated by software which is part of the "acquisition chain", so it is included in TM packet. Refer also to "Acquisition parameter" and to "Hardware acquisition parameter".

"Software command parameter"

Parameter processed by software which is part of the "command chain", so it is included in TC packet. Refer also to "Command parameter" and to "hardware command parameter".

"Static parameter"

A "Static parameter" is a "User parameter" which value is fixed. Refer also to "Dynamic parameter".

"Subsystem"

A "Subsystem" is a spacecraft subsystem. It can be : an instrument, ACMS, , It can be "theoretical" or "real". It is built from a collection of "Elements" and dedicated "Items".

"Subsystem definition"

A "Subsystem definition" is the activity consisting to enter data at "Theoretical subsystem" level or, in case of "Direct definition", at "Real subsystem" level. Those subsystem data are not associated to "Element" data, this concerns the "Items" which cannot be associated to an "Element", for instance derived parameter calculated from parameters issued from different elements.

"Synthetic parameter"

Refer to "Derived parameter".

"System parameter"

A "System parameter" is a "Parameter" which is set automatically by the test environment (CCS, ...) and can be monitored or used as any other "Parameter".

"Theoretical"

The word "Theoretical" is used to refer to "Objects" or "Items" (Parameter, message 1553, curves, ...) which are not physically instantiated.

"Theoretical element" (From issue 01/01 up to issue 02/00 was called "Type of system element")

A "Theoretical element" is a generic definition (list of generic or default attributes) of an "Element" (for instance : TWTA, CDMU software). A "theoretical element contains a list of "Items".

"Theoretical model" (From issue 01/01 up to issue 02/00 was called system element model")

A "Theoretical model" is a generic definition of a "Model" (for instance : Herschel PFM, AVM). A "Theoretical model" contains a list of "Theoretical subsystems" and specific "Items".

"Theoretical subsystem"

A "Theoretical subsystem" is a generic definition of a "Subsystem" (for instance : Herschel ACMS, AVM PCS). A "Theoretical subsystem" contains a list of "Theoretical elements" and specific "Items".

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 34/158

"User"

The word "User" is used to group all the users of HPDB : engineering team, tests team, operation teams, ...

"User parameter"

A "User parameter" is a "Parameter" which is set by the user (CCS user, MCS user, ...) (for instance : test environment - this parameter can be used to calculate "Derived parameter" which can be used for limits selection).

"User view"

"User views" are identical to "Items".

"Validation date"

"Validation date" is the date and time at which the data base manager has validated an "Object" from the "Working area" to the "Reference area".

"Working area"

A "Working area" is an "Area" where the user enters all his "Objects" and associated "Items", in this area the user items are not traced except for downloaded items, the items are unique.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 35/158

3. GENERAL IDENTIFIER REQUIREMENTS

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

NMCVT-0500-C - Forbidden characters - I

The following characters are forbidden to be used:

- > Greater than
- < Lower than
- ' Quote
- " Double quote
- & Commercial and.

Note : those limitations are due to XML which interprets those characters.

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).

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 in one of the notes associated with the requirement.

NMCVT-0110-C - Identifier subtype - I

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

- IDCHnn[F/M] with
 - § "ID" for identifier type,
 - § "CH" for any authorised character,
 - § "nn" for the identifier length (01-99),
 - § "F" for fixed length
 - § "M" for maximum length

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 36/158

- IDE201F (function specifier for parameter - refer to RD1-A4.3) :
 - § Length = 1,
 - § Enumerated data :
 - . "B" for command header parameter,
 - . "D" for synthetic (derived) parameters,
 - . "E" for software acquisition parameter (former software S/S),
 - . "F" Spare (at function level),
 - . "H" for software command parameter (former software S/S),
 - . "J" Spare (at function level),
 - . "M" for acquisition parameters,
 - . "N" for dynamic parameter,
 - . "P" for command parameter,
 - . "U" for static parameter,
 - . "Y" [for MISCconfig parameter](#),
 - . "Z" for system parameter.
- 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 :
 - . A for alphanumeric display (refer NMCVT-6050-C),
 - . C for telecommand packet (refer to NMCVT-4540-C),
 - . G for graphical display (refer to NMCVT-6105-C),
 - . I for...bidden,
 - . K for constant (refer to NMCVT-6310-C)
 - . L for scrolling display (refer to NMCVT-6128-C),
 - . O for...bidden,
 - . Q for...bidden,
 - . R for range set (refer to NMCVT-5250-C),
 - . S for sequence (refer to NMCVT-4657-C),
 - . T for parameter set (refer to NMCVT-5210-C),

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 37/158

- . V for parameter value set (refer to NMCVT-5220-C),
- . W for variable SCOS packet display (refer to NMCVT-6135-C)
- . X for TC packet header.

NMCVT-0300-C - Subsystem pseudo definition - I

In case of "direct definition" at real subsystem level or in case of definition at theoretical subsystem level, then the reference to the "theoretical element" number and to the "position" number shall respectively be forced to the "subsystem pseudo theoretical element" number associated to the subsystem and to the "subsystem pseudo position" number associated to the subsystem (refer to NMCVT-7510-C for the "subsystem pseudo theoretical element" number allocation per subsystem and to NMCVT-7520-C for the "subsystem pseudo position" number allocated per subsystem).

Note :

- 1 The "subsystem pseudo theoretical element" is referenced as "<subsystem identifier>_PSEUDO " in NMCVT-7510-C.
- 2 The "subsystem pseudo position" is referenced as "<subsystem identifier>_PSEUDO " in NMCVT-7520-C.

NMCVT-0400-C - System pseudo definition - I

In case of "direct definition" at real model level or in case of definition at theoretical model level, then the reference to the "subsystem", the "theoretical element" number and to the "position" number shall respectively be forced to the "pseudo subsystem", the "system pseudo theoretical element" number and to the "system pseudo position" number (refer to NMCVT-7510-C for the "pseudo theoretical element number allocation) and to NMCVT-7520-C for the "pseudo position" number allocated).

Note :

- 1 The "pseudo subsystem" is referenced as "PSEUDO " in NMCVT-7500-C.
- 2 The "system pseudo theoretical element" is referenced as "PSEUDO" in NMCVT-7510-C.
- 3 The "system pseudo position" is referenced as "PSEUDO" in NMCVT-7520-C.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 38/158

4. IDENTIFIER REQUIREMENTS

The following requirements are directly linked to RD4 requirements. In order to insure the traceability with [RD4] 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 RD4). In case several identifiers are defined inside the same HPSDB requirements, then NMCVT requirement will be such that a letter will be added to the four decimal digits (for instance NMCVT-1234a-C and NMCVT-1234b-C refer both to HPSDB-1234-C requirement in RD4).

In case the requirement is specific for instrument, then the word "_instrument" is inserted in front of the "_C" characters.

To facilitate the understanding of the examples, separator is used to separate the different fields, the separator is the character "/" and so it is not part of the identifier.

4.1 Configuration

NMCVT-3980-C	-	Generic box	-	
"Generic box" identifier shall :				
- Be "GENERIC BOX" .				

NMCVT-3985-C	-	Generic box number	-	
"Generic box" number shall :				
- Be "000" .				

NMCVT-4030-C	-	Theoretical element	-	
"Theoretical element" identifier shall :				
- Be of IDCH11M subtype,				
- Be unique.				

For instance : "01234567890", "CDMU", "CDMU_SW_h", "TWTA", "CCS"

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

NMCVT-4040-C	-	Theoretical element number	-	
"Theoretical element" number identifier shall :				
Be of IDIN03F subtype (refer to NMCVT-7510-C).				

For instance : "012", "001", "987"

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

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 39/158

NMCVT-4050-C - Real element - I

"Real element" identifier shall :

- Be of IDCH14F subtype with the following limitations :

§ From first up to eleventh character is "theoretical element" identifier (IDCH11F - refer to NMCVT-4030-C),

§ From twelfth up to fourteenth character is "real element" number (IDIN03F - refer to NMCVT-4060-C),

- Be unique.

For instance : "01234567890/012", "CDMU_____/999", "CDMU_SW_H_/001", "TWTA_____/002", "CCS_____/003"

NMCVT-4060-C - Real element number - I

"Real element" number shall :

- Be of IDIN03F,

- Be unique for a "theoretical element".

For instance : "012", "999", "250"

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

NMCVT-4075-C - Deleted

NMCVT-4080-C - Theoretical Subsystem - I

"Theoretical subsystem" identifier shall :

- Be of IDCH04F subtype with the following limitations :

§ First character is "type of subsystem" (IDCH01F - refer to NMCVT-4081a-C),

§ From second up to fourth character is IDIN03F,

- Be unique.

For instance : "A001", "C002", "Y001", "H999"

NMCVT-4081a-C - Subsystem type - I

"Subsystem" type shall :

- Be of IDCH01F subtype (refer to NMCVT-7500-C).

For instance : "A", "C", "Y", "H"

Note : used for instantiation of ASCII identifiers at subsystem level generation (parameter identifier, telecommand packet identifier, ...) and to insure of subsystem type uniqueness at model level.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 40/158

NMCVT-4081b-C - Subsystem type number - |

"Subsystem type number" shall :

- Be of IDIN02F subtype (refer to NMCVT-7500-C),
- Be unique for a subsystem type.

For instance : "01", "03", "26", "08"

Note : used for instantiation of numeric identifiers at subsystem level generation (SCOS TM packet archiving, Command verifications stage ...).

NMCVT-4081c-C - Position - |

"Position" identifier shall :

- Be of IDIN03F subtype (refer to NMCVT-7520-C),
- Be unique for a " subsystem".

For instance : "001", "987", "012"

Notes :

- 1 used for instantiation at theoretical subsystem generation (parameter identifier, Telecommand packet identifier, ...),
- 2 Due to SCOS limitation this position is also unique at model level (refer allocation in NMCVT-7520-C).

NMCVT-4081d-C - Position Code - |

"Position code" identifier shall :

- Be of IDCH01M subtype.

For instance : "N", "R", "1", "2", "3", "4", " ", " ", " "

Notes :

- 1 Used to instantiate the short description (refer NMCVT-7610-C)

NMCVT-4081e-C - Subsystem number - |

"Subsystem number" identifier shall :

- Be of IDCH03F subtype
- Be unique for a subsystem type.

For instance : "000", "999", "025"

Notes :

- 1 <theoretical subsystem identifier> = <subsystem type> <subsystem number>

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 41/158

NMCVT-4085-C - Real subsystem - |

"Real subsystem" identifier shall :

- Be of IDCH07F subtype with the following limitations :

§ From first up to fourth character is "theoretical subsystem" identifier (IDCH04F - refer to NMCVT-4080-C),

§ From fifth up to seventh character is "real subsystem" number (IDIN03F - refer to NMCVT-4086-C),

- Be unique.

For instance : "A001/001", "C002/999", "Y001/025", "H999/026"

NMCVT-4086-C - Real subsystem number - |

"Real subsystem" number shall :

- Be of IDIN03F

- Be unique for a "theoretical subsystem".

For instance : "001", "999", "025", "026"

Note : used for instantiation at real subsystem generation (real subsystem identifier, ...)

NMCVT-4100-C - Theoretical model - |

"Theoretical model" identifier shall :

- Be of IDCH10M subtype

- Be unique.

For instance : "H_01234567", "P_PLM", "H_PFM", "X_AVM1"

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

NMCVT-4111-C - Deleted

NMCVT-4113-C - Deleted

NMCVT-4114-C - Deleted

NMCVT-4117-C - Deleted

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 42/158

NMCVT-4120-C - Real model - I

"Real model" identifier shall :

- Be of IDCH12F subtype with the following limitations :

§ From first up to tenth character is "theoretical 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_01234567/01", "P_PLM____/02", "H_PFM____/99", "X_AVM1____/25"

NMCVT-4130-C - Real model number - I

"Real model" number shall :

- Be of IDIN02F subtype

- Be unique for a "theoretical model".

For instance : "01", "99", "25"

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

4.2 Telemetry packets

NMCVT-4302-C - SCOS PIC table definition - I

The SCOS PIC table definition for all Herschel / Planck users shall be the generic one defined in AD1.

Note : any deviation to this requirement shall be agreed with ASP.

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

"Generic TM packet standard " identifier shall :

- be of IDCH14F subtype with the following limitations :

§ From first character up to third character is "generic element" number (IDIN03F- refer to NMCVT-3985-C),

§ From fourth up to seventh character is "TMSD" (to refer to TM packet standard),

§ From eighth up to eleventh character is IDIN04F,

§ From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique.

For instance : "000/TMSD/0123/000", "000/TMSD/9999/000", "000/TMSD/0250/000"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 43/158

NMCVT-4311-C - Generic TM packet group - I

" Generic TM packet group" identifier shall :

- be of IDCH14F subtype with the following limitations :
 - § From first character up to third character is "generic element" number (IDIN03F- refer to NMCVT-3985-C),
 - § From fourth up to seventh character is "TMGR" (to refer to TM packet group),
 - § From eighth up to eleventh character is IDIN04F,
 - § From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique.

For instance : "000/TMGR/0123/000", "000/TMGR/9999/000", "000/TMGR/0250/000"

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

" Generic TM packet PSICD " identifier shall :

- Be of IDCH16F subtype with the following limitations :
 - § From first character up to third character is "generic element" number (IDIN03F- refer to NMCVT-3985-C),
 - § From fourth up to seventh character is "TMPS" (to refer to TM packet PSICD),
 - § From eighth up to tenth character is IDIN03F (Type),
 - § From eleventh up to thirteenth character is IDIN03F (Subtype),
 - § From fourteenth up to sixteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique.

For instance : "000/TMPS/001/001/000", "000/TMPS/021/004/000", "000/TMPS/012/009/000"

NMCVT-4332-C - Generic TM packet - I

" Generic TM packet " identifier shall :

- be of IDCH14F subtype with the following limitations :
 - § From first character up to third character is "generic element" number (IDIN03F- refer to NMCVT-3985-C),
 - § From fourth up to seventh character is "TMPK" (to refer to TM packet),
 - § Eighth character is "A",
 - § From ninth up to eleventh character is IDIN03F,
 - § From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 44/158

For instance : "000/TMPK/A/123/000", "000/TMPK/A/999/000", "000/TMPK/A/250/000"

NMCVT-4334-C - Generic TM packet SCOS archiving - I

"Generic TM packet SCOS archiving" identifier shall :

– Be of IDIN09F subtype with the following limitations :

§ From first character up to second character is "generic subsystem" number (IDIN02F- refer to NMCVT-4081b-C),

§ From third up to sixth character is IDIN04F,

§ From seventh up to ninth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique.

For instance : "07/0001/000", "07/9999/000"

Note : CCS reserved SPID are in the range [0, 999]

NMCVT-4336-C - Generic TPCF - I

"Generic TPCF" identifier shall :

– Be of IDCH12F subtype with the following limitations :

§ First character is "generic subsystem" type (IDCH01F- refer to NMCVT-4081a-C),

§ From second up to ninth character is IDCH08F,

§ From tenth up to twelfth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique.

For instance : "G/01234567/000", "G/ABCDEFGH/000"

NMCVT-4337-C - Generic TM structure - I

"Generic TM structure" identifier shall :

– Be of IDCH14F subtype with the following limitations :

§ From first character up to third character is "generic element" number (IDIN03F- refer to NMCVT-3985-C),

§ From fourth up to seventh character is "TMST",

§ From eighth up to eleventh character is IDIN04F,

§ From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique.

For instance : "000/TMST/0000/000", "000/TMST/9999/000", "

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 45/158

NMCVT-4340-C - Element TM packet - I

"Element TM packet" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - § From first up to third character is "element" number (IDIN03F - refer to NMCVT-4040-C),
 - § From fourth up to seventh character is "TMPK",
 - § Eighth character is "A",
 - § From ninth up to eleventh character is " IDIN03F,
- Be unique for an "element".

For instance : "001/TMPK/A/001", "987/TMPK/A/987", "025/TMPK/A/026"

NMCVT-4352-C - Element TM packet SCOS archiving - I

"element TM packet SCOS archiving" identifier shall :

- Be of IDIN04F subtype,
- Be unique for an "element".

For instance : "0123", "9999", "0250"

NMCVT-4353-C - Element TPCF - I

"Element TPCF" identifier shall :

- Be of IDCH08F subtype,
- Be unique for an "element".

For instance : "01234567", "ABCDEFGH"

NMCVT-4356-C - Element TM packet standard - I

"Element TM packet standard " identifier shall :

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

For instance : "012/TMSD/0123", "010/TMSD/9999", "025/TMSD/0250"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 46/158

NMCVT-4358-C - Element TM packet PSICD - I

"Element TM packet PSICD " identifier shall :

- Be of IDCH13F subtype with the following limitations :
 - § From first up to third character is "element" number (IDIN03F - refer to NMCVT-4040-C),
 - § From fourth up to seventh character is "TMPS" (to refer to TM PSICD),
 - § From eighth up to tenth character is IDIN03F (type),
 - § From eleventh up to thirteenth character is IDIN03F (subtype),
- Be unique for an "element".

For instance : "001/TMPS/001/001", "012/TMPS/021/004", "011/TMPS/012/009

NMCVT-4360-C - Element TM structure - I

"Element TM structure" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - § From first up to third character is "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 an "element".

For instance : "012/TMST/0123", "987/TMST/9999", "025/TMST/0250"

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

"Element TM packet group" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - § From first up to third character is "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 an "element".

For instance : "012/TMGR/0123", "987/TMGR/9999", "025/TMGR/0250"

NMCVT-4380-C - Subsystem TM packet - I

"Subsystem TM packet" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - § From first up to eleventh character is "element TM packet" identifier (IDCH11F - refer to NMCVT-4340-C),

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 47/158

- § From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "001TMPKA000/001", "987TMPKA999/987", "025TMPKA026/925"

- NMCVT-4392-C - Subsystem TM packet SCOS archiving - I
- "Subsystem TM packet SCOS archiving" identifier shall :
- Be of IDIN09F subtype with the following limitations :
- § From first up to second character is "subsystem" number (IDIN02F - refer to NMCVT-4081b-C)
- § From third up to sixth character is "element TM packet SCOS archiving" identifier (IDIN04F - refer to NMCVT-4352-C),
- § From seventh up to ninth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "01/0123/001", "25/9999/987", "01/0250/025"

- NMCVT-4393-C - Subsystem TPCF - I
- "Subsystem TPCF" identifier shall :
- Be of IDCH12F subtype with the following limitations :
- § First character is " subsystem" type (IDCH01F- refer to NMCVT-4081a-C),
- § From second up to ninth character is "element TPCF" identifier (IDCH08F - refer to NMCVT-4353-C),
- § From tenth up to twelfth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "A/01234567/012", "Y/ABCDEFGH/987"

- NMCVT-4394-C - Subsystem TM packet standard - I
- " Subsystem TM packet standard " identifier shall :
- be of IDCH14F subtype with the following limitations :
- § From first up to eleventh character is "element TM packet standard " identifier (IDCH11F - refer to NMCVT-4356-C),
- § From twelfth up to fourteenth character is " position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "001TMSD0123/008", "010TMSD9999/018", "080TMSD0250/088"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 48/158

NMCVT-4396-C - Subsystem TM packet PSICD - I

"Subsystem TM packet PSICD" identifier shall :

- Be of IDCH16F subtype with the following limitations :

§ From first up to thirteenth character is "element TM packet PSICD" identifier (IDCH13F - refer to NMCVT-4358-C),

§ From fourteenth up to sixteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique for a "subsystem".

For instance : "012TMPS001001/001", "012TMPS021004/002", "011TMPS012009/011

NMCVT-4400-C - Subsystem TM structure - I

"Subsystem TM structure" identifier shall :

- Be of IDCH14F subtype with the following limitations :

§ From first up to eleventh character is "element TM structure" identifier (IDCH11F - refer to NMCVT-4360-C),

§ From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique for a "subsystem".

For instance : "012TMST0123/012", "987TMST9999/987", "025TMST0250/025"

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

"Subsystem TM packet group" identifier shall :

- Be of IDCH14F subtype with the following limitation :

§ From first up to eleventh character is "element TM packet group" identifier (IDCH11F - refer to NMCVT-4374-C),

§ From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique for a "subsystem".

For instance : "012TMGR0123/012", "987TMGR9999/987", "025TMGR0250/025"

NMCVT-4438-C - Model TM item - I

"Model TM item" identifier shall :

- Be identical to corresponding "subsystem TM item" identifier.

For instance : "001PKTMA000/001", "01/0123/001", "012TMST0123/012", "012TMGR0123/012"

notes :

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 49/158

1. TM item can be :
 - 1.1. TM packet standard,
 - 1.2. TM packet PSICD.
 - 1.3. TM packet,
 - 1.4. TM packet SCOS archiving (including TPCF),
 - 1.5. TM structure,
 - 1.6. TM packet group.

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

"Subsystem TM packet definition" identifier shall :

– Be of IDCH14F subtype with the following limitations :

§ From first to third character is "subsystem pseudo element" number (IDIN03F - refer to NMCVT-4040-C),

§ From fourth up to seventh character is "TMPK",

§ Eighth character is "A",

§ from ninth up to eleventh character is IDIN03F,

§ From twelfth up to fourteenth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a "subsystem".

For instance : "109/TMPK/A/000/109", "989/TMPK/A/999/989", "289/TMPK/A/026/289"

NMCVT-4441-C - Subsystem TM packet standard definition - I

"Subsystem TM packet standard definition" identifier shall :

– Be of IDCH14F subtype with the following limitations :

§ From first to third character is "subsystem pseudo element" number (IDIN03F - refer to NMCVT-4040-C),

§ From fourth up to seventh character is "TMSD",

§ from eighth up to eleventh character is IDIN04F,

§ From twelfth up to fourteenth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a "subsystem".

For instance : "109/TMSD/0000/109", "989/TMSD/0999/989", "289/TMSD/0026/289"

NMCVT-4442-C - Subsystem TM packet PSICD definition - I

" Subsystem TM packet PSICD " identifier shall :

– Be of IDCH16F subtype with the following limitations :

§ From first character up to third character is subsystem pseudo element number (IDIN03F- refer to NMCVT-4040-C),

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 50/158

- § From fourth up to seventh character is "TMPS" (to refer to TM packet PSICD),
- § From eighth up to tenth character is IDIN03F (Type),
- § From eleventh up to thirteenth character is IDIN03F (Subtype),
- § From fourteenth up to sixteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "109/TMPS/001/001/109", "989/TMPS/021/004/989", "289/TMPS/012/012/289"

- NMCVT-4445-C - Subsystem TM packet SCOS archiving definition - I
- "Subsystem TM packet SCOS archiving definition" identifier shall :
- Be of IDIN09F subtype with the following limitations :
 - § From first up to second character is "subsystem" number (IDIN02F - refer to NMCVT-4081b-C)
 - § From third up to sixth character is IDIN04F,
 - § From seventh up to ninth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
 - Be unique for a "subsystem".

For instance : "01/0123/109", "25/9999/989", "01/0250/109"

- NMCVT-4446-C - Subsystem TPCF definition - I
- "Subsystem TPCF definition" identifier shall :
- Be of IDCH12F subtype with the following limitations :
 - § First character is "subsystem type" (IDCH01F - refer to NMCVT-4081a-C),
 - § From second up to ninth character is IDCH08F,
 - § From tenth up to twelfth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
 - Be unique for a "subsystem".

For instance : "A/01234567/109", "Y/ABCDEFGH/989"

- NMCVT-4450-C - Subsystem TM structure definition - I
- "Subsystem TM structure definition" identifier shall :
- Be of IDCH14F subtype with the following limitations :
 - § From first up to third character is "subsystem pseudo 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,

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 51/158

- § From twelfth up to fourteenth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "109/TMST/0123/109", "989/TMST/9999/989", "109/TMST/0250/109"

- NMCVT-4455-C - Subsystem TM packet group definition - I
- "Subsystem TM packet group definition" identifier shall :
- Be of IDCH14F subtype with the following limitations :
- § From first up to third character is "subsystem pseudo 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,
- § From twelfth up to fourteenth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "109/TMGR/0123/109", "989/TMGR/9999/989", "109/TMGR/0250/109"

- NMCVT-4461-C - Model TM item definition - I
- "Model TM item definition" identifier shall :
- Be identical to corresponding "subsystem TM item definition" identifier replacing "subsystem pseudo element / position" by "system pseudo element / position" and "subsystem number" by "pseudo subsystem number,
 - Be unique for a "model".

For instance : "999/TMPK/A/000/999", "26/0123/999", "999/TMST/9999/999", "999/TMGR/0250/999"

Notes :

1. TM item can be :
 - 1.1. TM packet standard,
 - 1.2. TM packet PSICD.
 - 1.3. TM packet,
 - 1.4. TM packet SCOS archiving (including TPCF),
 - 1.5. TM structure,
 - 1.6. TM packet group,

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 52/158

4.3 Telecommand packets

NMCVT-4505-C - Generic TC packet header - I

"Generic TC packet header" identifier shall :

– Be of IDCH08F subtype with the following limitations :

§ First character is "G",

§ Second character is "X",

§ From third up to fifth character is IDCH03F,

§ From sixth up to eighth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– NMCVTBe unique.

For instance : "G/X/012/000", "G/X/ABC/000", "G/X/999/000", "G/X/025/000"

NMCVT-4511-C - Generic TC packet - I

"Generic TC packet" identifier shall :

– Be of IDCH08F subtype with the following limitations :

§ First character is "G",

§ Second character is "C",

§ From third up to fifth character is IDCH03F,

§ From sixth up to eighth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique.

For instance : "G/C/012/000", "G/C/ABC/000", "G/C/999/000", "G/C/025/000"

NMCVT-4513-C - Generic TC structure - I

"Generic TC structure" identifier shall :

– Be of IDCH14F subtype with the following limitations :

§ From first up to third character is "generic element" number (IDIN03F - refer to NMCVT3985-C),

§ From fourth up to seventh character is "TCST" (to refer to TC structure),

§ From eighth up to eleventh is IDIN04F,

§ From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique

For instance : "000/TCST/0123/000", "000/TCST/9999/000", "000/TCST/0250/000"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 53/158

NMCVT-4515-C	-	Generic TC packet group	-	
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"Generic TC packet group" identifier shall :

- Be of IDCH14F subtype with the following limitations :
 - § From first up to third character is "generic element" number" (IDIN03F - refer to NMCVT-3985-C),
 - § From fourth up to seventh character is "TCGR" (to refer to TC group),
 - § From eighth up to eleventh character is IDIN04F,
 - § From twelfth up to fourteenth character is "generic position" (IDIN03F - refer to NMCVT-4081c-C),
- Be unique.

For instance : "000/TCGR/0123/000", "000/TCGR/9999/000", "000/TCGR/0250/000"

NMCVT-4520-C	-	Deleted		
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NMCVT-4533-C	-	Element TC packet header	-	
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"Element TC packet header " identifier shall :

- Be of IDCH04F subtype with the following limitations :
 - § First character is "X",
 - § From second up to fourth character is IDCH03F,
- NMCVTBe unique for an "element".

For instance : "X/012", "X/ABC", "X/999", "X/025"

NMCVT-4540-C	-	Element TC packet	-	
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"Element 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 an "element".

For instance : "C/012", "C/ABC", "C/999", "C/025"

NMCVT-4560-C	-	Element TC structure	-	
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"Element TC structure" identifier shall :

- Be of IDCH11F subtype with the following limitations :
 - § From first up to third character is "element" number (IDIN03F - refer to NMCVT-4040-C),
 - § From fourth up to seventh character is "TCST" (to refer to TC structure),

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 54/158

- § From eighth up to eleventh is IDIN04F,
– Be unique for an "element".

For instance : "012/TCST/0123", "987/TCST/9999", "025/TCST/0250"

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

"Element TC packet group" identifier shall :

- Be of IDCH11F subtype with the following limitations :

§ From first up to third character is "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 an "element".

For instance : "012/TCGR/0123", "987/TCGR/9999", "025/TCGR/0250"

NMCVT-4577-C - Subsystem TC packet header - I

"Subsystem TC packet header " identifier shall :

- Be of IDCH08F subtype with the following limitations :

§ First character is "subsystem" type (IDCH01F - refer to NMCVT-4081a-C),

§ From second up to fifth character is "element TC packet header" identifier (IDCH04F - refer to NMCVT-4533-C),

§ From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique for a "subsystem".

For instance : "A/X012/012", "A/XABC/012", "Y/X999/987", "H/X025/190"

NMCVT-4580-C - Subsystem TC packet - I

"Subsystem TC packet" identifier shall :

- Be of IDCH08F subtype with the following limitations :

§ First character is "subsystem" type (IDCH01F - refer to NMCVT-4081a-C),

§ From second up to fifth character is "element TC packet" identifier (IDCH04F - refer to NMCVT-4540-C),

§ From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique for a "subsystem".

For instance : "A/C012/012", "A/CABC/012", "Y/C999/987", "H/C025/190"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 55/158

NMCVT-4600-C - Subsystem TC structure - I

"Subsystem TC structure" identifier shall :

– Be of IDCH14F subtype with the following limitations :

§ From first up to eleventh character is "element TC structure" identifier (IDCH11F - refer to NMCVT-4560-C),

§ From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a "subsystem".

For instance : "012TCST0123/012", "987TCST9999/987", "025TCST0250/025"

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

"Subsystem TC packet group" identifier shall :

– Be of IDCH14F subtype with the following limitation :

§ From first up to eleventh character is "element TC packet group" identifier (IDCH11F - refer to NMCVT-4574-C),

§ From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a "subsystem".

For instance : "012TCGR0123/012", "987TCGR9999/987", "025TCGR0250/025"

NMCVT-4638-C - Model TC item - I

"Model TC item" identifier shall :

– Be identical to corresponding "subsystem TC item" identifier.

For instance : "A/C012/012", "012TCST0123/012", "012TCGR0123/012"

Notes :

1. TC item can be :
 - 1.1. TC packet header,
 - 1.2. TC packet,
 - 1.3. TC structure,
 - 1.4. TC packet group.

NMCVT-4639-C - Subsystem TC packet header definition - I

"Subsystem TC packet header definition" identifier shall :

– Be of IDCH08F subtype with the following limitations :

§ First character is "subsystem" type (IDCH01F - refer to NMCVT-4081a-C),

§ Second character is "X",

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 56/158

- § From third up to fifth character is IDCH03F,
- § From sixth up to eighth character is subsystem "pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "A/X/012/109", "A/X/ABC/109", "Y/X/999/989", "H/X/025/289"

- NMCVT-4640-C - Subsystem TC packet definition - I
- "Subsystem TC packet definition" identifier shall :
- Be of IDCH08F subtype with the following limitations :
 - § First character is "subsystem" type (IDCH01F - refer to NMCVT-4081a-C),
 - § Second character is "C",
 - § From third up to fifth character is IDCH03F,
 - § From sixth up to eighth character is subsystem "pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
 - Be unique for a "subsystem".

For instance : "A/C/012/109", "A/C/ABC/109", "Y/C/999/989", "H/C/025/289"

- NMCVT-4650-C - Subsystem TC structure definition - I
- "Subsystem TC structure definition" identifier shall :
- Be of IDCH14F subtype with the following limitations :
 - § From first up to third character is "subsystem pseudo 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,
 - § From twelfth character up to fourteenth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
 - Be unique for a "subsystem".

For instance : "109/TCST/0123/109", "989/TCST/9999/989", "289/TCST/0250/289"

- NMCVT-4655-C - Subsystem TC packet group definition - I
- "Subsystem TC packet group definition" identifier shall :
- Be of IDCH14F subtype with the following limitation :
 - § From first up to third character is "subsystem pseudo element" number" (IDIN03F - refer to NMCVT-4040-C),
 - § From fourth up to seventh character is "TCGR" (to refer to TC group),

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 57/158

- § From eighth up to eleventh character is IDIN04F,
- § From twelfth up to fourteenth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "109/TCGR/0123/109", "989/TCGR/9999/989", "289/TCGR/0250/289"

- NMCVT-4656-C - Model TC item definition - |
- "Model TC item definition" identifier shall :
- Be identical to corresponding "subsystem item definition" identifier replacing "subsystem pseudo position / element" by "system pseudo position / element" and "subsystem identifier" by "pseudo subsystem identifier",
 - Be unique for a "model".

For instance : "Z/C/012/999", "999/TCST/0123/999", "999/TCGR/0123/999"

Notes :

1. TC item can be :
 - 1.1. TC packet header.
 - 1.2. TC packet,
 - 1.3. TC structure,
 - 1.4. TC packet group,

4.4 Command sequences

- NMCVT-4657-C - Generic command sequence - |
- "Generic command sequence" identifier shall :
- Be of IDCH08F subtype with the following limitations :
 - § First character is "generic subsystem" type (IDCH01F- refer to NMCVT-4081a-C),
 - § Second character is "S",
 - § From third up to fifth character is IDCH03F,
 - § From sixth up to eighth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
 - Be unique.

For instance : G/S/012/000", "G/S/ABC/000", "G/S/999/000", "G/S/025/000"

- NMCVT-4657a-C - Generic formal parameter - |
- "Generic formal parameter" identifier shall :
- Be of IDCH08F subtype,

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 58/158

- Be unique for a generic command sequence.

For instance : "BLABLABL"

NMCVT-4659-C - Element command sequence - |

"Element command sequence" identifier shall :

- Be of IDCH04F subtype with the following limitations :

§ First character is "S",

§ From second to fourth character is IDCH03F,

- Be unique for an "element".

For instance : "S/012", "S/ABC", "S/999", "S/025"

NMCVT-4660-C - Deleted

NMCVT-4660a-C - Element formal parameter - |

"Element parameter" identifier shall :

- Be of IDCH08F subtype,

- Be unique for an "element command sequence".

For instance : "BLABLABL"

NMCVT-4672-C - Subsystem command sequence - |

"Subsystem command sequence" identifier shall :

- Be of IDCH08F subtype with the following limitations :

§ First character is "subsystem" type (IDCH01F- refer to NMCVT-4081a-C),

§ From second up to fifth character is "element command sequence" identifier (IDCH04F- refer to NMCVT-4659-C),

§ From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique for a "subsystem".

For instance : "A/S012/012", "A/SABC/012", "Y/S999/987", "H/S025/190"

NMCVT-4672a-C - Subsystem formal parameter - |

"Subsystem formal parameter" identifier shall :

- Be of IDCH08F subtype,

- Be unique for a "subsystem command sequence".

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 59/158

For instance : "BLABLABL"

Note: there no instantiation of the formal parameter identifier as soon as it is uniquely associated to a command sequence which is instantiated.

NMCVT-4674-C - Model command sequence - |

"Model command sequence" identifier shall :

- Be identical to corresponding "subsystem command sequence" identifier.

For instance : "A/S012/012", "A/SABC/012", "Y/S999/987", "H/S025/190"

NMCVT-4674a-C - Model formal parameter - |

"Model formal parameter" identifier shall :

- Be of IDCH08F subtype,
- Be unique for a "model command sequence".

For instance : "BLABLABL"

NMCVT-4675-C - Subsystem command sequence definition - |

"Subsystem command sequence definition" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - § First character is "subsystem" type (IDCH01F- refer to NMCVT-4081a-C),
 - § second character is "S",
 - § From third to fifth character is IDCH03F,
 - § From sixth up to eighth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "A/S/012/109", "A/S/ABC/109", "Y/S/999/989", "H/S/025/289"

NMCVT-4675a-C - Subsystem formal parameter definition - |

"Subsystem formal parameter definition" identifier shall :

- Be of IDCH08F subtype,
- Be unique for a "subsystem command sequence".

For instance : "BLABLABL"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 60/158

NMCVT-4676-C - Model command sequence definition - I

"Model command sequence definition" identifier shall :

- Be identical to corresponding "subsystem command sequence definition" identifier replacing "subsystem pseudo position" by "system pseudo position" and "subsystem identifier" by "pseudo subsystem identifier",
- Be unique for a "model".

For instance : "Z/S012/999", "Z/SABC/999", "Z/S999/999", "Z/S025/999"

NMCVT-4676a-C - Model formal parameter definition - I

"Model formal parameter definition" identifier shall :

- Be of IDCH08F subtype,
- Be unique for a "model command sequence".

For instance : "BLABLABL"

4.5 Command verification stage

NMCVT-4677-Intruments-C - Instrument command verification stage - I

For instruments only, the command verification stage identifier shall :

- Be of IDIN04F subtype for non generic CVS identifier and IDIN05F subtype ($9999 < \text{CVS id} < 20000$) for generic identifier such that S2K CVS identifier is generic CVS identifier (AD1) + 10000,
- Be unique for one instrument.

For instance : "0000", "9999", "1234"

NMCVT-4677-C - Generic command verification stage - I

"Generic command verification stage" identifier shall :

- Be of IDIN09F subtype with the following limitations :

§ From first up to second character is "generic subsystem type" number (IDIN02F - refer to NMCVT-4081b-C),

§ From third up to sixth character is IDIN04F,

§ From seventh up to ninth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

Be unique.

For instance : "07/0000/000", "07/0123/000", "07/9999/000", "07/0025/000"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 61/158

NMCVT-4679-C - Element command verification stage - I

"Element command verification stage " identifier shall :

- Be of IDIN04F subtype,
- Be unique for an "element".

For instance : "0000", "0123", "9999", "0025"

NMCVT-4680-C - Deleted

NMCVT-4682-C - Subsystem command verification stage - I

"Subsystem command verification stage " identifier shall :

- Be of IDIN09F subtype with the following limitations :

§ From first up to second character is "subsystem type" number (IDIN02F - refer to NMCVT-4081b-C),

§ From third up to sixth character is "element command verification stage " identifier (IDIN04F- refer to NMCVT-4679-C),

§ From seventh up to ninth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

Be unique for a " subsystem".

For instance : "01/0000/001", "01/0123/012", "26/9999/987", "08/0025/190"

NMCVT-4684-C - Model command verification stage - I

"Model command verification stage" identifier shall :

- Be identical to corresponding "subsystem command verification stage" identifier.

For instance : "01/0000/001", "01/0123/012", "26/9999/987", "08/0025/190"

NMCVT-4685-C - Deleted

NMCVT-4687-C - Subsystem command verification stage definition - I

" Subsystem command verification stage definition" identifier shall :

- Be of IDIN09F subtype with the following limitations :

§ From first up to second character is "subsystem type number" (IDIN02F - refer to NMCVT-4081b-C),

§ From third up to sixth character is IDIN04F,

§ From seventh up to ninth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique for a "subsystem".

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 62/158

For instance : "01/0000/109", "01/0123/109", "25/9999/989", "08/0025/289"

NMCVT-4688-C - Model command verification stage definition - I

"Model command verification stage definition" identifier shall :

- Be identical to corresponding "subsystem command verification stage definition" identifier replacing "subsystem pseudo position" by "system pseudo position" and "subsystem number" by "pseudo subsystem number",
- Be unique for a "model".

For instance : "26/0000/999", "26/0123/999", "26/9999/999", "26/0025/999"

NMCVT-4690-C - Deleted

4.6 1553 messages

NMCVT-4702-C - Deleted

NMCVT-4705-C - Deleted

NMCVT-4711-C - Deleted

NMCVT-4713-C - Deleted

NMCVT-4715-C - Deleted

NMCVT-4717-C - Deted

NMCVT-4720-C - Deleted

NMCVT-4725-C - Deleted

NMCVT-4726-C - Deleted

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 63/158

NMCVT-4730-C - Deleted

NMCVT-4752-C - Deleted

NMCVT-4760-C - Deleted

NMCVT-4774-C - Deleted

NMCVT-4777-C - Deleted

NMCVT-4780-C - Deleted

NMCVT-4791-C - Deleted

NMCVT-4795-C - Deleted

NMCVT-4800-C - Deleted

NMCVT-4820-C - Deleted

NMCVT-4838-C - Deleted

NMCVT-4839-C - Deleted

NMCVT-4840-C - Deleted

NMCVT-4841-C - Deleted

NMCVT-4845-C - Deleted

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 64/158

NMCVT-4850-C - Deleted

NMCVT-4855-C - Deleted

NMCVT-4865-C - Deleted

4.7 OBDH interfaces

NMCVT-4961-C - Deleted

NMCVT-4963-C - Deleted

NMCVT-4965-C - Deleted

NMCVT-4974-C - Deleted

NMCVT-4977-C - Deleted

NMCVT-4990-C - Deleted

NMCVT-5020-C - Deleted

NMCVT-5040-C - Deleted

NMCVT-5044-C - Deleted

NMCVT-5048-C - Deleted

NMCVT-5060-C - Deleted

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 65/158

NMCVT-5070-C - Deleted

NMCVT-5080-C - Deleted

NMCVT-5088-C - Deleted

4.8 Parameters

Notes : formal parameters are not concerned by the following requirements as far as they are unique for a command sequence.

NMCVT-5104-C - Generic parameter - I
"Generic parameter" identifier shall :
– Be of IDCH08F subtype with the following limitations :
§ First character is "generic subsystem" identifier (IDCH01F - refer NMCVT-4081a-C),
§ Second character is IDE201F (refer to NMCVT-0110-C),
§ From third up to fifth character is IDCH03F,
§ From sixth up to eighth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
– Be unique.

For instance : "G/M/012/000", "G/P/ABC/000", "G/D/999/000", "G/U/025/000"

Note : Due to SCOS-2000 limitations, "VAR" and "GVAR" as first 3 or four characters of parameters are prohibited

NMCVT-5106-C - Generic parameter group - I
"Generic parameter group " identifier shall :
– Be of IDCH14F subtype with the following limitation :
§ From first up to third character is "generic element" number (IDIN03F - refer to NMCVT-3985-C),
§ From fourth up to seventh character is "PAGR" (to refer to parameter group),
§ From eighth up to eleventh character is IDIN04F,
§ From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
– Be unique.

For instance : "000/PAGR/0123/000", "000/PAGR/9999/000", "000/PAGR/0025/000"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 66/158

NMCVT-5110-C - Element parameter - I

"Element parameter" identifier shall :

- Be of IDCH04F subtype with the following limitations :
 - § First character is IDE201F (refer to NMCVT-0110-C),
 - § From second up to fourth character is IDCH03F,
- Be unique for an "element".

For instance : "M/012", "P/ABC", "D/999", "U/025"

Note : Due to SCOS-2000 limitations, "VAR" and "GVAR" as first 3 or four characters of parameters are prohibited

NMCVT-5120-C - Deleted

NMCVT-5126-C - Element parameter group - I

"Element parameter group" identifier shall :

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

For instance : "012/PAGR/0012", "987/PAGR/9999", "025/PAGR/0025"

NMCVT-5130-C - Subsystem parameter - I

"Subsystem parameter" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - § First character is subsystem identifier (IDCH01F - refer to NMCVT-4081a-C),
 - § From second up to fifth character is "element parameter" identifier (IDCH04F - refer to NMCVT-5110-C),
 - § From sixth character up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "A/M012/012", "A/PABC/012", "Y/D999/987", "H/U025/190"

Note : Due to SCOS-2000 limitations, "VAR" and "GVAR" as first 3 or four characters of parameters are prohibited

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 67/158

NMCVT-5150-C - Subsystem parameter definition - I

"Subsystem parameter definition" identifier shall :

– Be of IDCH08F subtype with the following limitations :

§ First character is " subsystem " type (IDCH01F - refer to NMCVT-4081a-C),

§ Second character is IDE201F (refer to NMCVT-0110-C),

§ From third up to fifth character is IDCH03F,

§ From sixth up to eighth character is " subsystem pseudo position " identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a " subsystem ".

For instance : "A/M/012/109", "A/P/ABC/109", "Y/D/999/989", "Y/U/025/989"

Note : Due to SCOS2000, "VAR" and "GVAR" as first 3 or four characters of real parameters are prohibited

NMCVT-5160-C - Subsystem parameter group - I

"Subsystem parameter group" identifier shall :

– Be of IDCH14F subtype with the following limitation :

§ From first up to eleventh character is " element parameter group " identifier (IDCH11F - refer to NMCVT-5126-C),

§ From twelfth up to fourteenth character is " position " identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a " subsystem ".

For instance : "012PAGR0012/012", "987PAGR9999/987", "025PAGR0025/025"

NMCVT-5175-C - Subsystem parameter group definition - I

"Subsystem parameter group definition" identifier shall :

– Be of IDCH14F subtype with the following limitation :

§ From first up to third character is " subsystem pseudo element " number (IDIN03F - refer to NMCVT-4040-C),

§ From fourth up to seventh character is " PAGR " (to refer to parameter group),

§ From eighth up to eleventh character is IDIN04F,

§ From twelfth up to fourteenth character is " subsystem pseudo position " identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a " subsystem ".

For instance : "109/PAGR/0123/109", "989/PAGR/9999/989", "289/PAGR/0025/289"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 68/158

NMCVT-5201-C	-	Generic parameter set	-	
"Generic parameter set" identifier shall :				
- Be of IDCH08F subtype with the following limitations :				
§		First character is "generic subsystem" type (IDCH01F - refer to NMCVT-4081a-C),		
§		Second character is "T",		
§		From third up to fifth character is IDCH03F,		
§		From sixth up to eighth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),		
- Be unique.				

For instance : "G/T/012/000", "G/T/ABC/000", "G/T/999/000", "G/T/025/000"

NMCVT-5210-C	-	Element parameter set	-	
"Element parameter set" identifier shall :				
- Be of IDCH04F subtype with the following limitations :				
§		First character is "T",		
§		From second up to fourth character is IDCH03F,		
- Be unique for an "element".				

For instance : "T/012", "T/ABC", "T/999", "T/025"

NMCVT-5215-C	-	Subsystem parameter set	-	
"Subsystem parameter set" identifier shall :				
- Be of IDCH08F subtype with the following limitations :				
§		First character is "subsystem" type (IDCH01F - refer to NMCVT-4081a-C),		
§		From second up to fifth character is "element parameter set" identifier (IDCH04F - refer to NMCVT-5210-C),		
§		From sixth character up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),		
- Be unique for a "subsystem".				

For instance : "A/T012/012", "Y/TABC/987", "Y/T999/987", "H/T025/190"

NMCVT-5217-C	-	Subsystem parameter set definition	-	
"Subsystem parameter set definition" identifier shall :				
- Be of IDCH08F subtype with the following limitations :				
§		First character is "subsystem" type (IDCH01F - refer to NMCVT-4081a-C),		
§		Second character is "T",		

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 69/158

- § From third up to fifth character is IDCH03F,
- § From sixth up to eighth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "A/T/012/109", "A/T/ABC/109", "Y/T/999/989", "Y/T/025/989"

- NMCVT-5218-C - Generic parameter value set - I
- "Generic parameter value set definition" identifier shall :
- Be of IDCH08F subtype with the following limitations :
 - § First character is "generic subsystem" type (IDCH01F - refer to NMCVT-4081a-C),
 - § Second character is "V",
 - § From third up to fifth character is IDCH03F,
 - § From sixth up to eighth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
 - Be unique.

For instance : "G/V/012/000", "G/V/ABC/000", "G/V/999/000", "G/V/025/000"

- NMCVT-5220-C - Element parameter value set - I
- "Element parameter value set" identifier shall :
- Be of IDCH04F subtype with the following limitations :
 - § First character is "V",
 - § From second up to fourth character is IDCH03F,
 - Be unique for an "element".

For instance : "V/012", "V/ABC", "V/999", "V/025"

- NMCVT-5225-C - Subsystem parameter value set - I
- "Subsystem parameter value set" identifier shall :
- Be of IDCH08F subtype with the following limitations :
 - § First character is subsystem identifier (IDCH01F - refer to NMCVT-4081a-C),
 - § From second up to fifth character is "element parameter value set" identifier (IDCH04F - refer to NMCVT-5220-C),
 - § From sixth character up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
 - Be unique for a "subsystem".

For instance : "A/V012/012", "Y/VABC/987", "Y/V999/987", "H/V025/190"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 70/158

NMCVT-5227-C	-	Subsystem parameter value set definition	-	I
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"Subsystem parameter value set definition" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - § First character is "subsystem" type (IDCH01F - refer to NMCVT-4081a-C),
 - § Second character is "V",
 - § From third up to fifth character is IDCH03F,
 - § From sixth up to eighth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "A/V/012/109", "A/V/ABC/109", "Y/V/999/989", "Y/V/025/989"

NMCVT-5245-Instruments-C	-	Instrument parameter range set	-	I
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For instruments only, the parameter range set identifier shall :

- Be of IDIN03F subtype for non generic parameter range set identifier and IDIN04F subtype (999 < parameter range set identifier > 2000) for generic parameter range set identifier such that S2K parameter range set identifier is generic parameter range set identifier (AD1) + 1000,
- Be unique for one instrument.

For instance : "000", "999", "123"

NMCVT-5245-C	-	Generic parameter range set	-	I
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"Generic parameter set definition" identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - § First character is "generic subsystem" type (IDCH01F - refer to NMCVT-4081a-C),
 - § Second character is "R",
 - § From third up to fifth character is IDIN03F,
 - § From sixth up to eighth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique.

For instance : "G/R/012/000", "G/R/ABC/000", "G/R/999/000", "G/R/025/000"

NMCVT-5250-C	-	Element parameter range set	-	I
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"Element parameter range set" identifier shall :

- Be of IDCH04F subtype with the following limitations :
 - § First character is "R",

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 71/158

- § From second up to fourth character is IDIN03F,
– Be unique for an "element".

For instance : "R/012", "R/ABC", "R/999", "R/025"

- NMCVT-5255-C - Subsystem parameter range set - I
- "Subsystem parameter range set" identifier shall :
- Be of IDCH08F subtype with the following limitations :
 - § First character is subsystem identifier (IDCH01F - refer to NMCVT-4081a-C),
 - § From second up to fifth character is "element parameter range set" identifier (IDCH04F - refer to NMCVT-5250-C),
 - § From sixth character up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
 - Be unique for a "subsystem".

For instance : "A/R012/012", "Y/RABC/987", "Y/R999/987", "H/R025/190"

- NMCVT-5257-C - Subsystem parameter range set definition - I
- "Subsystem parameter set definition" identifier shall :
- Be of IDCH08F subtype with the following limitations :
 - § First character is "subsystem" type (IDCH01F - refer to NMCVT-4081a-C),
 - § Second character is "R",
 - § From third up to fifth character is IDIN03F,
 - § From sixth up to eighth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
 - Be unique for a "subsystem".

For instance : "A/R/012/109", "A/R/ABC/109", "Y/R/999/989", "Y/R/025/989"

NMCVT-5260-C - Deleted

NMCVT-5263-C - Deleted

NMCVT-5266-C - Deleted

NMCVT-5269-C - Deleted

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 72/158

NMCVT-5270-C - Model parameter item - I

"Model parameter item" identifier shall :

- Be identical to corresponding "subsystem parameter item" identifier.

For instance : "A/M012/012", "A/T012/012", "A/V012/012", "A/R012/012"

Notes :

1. Parameter item can be :
 - 1.1. Parameter,
 - 1.2. Parameter group,
 - 1.3. Parameter set,
 - 1.4. Parameter value set,
 - 1.5. Parameter range set.

NMCVT-5280-C - Model parameter item definition - I

"Model parameter item definition" identifier shall :

- Be identical to corresponding "subsystem parameter item definition" identifier replacing "subsystem pseudo position / element" by "system pseudo position / element" and "subsystem identifier" by "pseudo subsystem identifier",
- Be unique for a "model".

For instance : "Z/M012/999", "Z/T012/999", "Z/V012/999", "Z/R012/999"

Notes :

1. Parameter item can be :
 - 1.1. Parameter,
 - 1.2. Parameter group,
 - 1.3. Parameter set,
 - 1.4. Parameter value set,
 - 1.5. Parameter range set.

4.9 Curves

NMCVT-5354-Instruments-C - Instrument curve - I

For instruments only, the curve identifier shall :

- Be of IDIN03F subtype for non generic curve identifier and IDIN04F subtype (999 < curve identifier < 2000) for generic curve identifier such that S2K curve identifier is generic curve identifier (fifth up to seventh character) (AD1) + 1000,
- Be unique for one instrument.

For instance : "000", "999", "123"

Note : warning this identifier shall be unique for the instrument and not per instrument and per type (numerical / digital) as supported by SCOS instrument.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 73/158

NMCVT-5355-C - Deleted

NMCVT-5301-C - Generic curve - I

"Generic curve" identifier shall :

– Be of IDCH10F subtype with the following limitations :

§ First character is "G",

§ From second up to fourth character is generic element number (IDCH03F – refer to NMCVT-3985-C),

§ From fifth up to seventh character is IDIN03F,

§ From eighth up to tenth character is "generic position" identifier,

– Be unique.

For instance : "G/000/012/000", "G/000/999/000", "G/000/125/000"

NMCVT-5360-C - Deleted

NMCVT-5321-C - Element curve - I

"Element curve" identifier shall :

– Be of IDIN06F subtype with the following limitations :

§ From first up to third character is "theoretical element" number (IDIN03F - refer to requirement NMCVT-4040-C),

§ From fourth to sixth character is IDIN03F,

– Be unique for an "element".

For instance : "012/012", "025/025", "107/863".

– NMCVT-5365-C - Deleted

– NMCVT-5365a-C - Deleted

NMCVT-5341-C - Subsystem curve - I

"Subsystem curve" identifier shall :

– Be of IDIN10F subtype with the following limitations :

§ First character is " subsystem " type (IDCH01F – refer to NMCVT-4081a-C)

§ From second up to seventh character is "element curve" identifier (IDIN06F - refer to requirement NMCVT-5321-C),

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 74/158

§ From eighth to tenth character is "position" identifier (IDIN03F – refer to NMCVT-4081c-C),
– Be unique for a " subsystem".

For instance : "A/012012/012", "A/025025/025", "A/107863/023"

– NMCVT-5367-C - Deleted Theoretical subsystem curve

– NMCVT-5368-C - Deleted

For instance : "AM012012/01", "APABC012/50", "YD999987/99", "HU025190/25"

– NMCVT-5368a-C - Deleted

NMCVT-5361-C - Model curve - I

"Model curve" identifier shall :

– Be identical to corresponding "subsystem curve identifier".

For instance : "A/012012/012", "A/025025/025", "A/107863/023"

– NMCVT-5370-C - Deleted

– NMCVT-5375-C - Deleted

– NMCVT-5375a-C - Deleted

NMCVT-5371-C - Subsystem curve definition - I

"Subsystem curve definition" identifier shall :

– Be of IDIN10F subtype with the following limitations :

§ First character is "subsystem" type (IDCH01F – refer to NMCVT-4081a-C)

§ From second up to fourth character is "pseudo element" number (IDIN03F - refer to requirement NMCVT-4040-C),

§ From fifth to seventh character is IDIN03F,

§ From eighth to tenth character is "subsystem pseudo position" identifier (IDIN03F – refer to NMCVT-4081c-C),

– Be unique for a " subsystem".

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 75/158

For instance : "A/109012/109", "A/109025/025", "H/239863/239"

NMCVT-5381-C - Model curve definition - I

"Model curve definition" identifier shall :

- § Be identical to corresponding "subsystem curve definition" identifier replacing "subsystem pseudo position" by "system pseudo position" and "subsystem type" by "pseudo subsystem type",
- Be unique for a " model".

For instance : "Z/999012/999"

4.10 Displays

NMCVT-6040-C - Generic alphanumeric display - I

" Generic alphanumeric display " identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - § First character is generic subsystem identifier (IDCH01F- refer to NMCVT-4081a-C),
 - § Second character is "A",
 - § From third up to fifth character is IDCH03F,
 - § From sixth up to eighth character is " generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique.

For instance : "G/A/012/000", "G/A/ABC/000", "G/A/999/000", "G/A/025/000"

NMCVT-6042-C - Generic graphic display - I

" Generic graphic display " identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - § First character is generic subsystem identifier (IDCH01F- refer to NMCVT-4081a-C),
 - § Second character is "G",
 - § From third up to fifth character is IDCH03F,
 - § From sixth up to eighth character is " generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique.

For instance : "G/G/012/000", "G/G/ABC/000", "G/G/999/000", "G/G/025/000"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 76/158

NMCVT-6044-C - Generic scrolling display - I

"Generic scrolling display" identifier shall :

- Be of IDCH08F subtype with the following limitations :

§ First character is generic subsystem identifier (IDCH01F- refer to NMCVT-4081a-C),

§ Second character is "L",

§ From third up to fifth character is IDCH03F,

§ From sixth up to eighth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique.

For instance : "G/L/012/000", "G/L/ABC/000", "G/L/999/000", "G/L/025/000"

NMCVT-6046-C - Generic variable SCOS packet display - I

"Generic variable SCOS packet display" identifier shall :

- Be of IDCH08F subtype with the following limitations :

§ First character is generic subsystem identifier (IDCH01F- refer to NMCVT-4081a-C),

§ Second character is "W",

§ From third up to fifth character is IDCH03F,

§ From sixth up to eighth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C),

- Be unique.

For instance : "G/W/012/000", "G/W/ABC/000", "G/W/999/000", "G/W/025/000"

NMCVT-6050-C - Element alphanumeric display - I

"Element alphanumeric display" identifier shall :

Be of IDCH04F subtype with the following limitations :

§ First character is "A",

§ From second up to fourth character is IDCH03F,

- Be unique for an "element".

For instance : "A/012", "A/ABC", "A/999", "A/025"

NMCVT-6100-C - deleted

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 77/158

NMCVT-6105-C - Element Graphic display - I

" Element graphic display" identifier shall :

- Be of IDCH04F subtype with the following limitations :
 - § First character is "G",
 - § From second up to fourth character is IDCH03F,
- Be unique for an "element ".

For instance : "G/012", "G/ABC", "G/999", "G/025"

NMCVT-6110-C - deleted

NMCVT-6120-C - deleted

NMCVT-6125-C - deleted

NMCVT-6128-C - Element scrolling display - I

" Element scrolling display" identifier shall :

- Be of IDCH04F subtype with the following limitations :
 - § First character is "L",
 - § From second up to fourth character is IDCH03F,
- Be unique for an "element ".

For instance : "L/012", "L/ABC", "L/999", "L/025"

NMCVT-6130-C - deleted

NMCVT-6135-C - Element variable SCOS packet display - I

" Element scrolling display" identifier shall :

- Be of IDCH04F subtype with the following limitations :
 - § First character is "W",
 - § From second up to fourth character is IDCH03F,
- Be unique for an "element ".

For instance : "W/012", "W/ABC", "W/999", "W/025"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 78/158

NMCVT-6150-C - Subsystem display - I

"Subsystem display" identifier shall :

– Be of IDCH08F subtype with the following limitations :

§ First character is "subsystem" identifier (IDCH01F- refer to NMCVT-4081a-C),

§ From second to fifth character is element display identifier (IDCH04F - refer to NMCVT-6050-C / NMCVT-6105-C / NMCVT-6128-C),

§ From sixth up to eighth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a "subsystem".

For instance : "A/A012/012", "A/WABC/012", "Y/G999/987", "H/L025/190"

NMCVT-6156-C - Model display - I

"Model display" identifier shall :

– Be identical to corresponding "subsystem display" identifier.

For instance : "A/A012/012", "A/WABC/012", "Y/G999/987", "H/L025/190"

NMCVT-6160-C - Subsystem alphanumeric display definition - I

"Subsystem alphanumeric display definition" identifier shall :

– Be of IDCH08F subtype with the following limitations :

§ First character is subsystem identifier (IDCH01F- refer to NMCVT-4081a-C),

§ Second character is "A",

§ From third up to fifth character is IDCH03F,

§ From sixth up to eighth character is "subsystem pseudo position" number (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a "subsystem".

For instance : "A/A/012/109", "A/A/ABC/109", "Y/A/999/989", "Y/A/025/989"

NMCVT-6170-C - Subsystem graphic display definition - I

"Subsystem graphic display definition " identifier shall :

– Be of IDCH08F subtype with the following limitations :

§ First character is subsystem identifier (IDCH01F- refer to NMCVT-4081a-C),

§ Second character is "G",

§ From third up to fifth character is IDCH03F,

§ From sixth up to eighth character is "subsystem pseudo position" number (IDIN03F - refer to NMCVT-4081c-C),

– Be unique for a "subsystem".

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 79/158

For instance : "A/G/012/109", "A/G/ABC/109", "Y/G/999/989", "Y/G/025/989"

NMCVT-6200-C	-	Subsystem scrolling display definition	-	I
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"Subsystem scrolling display definition " identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - § First character is subsystem identifier (IDCH01F- refer to NMCVT-4081a-C),
 - § Second character is "L",
 - § From third up to fifth character is IDCH03F,
 - § From sixth up to eighth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "A/L/012/109", "A/L/ABC/109", "Y/L/999/989", "Y/L/025/989"

NMCVT-6205-C	-	Subsystem variable SCOS packet display definition	-	I
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"Subsystem scrolling display definition " identifier shall :

- Be of IDCH08F subtype with the following limitations :
 - § First character is subsystem identifier (IDCH01F- refer to NMCVT-4081a-C),
 - § Second character is "W",
 - § From third up to fifth character is IDCH03F,
 - § From sixth up to eighth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "A/W/012/109", "A/W/ABC/109", "Y/W/999/989", "Y/W/025/989"

NMCVT-6210-C	-	Model display item definition	-	I
--------------	---	-------------------------------	---	---

"Model display item definition " identifier shall :

- Be identical to corresponding "subsystem display item definition" identifier replacing "subsystem pseudo position" by "system pseudo position and "subsystem identifier" by "pseudo subsystem identifier",
- Be unique for a "model".

For instance : "Z/A/012/999", "Z/G/ABC/999", "Z/L/999/999"

Notes :

1. Display item can be :
 - 1.1. Alphanumeric display,
 - 1.2. Graphic display,
 - 1.3. Scrolling display,

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 80/158

1.4. Variable SCOS packet display.

4.11 Constants

NMCVT-6305-C	-	Generic constant	-	
" Generic constant " identifier shall :				
- Be of IDCH08F subtype with the following limitations :				
§		First character is "generic subsystem" identifier (IDCH01F - refer NMCVT-4081a-C),		
§		Second character is "K",		
§		From third up to fifth character is IDCH03F,		
§		From Sixth up to eighth character is "generic position" identifier (IDIN03F – refer to NMCVT-4081c-C),		
- Be unique.				

For instance : "G/K/012/000", "G/K/999/000"

NMCVT-6310-C	-	Element constant	-	
" Element constant" identifier shall :				
- Be of IDCH04F subtype with the following limitations :				
§		First character is "K",		
§		From second up to third character is IDCH03F,		
- Be unique for an "element".				

For instance : "K/012", "K/ABC", "K/999"

NMCVT-6330-C	-	Subsystem constant	-	
" Subsystem constant " identifier shall :				
- Be of IDCH08F subtype with the following limitations :				
§		First character is subsystem identifier (IDCH01F- refer to NMCVT-4081a-C),		
§		From second up to fifth character is "element constant" identifier (IDCH04F - refer to NMCVT-6310-C),		
§		From sixth up to eighth character is "position" identifier (IDIN03F- refer to NMCVT-4081c-C),		
- Be unique for a " subsystem ".				

For instance : "A/K012/012", "Y/KABC/988", "H/K999/190"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 81/158

NMCVT-6341-C - Model constant - |

" Model constant " identifier shall :

- Be identical to corresponding "subsystem constant" identifier.

For instance : "A/K012/012", "Y/KABC/988", "H/K999/190"

NMCVT-6350-C - Subsystem constant definition - |

" Subsystem constant definition" identifier shall :

- Be of IDCH08F subtype with the following limitations :

§ First character is "subsystem" type (IDCH01F- refer to NMCVT-4081a-C),

§ Second character is "K",

§ From third up to fifth character is IDCH03F,

§ From sixth up to eighth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),

Be unique for a "subsystem".

For instance : "A/K/012/109", "Y/K/ABC/989", "H/K/999/289"

NMCVT-6360-C - Model constant definition - |

" Model constant definition" identifier shall :

- Be identical to corresponding "subsystem constant definition" identifier replacing "subsystem pseudo position" by "system pseudo position" and "subsystem identifier" by "pseudo subsystem identifier",

Be unique for a "model".

For instance : "Z/K/012/999", "Z/K/ABC/999", "Z/K/999/999"

4.12 Reason of change

NMCVT-6370-C - Deleted

NMCVT-6374-C - Deleted

NMCVT-6378-C - Deleted

NMCVT-6382-C - Deleted

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 82/158

NMCVT-6384-C - Deleted

NMCVT-6386-C - Deleted

4.13 File

NMCVT-6405-C - Deleted

NMCVT-6410-C - Deleted

NMCVT-6430-C - Deleted

NMCVT-6441-C - Deleted

NMCVT-6450-C - Deleted

NMCVT-6460-C - Deleted

4.14 Site identifiers

The site identifiers are used as part of the change reason identifier, in order that each site can allocate its own change reason identifier.

NMCVT-6730-C Site identifier - I

The site identifier allocation shall be done as follows :

Site name	Identifier
Generic	00
Central	01
AVM	02
H-SVM	03
P-SVM	04
H-EQM	05
P-CQM	06

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 83/158

H-ACMS	07
P-ACMS	08
ISV	09
ESOC	10

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 84/158

5. DETAIL ALLOCATION REQUIREMENTS

5.1 Models

NMCVT-7400-C - Model identifiers allocation - |

The model identifiers allocation shall be as follows :

TBW

5.2 Subsystems

NMCVT-7500-C - Subsystem identifiers allocation - |

The subsystem identifiers allocation shall be as follows :

Subsystem type	Subsystem type Number	Herschel	Planck
- "A"	01	ACMS	ACMS
- "B"	02	Spare	Spare
- "C"	03	RCS	RCS
- "D"	04	CDMS	CDMS
- "E"	05	Spare	Spare
- "F"	06	Spare	Spare
- "G"	07	Generic	Generic
- "H"	08	HIFI	HFI
- "I"	09	Forbidden	Forbidden
- "J"	10	Spare	Spare
- "K"	11	Kryo	FOG (TBC)
- "L"	12	Spare	LFI
- "M"	13	Radiation monitor	Radiation monitor
- "N"	14	Spare	Spare
- "O"	15	Forbidden	Forbidden
- "P"	16	PACS	Spare
- "Q"	17	Forbidden	Forbidden
- "R"	18	Radio frequency (TT&C)	Radio frequency (TT&C)
- "S"	19	SPIRE	Sorption cooler

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 85/158

- "T"	20	Thermal control	Thermal control
- "U"	21	Spare	Spare
- "V"	22	Visual monitor camera	Visual monitor camera
- "W"	23	Electrical power	Electrical power
- "X"	24	Reserved for ESOC	Reserved for ESOC
- "Y"	25	EGSE	EGSE
- "Z"	26	Pseudo	Pseudo

5.3 Theoretical elements

The following list has to be completed.

NMCVT-7510-C - Theoretical element allocation - I

The theoretical element number allocation shall be as follows (For EGSE subsystem, the allocation is done at element level as far as each element could be provided by different companies) :

Subsystem	Theoretical element number
- G	[000]
- A	[001-107]
- "A_PSEUDO"	[109]
- C	[130-137] U [140-147]
- "C_PSEUDO"	[149]
- D	[150-158] U [160-189]
- "D_PSEUDO"	[159]
- H (HIFI)	[190-237]
- H (HFI)	[240-287]
- "H_PSEUDO"	[289]
- K	[300-317]
- "K_PSEUDO"	[319]
- L	[320-367]
- "L_PSEUDO"	[369]
- M	[370-377]
- "M_PSEUDO"	[379]
- P	[380-427]

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 86/158

- "P_PSEUDO"	[429]
- R	[430-477]
- "R_PSEUDO"	[479]
- S (SPIRE)	[480-527]
- S (SPR cooler)	[530-557]
- "S_PSEUDO"	[559]
- T	[600-747] U [750-897]
- "T_PSEUDO"	[899]
- V	[560-562]
- "V_PSEUDO"	[564]
- W	[565-582]
- "W_PSEUDO"	[584]
- X	[990-997]
- « X_PSEUDO »	[998]
- Y (ACMS SCOE)	[920-939]
- Y (CCS)	[940-941]
- Y (PLM SCOE)	[942-943]
- Y (CDMU DFE)	[944-945]
- Y (TM/TC DFE)	[946-947]
- Y (CDMU SCOE)	[948-949]
- Y (TT&C SCOE)	[950-951]
- Y (LPS)	[952-953]
- Y (SAS)	[954-955]
- Y (BATSIM)	[956-957]
- Y (CRYO SCOE)	[958-959]
- Y (CRYO COTE)	[960-961]
- Y (HIFI)	[962-963]
- Y (PACS)	[964-965]
- Y (SPIRE)	[966-967]
- Y (HFI)	[968-969]
- Y (LFI)	[970-971]
- Y (Sorption coel.)	[972-973]
- "Y_PSEUDO"	[989]
-	[990-998] reserved for X subsystem

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 87/158

– Z (PSEUDO) [999]

5.4 Position

NMCVT-7520-C Position allocation - |

The position allocation shall be as follows per subsystem (For EGSE subsystem, the allocation is done at element level as far as each element could be provided by different companies) :

Subsystem	Theoretical element position
– G	[000]
– A	[001-107]
– "A_PSEUDO"	[109]
– C	[130-137] U [140-147]
– "C_PSEUDO"	[149]
– D	[150-158] U [160-189]
– "D_PSEUDO"	[159]
– H (HIFI)	[190-237]
– H (HFI)	[240-287]
– "H_PSEUDO"	[289]
– K	[300-317]
– "K_PSEUDO"	[319]
– L	[320-367]
– "L_PSEUDO"	[369]
– M	[370-377]
– "M_PSEUDO"	[379]
– P	[380-427]
– "P_PSEUDO"	[429]
– R	[430-477]
– "R_PSEUDO"	[479]
– S (SPIRE)	[480-527]
– S (SPR cooler)	[530-557]
– "S_PSEUDO"	[559]
– T	[600-747] U [750-897]
– "T_PSEUDO"	[899]

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 88/158

- V [560-562]
- "V_PSEUDO" [564]
- W [565-582]
- "W_PSEUDO" [584]
- X [990-997]
- « X_PSEUDO » [998]
- Y (ACMS SCOE) [920-939]
- Y (CCS) [940-941]
- Y (PLM SCOE) [942-943]
- Y (CDMU DFE) [944-945]
- Y (TM/TC DFE) [946-947]
- Y (CDMU SCOE) [948-949]
- Y (TT&C SCOE) [950-951]
- Y (LPS) [952-953]
- Y (SAS) [954-955]
- Y (BATSIM) [956-957]
- Y (CRYO SCOE) [958-959]
- Y (CRYO COTE) [960-961]
- Y (HIFI) [962-963]
- Y (PACS) [964-965]
- Y (SPIRE) [966-967]
- Y (HFI) [968-969]
- Y (LFI) [970-971]
- Y (Sorption cooel.) [972-973]
- "Y_PSEUDO" [989]
- [990-998] reserved for X subsystem
- "PSEUDO" [999]

5.5 Dynamic UDC allocation

The dynamic user defined constants is the way offered by SCOS to defined user parameters which can be read or write from the real time environment including from TOPE language. Those dynamic UDC shall be defined in a unique packet (so a generic one). In order that the SCOS merging can be done between for instance SVM and PLM to build PFM, allocation shall be foreseen. Notes :

- 1 overlapping of UDC inside the UDC packet is forbidden,
- 2 the UDC can only be numerical (integer or real).

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 89/158

NMCVT-7530-C UDC allocation - I

The dynamic user defined constant (dynamic UDC) allocation inside the UDC packet shall be as follows :

Subsystem	Byte position inside the UDC packet
- System	[0000-0099]
- SVM	[0100,0199]
- PLM	[0200,0299]
- HIFI	[0300-0399]
- HFI	[0300-0399]
- PACS	[0400-0499]
- LFI	[0400-0499]
- SPIRE	[0500-0599]
- Sorption cooler	[0500-0599]
- SVM	[0600-1023]

Note : HPSDB will allow to generate automatically the UDC allocation in case the same element is used several times in a subsystem (nominal / redundant, ...). The user will have to give a "delta" for each occurrence of the element inside the subsystem which will be added to the element UDC allocation (refer to NMCVT-7805-C). HPSDB will also checks that all (including the ones automatically generated) the UDC allocations are inside the allocated range and there are not any overlapping.

5.6 On-board parameter identifier allocation

The on-board parameter identifier shall be unique for a model (due to SCOS). As a consequence allocation shall be foreseen.

The allocation is done per software (allocation per slot of 8K) and subsystem (allocation per 0.25 K inside the software allocation).

NMCVT-7540-C On-board parameter identifier - I

The on-board parameter identifier allocation shall be done as follows :

Software	Allocation	Subsystem	Allocation
CDMS (except S/W)	[00000-08191]	D	[00000-00255] [0000-00FF]
		R	[00256-00511] [0100-01FF]
		T	[00512-00767] [0200-02FF]
		W	[00768-01023] [0300-03FF]
		K	[01024-01279] [0400-04FF]

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 90/158

		M	[01280-01535] [0500-05FF]
		V	[01536-01791] [0600-06FF]
		Spare	[01792-08191] [0700-1FFF]
CDMS (Software)	[08192-16383]	D (S/W)	[08192-16383] [2000-3FFF]
ACMS (except S/W)	[16384-24575]	C	[16384-16639] [4000-40FF]
		A	[16640-16895] [4100-41FF]
		Spare	[16896-24575] [4200-5FFF]
ACMS (Software)	[24576-32767]	A (S/W)	[24576-32767] [6000-7FFF]
HIFI	[32768-40959]	H (Herschel)	[32768-40959] [8000-9FFF]
HFI	[32768-40959]	H (Planck)	[32768-40959] [8000-9FFF]
PACS	[40960-49151]	P (Herschel)	[40960-49151] [A000-BFFF]
LFI	[40960-49151]	L (Planck)	[40960-49151] [A000-BFFF]
SPIRE	[49152-57343]	S (Herschel)	[49152-57343] [C000-DFFF]
Sorption cooler	[49152-57343]	S (Planck)	[49152-57343] [C000-DFFF]
Spare	[57344-65534]	Spare	[57344-65534] [E000-FFFF]
USD	[65535-65535]	reserved	[65535-65535] [FFFF-FFFF]

Note : HPSDB will allow to generate automatically the on-board identifiers in case the same element is used several times in a subsystem (nominal / redundant, ...). The user will have to give a "delta" for each occurrence of the element inside the subsystem which will be added to the element on-board identifier (refer to NMCVT-7800-C). HPSDB will also checks that all (including the ones automatically generated) the on-board identifiers are inside the allocated range and there are not any duplication.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 91/158

6. ATTRIBUTES REQUIREMENTS

6.1 Application ID

NMCVT-7599-C	-	Application identifier allocation	-	I
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The application identifiers allocation shall be as follows per subsystem :

According to RD3 annexe 3.

6.2 Short description

NMCVT-7600-C	-	Short Description	-	I
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The short description shall :

- Consist of characters contained in the union of the following sets:
 - § Upper case [A-Z] and lower case [a-z] characters of english alphabet
 - § Numerical digits [0-9]
 - § The special characters: " " (space), "+" (Plus), "-" (minus) and "_" (underscore)
- Have mainingful content for a human reader,
- Understandable abbreviations and acronyms,
- Not be left empty.
- Be as readable as possible,
- Have an understandable abbreviations and acronyms,
- Not be left empty for short description.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 92/158

6.2.1 Short description

NMCVT-7610-C - Short description - I

At subsystem level the short description shall be instantiated with the position code (IDCH01F - refer NMCVT-4081d-C).

6.2.2 Long description

NMCVT-7620-C - Deleted

6.3 Unit

NMCVT-7630-C - Unit symbol - I

The unit symbol shall :

- Consist of 4 letters of upper and lower case English alphabet A-Z, digits 0-9, slash, plus and minus signs,
- Not contain a quote, double quote, accent, comma, colon, full-stop, 'space', 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.

Note :

- the customisation limits to one symbol per unit (no check by HPSDB tool)
- refer to the annexes table "units customisation"

6.4 Software parameter identifier

NMCVT-7800-C - Software parameter identifier - I

At subsystem level the on-board parameter identifier shall be instantiated with the delta associated to the occurrences by adding this delta to the corresponding element on-board parameter identifier.

6.5 UDC allocation

NMCVT-7805-C - UDC allocation - I

At subsystem level the UDC allocation shall be instantiated with the delta associated to the occurrences by adding this delta to the corresponding element UDC allocation.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 93/158

6.6 Group for constant

NMCVT-7810-C - Constant group - |

The following constant groups are identified :

Constant group	Label
FDD-A	Flight Dynamics data - Alignement
FDD-C	Flight Dynamics data - Curves
FDD-P	Flight Dynamics data - Performances
BSW	Basic software
ASW-ACMS	Application software ACMS
ASW-CDMS	Application software CDMS
ASW-STR	Application software STR
ASW-HIFI	Application software HIFI
ASW-PACS	Application software PACS
ASW-SPIRE	Application software SPIRE
ASW-HFI	Application software HIFI
ASW-LFI	Application software LFI

Note : the split between Herschel and Planck specific values will be done at real model.

6.7 Item types

NMCVT-7820-C - Item types - |

It shall be possible to define the following items types as Char(32) :

- "TM packet standard",
- "TM packet PSICD",
- "TM packet",
- "TM packet SCOS archiving",
- "TM structure",
- "TM packet group",
- "TC packet header",
- "TC packet",
- "TC structure",
- "TC packet group",

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 94/158

- "Command sequence",
- "Verification stage",
- "1553 status word",
- "1553 command word",
- "1553 message",
- "1553 acquisition command link",
- "1553 structure",
- "1553 message group",
- "OBDH interrogation",
- "OBDH acquisition command link",
- "OBDH interrogation group",
- "Parameter",
- "Parameter group",
- "Parameter set",
- "Parameter value set",
- "Parameter range set",
- "parameter structure",
- "Curve",
- "Alphanumeric display",
- "Graphic display",
- "Scrolling display",
- "Variable SCOS packet display",
- "Constant",
- "Reason of change",
- "File".

6.8 Model types

NMCVT-7830-C - Model types - I

It shall be possible to define the following model types as Char(8):

- "FUMO",
- "STM"
- "CQM",
- "EQM",

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 95/158

- "PFM"
- "SPARE"

6.9 Display format

NMCVT-7840-C - Display format - |

For unsigned integer display / input the radix shall be limited to the following list :

- "D" (for decimal),
- "H" (for Hexadecimal),
- "B" (for Binary).

Even if supported by SCOS, "O" (for octal) is not allowed.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 97/158

7. SPECIFIC INSTRUMENT REQUIREMENTS

This chapter group all the requirements (in addition to the ones marked as "NMCVT_xxxx_instruments_C" in the previous chapters) in order the smooth transition can be ensured. Those requirements are applicable for instruments only and do not apply to CCS and HPSDB (except for reloading algorithm)

Those requirements were dispatched in two faxes from ASP (H-P-ASP-LT-2607 dated 27/01/03, H-P-ASP-LT-2942 dated 04/04/03 and H-P-ASP-LT-3338 dated 02/07/03).

NMCVT-9000-Instruments-C	-	Curve identifier	-	
--------------------------	---	------------------	---	--

Refer to NMCVT-5354-instruments-C".

Note1 : According to RD2, instruments SCOS support curve identifier of format NUMBER(4) unique per type of curve (numerical or digital). According to requirements NMCVT-53xx-C curve identifier are of types IDCH06F or IDCH08F or IDCH10F but all of them include an IDCH03F field (unique per element) which will be filled with instrument curve identifier.

NMCVT-9005-Instruments-C	-	Curve short description	-	
--------------------------	---	-------------------------	---	--

Curve short description shall be limited to char(23)

Note : this is due to the fact that common curves can be shared by TC and TM parameters inside HPSDB and the shorter length is Char(24) for TC curve and the last character is reserved by HPSDB.

NMCVT-9010-Instruments-C	-	Range set identifier	-	
--------------------------	---	----------------------	---	--

Refer to NMCVT-5245-instruments-C".

Note1 : According to RD2, instruments SCOS support range set identifier of format NUMBER(4) unique. According to requirements NMCVT-5245-C up to NMCVT-5280-C range set identifiers are of types IDCH04F or IDCH08F but all of them include an IDCH03F (unique per element) field which will be filled with instrument range set identifier.

NMCVT-9020-Instruments-C	-	Command verification stage identifier	-	
--------------------------	---	---------------------------------------	---	--

Refer to NMCVT-4677-instruments-C".

Note1 : According to RD2, instruments SCOS support command verification stage identifier of format NUMBER(5) unique. According to requirements NMCVT-4677-C up to NMCVT-4688-C command verification stage identifiers are of types IDIN04F or IDIN09F but all of them include an IDIN04F (unique per element) field which will be filled with instrument command verification stage identifier.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 98/158

NMCVT-9030-Instruments-C	-	Dynamic UDC allocation	-	
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Refer to NMCVT-7530-C" and NMCVT-7805-C.

Note1 : The dynamic UDC (User Defined Constants) shall be allocated to a dedicated SCOS packet (TBD SPID for instrument SCOS, TBD SPID for CCS SCOS). This packet is unique. As consequence in order to prevent overlapping at integration time, allocation shall be foreseen.

NMCVT-9040-Instruments-C	-	Constant packet length	-	
--------------------------	---	------------------------	---	--

The length of the 'constant packet' shall be set to 1023.

Note1 : All the levels will generate the same archiving files format, so it will be possible to apply "smooth transition" on archiving too (warning : reserved SPID could be different between CCS and instrument SCOS) : possibility at system level to access instruments to instrument and module levels archiving for 'constant packet'. Drawback : a lot of disk space is lost mainly at instrument level.

NMCVT-9050-Instruments-C	-	SPID and TPSD	-	
--------------------------	---	---------------	---	--

In case the SCOS packet shall be interpreted as a variable packet, in table "PID" (Packet identification), the "PID_SPID"(SCOS Packet Identifier") and the PID_TPSD (Telemetry Packet Structure Definition) shall be such that : "PID_SPID" = "PID_TPSD"

Note1 : This facilitate the mapping between HPSDB and SCOS bridge files. Different SCOS packets (SPID) will no more be able to address the same variable packet packet structure definition (VPSD).

NMCVT-9060-Instruments-C	-	PCF_WIDTH	-	
--------------------------	---	-----------	---	--

[PCF_WIDTH shall be forced to Null.](#)

Notes : The role of "PCF_WIDTH" and "VPD_OFFSET" are complementary and not redundant.

NMCVT-9070-Instruments-C	-		-	
--------------------------	---	--	---	--

In order to support requirement NMCVT-7610, the last character of the different description shall be reserved to differentiate elements in a list (example "N" or "R" for "Nominal" and "Redundant", "1", "2", "3, ... for a list, "A", "B", "C" ... for a list ...).

Note1 : at reloading time , the description of any items except the last character will be associated to the item description at element level, the last character will be associated with the position.

NMCVT-9080-Instruments -C	-	On-board parameter identifier	-	
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Refer to NMCVT-7540-C" and NMCVT-7800-C.

Note1 : On-board parameter identifier is unique for a model.

NMCVT-9090-Instruments-C	-	Unsigned value radix	-	
--------------------------	---	----------------------	---	--

Octal radix for unsigned value shall not be allowed.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 99/158

8. SPECIFIC ESOC REQUIREMENTS

This chapter is not applicable to HPSDB tool, but only to the user (no control perform by HPSDB).

In addition to the category flag facility (an item can be visible or not to any kind of user including Operations) ESOC has required user to reserved for each item a range of identifiers for their own usage (category flag to be set to operation only). As this request was made late, general rules has been defined however there could be some deviation due to the fact that data were already present inside the data base.

NMCVT-9100-C	-	ESOC reserved range of item identifier 1	-	
--------------	---	--	---	--

User shall reserve for each item identifier a range for ESOC needs as defined in annex 4.

NMCVT-9110-C	-	ESOC reserved range of item identifier 2	-	
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In case the requirement NMCVT-9100-C cannot be satisfied, the user shall provide other range allocation.

Note: annex 5 (reflecting the effective reserved item identifiers range for ESOC needs) will be updated accordingly

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 100/158

9. SPECIFIC ESOC REQUIREMENTS

This chapter is not applicable to HPSDB tool, but only to the user defining global variable inside synthetic parameters (no control perform by HPSDB).

While there is no constraint on local variable (GVAR...) inside synthetic parameter expression, there is a unicity constraint for global variable (GVAR...).

NMCVT-9200-C - Global variable identifier - I

The global variable identifier referenced in a synthetic parameter expression shall be unique and according to the following format:- "GVAR"

- Identifier of the synthetic parameter,
- "_"
- Order in the range [00..99].

Example: "GVARAM023100_00", "GVARAM023100_55", "GVARAM023100_99"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 101/158

10. ANNEX 1 : COMPLIANCE MATRIX WITH RD1

RD1	Naming convention	Compliance	Remarks
<p>General Conventions</p> <p>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 RD4
<p>A4.1 Field width constraints</p> <p>See AD-8.</p>		PC	Curve identifiers, Command verification stage identifiers and range set identifiers are not compliant. All others identifiers are compliant.
<p>A4.2 Descriptions</p> <p>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; 	NMCVT-7600-C	C	Some additional restrictions have been introduced due the test language (in order there is no risk that a character is interpreted by the language). As a consequence plus, minus, dot and dash characters are not allowed.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 102/158

RD1	Naming convention	Compliance	Remarks
<ul style="list-style-type: none"> • Be as readable as possible; • Have understandable abbreviations and acronyms; • Not be left empty. 			
<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-4081a-C	C	<p>The following subsystems have been added :</p> <p>"C" for RCS "K" for Herschel CRYO "Y" for EGSE "Z" for pseudo (due to HPSDB) "G" for generic data (due to HPSDB)</p>
A + B for Attitude and Orbit Control Subsystem (AOCS)	NMCVT-7500-C	PC	<p>A : compliant B : not compliant</p>
D + E for On-Board Data Handling Subsystem (CDMS)	NMCVT-7500-C	PC	<p>D : compliant E : Not compliant</p>
J for system	NMCVT-7500-C	C	Spare, System is Z
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 clarified
V for Visual Monitor Camera	NMCVT-7500-C	C	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 103/158

RD1	Naming convention	Compliance	Remarks
F for Frame- structure etc.	NMCVT-7500-C	C	Spare.
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
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, 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) :

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 104/158

RD1	Naming convention	Compliance	Remarks
			<ul style="list-style-type: none"> Ø "Z" for system parameters Ø "U" for user parameters Ø "C" is not for constants (but for TC) Ø "K" for constant Ø The "type of data" is the sixth character instead of eighth.
Parameter identifier (on-board) PCF_PID N10	NMCVT-7800-C	C	Allocation are provided (NMCVT-7530-C)
Monitoring numerical curve identifier CAF_NUMBR N4	NMCVT-5370-C	NC	CHR(10) instead of N4 Change request : H-P-ASPI-CR-0245
monitoring texte curve identifier TXF_NUMBR N4	NMCVT-5370-C	NC	CHR(10) instead of N4 Change request : H-P-ASPI-CR-0245
monitor polynomial curve identifier MCF_IDENT N4	NMCVT-5370-C	NC	CHR(10) instead of N4 Change request : H-P-ASPI-CR-0245
Monitor packet identifier (fixed length) PID_SPID N10	NMCVT-4380-C	C	In fact limited to 999999999.
Monitor packet identifier (variable length) PID_TPSD N10	NMCVT-4380-C	C	Force to be equal to PID_SPID
Alphanumeric display DPF_NUMBE Char8	NMCVT-6100-C	C	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 105/158

RD1	Naming convention	Compliance	Remarks
A (AM - <i>Displays created to feed data for a Mimic shall use Function Specifier AM</i>)			
Grphic display identifier GPF_NUMBE Char8 G	NMCVT-6110-C	C	
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 generic 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		C	Formal parameter identifier is IDCH08F unique at command

Reference : Fichier : Naming_convention_RS.doc du
23/04/2007 09:58

Reference du modèle : M023-3

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 106/158

RD1	Naming convention	Compliance	Remarks
Char8 F			sequence level.
Verification stage identifier CVS_ID N5		NC	N(9) instead of N(4) Change request : H-P-ASPI-CR-0245
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	CHR(10) instead of N4 Change request : H-P-ASPI-CR-0245
Command textual curve PAF_NUMBR N4	NMCVT-5370-C	NC	CHR(10) instead of N4 Change request : H-P-ASPI-CR-0245
Command sequence parameter range check PRF_NUMBR N4		NC	CHR(8) instead of N4 Change request : H-P-ASPI-CR-0245
N10 => Ten digit number N such that $0 < N < 2^{32} - 1$		PC	[000000000-999999999]
N5 => Five digit number 00000 - 32767		NC	It has been required to extend them.
N4 => Four digit number 0001 - 9999		NC	It has been required to extend

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 107/158

RD1	Naming convention	Compliance	Remarks
			them.
Char8 => Eight Character alphanumeric identifier intended for Human use.	NMCVT-0110-C	C	
N4 : 1 000 - 1 999 HIFI HFI		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations
N4 : 2 000 - 2 999 PACS LFI		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations
N4 : 3 000 - 3 999 SPIRE Sorption Cooler Subsystem		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations
N4 : 4 000 - 8 999 Alcatel		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations
N4 : 9 000 - 9 999 ESOC		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations
N5 : 00 001- 02 999 HIFI HFI		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 108/158

RD1	Naming convention	Compliance	Remarks
N5 : 03 000- 05 999 PACS LFI		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations
N5 : 06 000 - 08 999 SPIRE Sorption Cooler Subsystem		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations
N5 : 09 000 - 19 999 Alcatel		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations
N5 : 20 000 - 29 999 ESOC		NC	It has been required to extend them. Non-duplication guaranty by HPSDB instantiations
N10 : 10 000 000 -19 999 999 HIFI HFI		NC	Non-duplication guaranty by HPSDB instantiations
N10 : 20 000 000 -29 999 999 PACS LFI		NC	Non-duplication guaranty by HPSDB instantiations
N10 : 30 000 000 -39 999 999 SPIRE Sorption Cooler Subsystem		NC	Non-duplication guaranty by HPSDB instantiations
40 000 000 - 79 999 999 Alcatel		NC	Non-duplication guaranty by HPSDB instantiations
80 000 000 - 99 999 999 ESOC		NC	Non-duplication guaranty by HPSDB instantiations

Reference : Fichier : Naming_convention_RS.doc du
23/04/2007 09:58

Reference du modele : M023-3

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 109/158

RD1	Naming convention	Compliance	Remarks
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.	NMCVT-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 1000003 could be defined by HIFI	NMCVT-4380-C	NC	Non-duplication guaranty by HPSDB instantiations
A4.5 Command Master Function Number: Example: AC0001 (Command number for the AOCS subsystem)	NMCVT-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.	NMCVT-5130-C	C	Warning : the example looks wrong : 6 characters and no "type of parameter".
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.	NMCVT-5130-C	C	Warning : the example looks wrong : 6 characters.

Reference : Fichier : Naming_convention_RS.doc du
23/04/2007 09:58

Reference du modèle : M023-3

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 110/158

RD1	Naming convention	Compliance	Remarks
Example: AM1234			
<p>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++ compiler.) 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.</p>	NMCVT-5130-C	PC	<p>The second character ("D") is supported the third one ("S" or "H" or "D") is not supported. Warning : the example looks wrong : 6 characters.</p>
<p>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)</p>	NMCVT-5130-C	PC	<p>Warning : the example looks wrong : 6 characters. The second letter is not a "C" but a "K" ("C" is reserved for TC packet)</p>
<p>A4.7.1 Alphanumeric Displays (AND): AND naming shall use the subsystem identifier followed by the letter A (e.g. AA1234)</p>	NMCVT-6100-C	C	Warning : the example looks wrong : 6 characters.
<p>A4.7.2 Graphical Displays (GRD): GRD naming shall use the subsystem identifier followed by the letter G (e.g. AG1234)</p>	NMCVT-6110-C	C	Warning : the example looks wrong : 6 characters.
<p>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).</p>	NMCVT-6120-C	C	Warning : the example looks wrong : 6 characters.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 111/158

RD1	Naming convention	Compliance	Remarks
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 SOR for Sorption Cooler System		NC	Not covered by HPSDB tool
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:		NC	Not covered by HPSDB tool

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 112/158

RD1	Naming convention	Compliance	Remarks
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)			
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 clarified.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 113/158

11. ANNEX 2 - UNITS CUSTOMISATION

The following table is a customisation for Herschel / Planck project applicable to PLUTO.

This table applies only for items used by SCOS (parameters, curves, ...) and HPSDB application will check it, but it does not applies for items which are not used by SCOS (constants (flight dynamics data, ...), ...).

Quantity	SI unit	Definition	HPSD Symbol	Supported multiples and submultiples of the unit
length	Meter	base unit	"m"	"km" "cm" "mm" "um" "nm" "pm"
	Astronomical unit	1 AU = 149597.870 • 10 ⁶ m	"AU"	
area	m ²	1 m ² = 1 m • m	"m2"	"km2" "dm2" "cm2" "mm2"
volume	m ³	1 m ³ = 1 m • m • m	"m3"	"dm3" "cm3" "mm3"
	Liter	1 l = 1 dm ³	"l"	"hl" "cl" "ml"
mass	Kilogram	base unit	"kg"	"g" "mg" "ug"
time	Second	base unit	"s"	"ms" "us" "ns"
	Minute	1 min = 60s	"min"	
	Hour	1 h = 60 min	"h"	
	Day	1 d = 24 h	"d"	
electric current	Ampere	base unit	"A"	"kA" "mA" "uA" "nA" "pA"
temperature	Kelvin	base unit	"K"	
	Degree Celsius	1°C = 1 K + 273.15	"degC"	
plane angle	Radian	supplementary unit = m/m	"rad"	"mrad" "urad"
	Degree	1° = •/180 rad	"deg"	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 114/158

Quantity	SI unit	Definition	HPSD Symbol	Supported multiples and submultiples of the unit
solid angle	Steradian	supplementary unit = m ² /m ²	"sr"	
frequency	Hertz	1 Hz = 1 s ⁻¹	"Hz"	"THz" "GHz" "MHz" "kHz"
rotational freq.	s ⁻¹		"1/s"	"rpm"
force	Newton	1 N = 1 kg m/s ²	"N"	"MN" "kN" "mN" "uN"
pressure	Pascal	1 Pa = 1 N/m ²	"Pa"	"GPa" "MPa" "kPa" "mPa" "uPa"
	Bar	1 bar = 10 ⁵ Pa	"bar"	"mbar" "ubar"
energy, work, heat	Joule	1 J = 1 N m	"J"	"TJ" "GJ" "MJ" "kJ" "mJ"
torque	Nm	1 Nm = 1 N m = 1 J	"Nm"	"MNm" "kNm" "mNm" "uNm"
power	Watt	1W = 1 J/s	"W"	"GW" "MW" "kW" "mW" "uW"
electric charge	Coulomb	1 C = 1 A s	"C"	"MC" "kC" "mC" "uC" "nC" "pC"
	Ah	1 Ah = 3.6 kC	"Ah"	"mAh" "uAh"
electric potential	Volt	1 V = 1 J/C	"V"	"MV" "kV" "mV" "uV"
electrical capacitance	Farad	1 F = 1 C/V	"F"	"mF" "uF" "nF" "pF"
electrical resistance	Ohm •	1 W = 1 V/A	"Ohm"	"GOhm" "MOhm" "kOhm" "mOhm"
electrical conductance	Siemens	1 S = 1 W ⁻¹	"1S"	"kS" "mS" "uS"
magnetic flux	Weber	1 Wb = 1 V s	"Wb"	"mWb"
magnetic induction	Tesla	1 T = 1 Wb/m ²	"T"	"mT" "uT" "nT"
inductance	Henry	1 H = 1 Wb/A	"H"	"mH" "uH" "nH" "pH"
velocity	m/s		"m/s"	
angular velocity	Rad/s		"rd/s"	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 115/158

Quantity	SI unit	Definition	HPSD Symbol	Supported multiples and submultiples of the unit
	Deg/s		"dg/s"	"dg/m" "dg/h"
acceleration	m/s ²		"m/s2"	
linear mass density	Kg/m		"kg/m"	"mg/m"
momentum	kg m/s		"Ns"	
angular momentum	kg m ² /s		"Nms"	
moment of inertia	kg m ²		"kgm2"	
viscosity	Pa s		"Pas"	"mPas"
volume flow rate	m ³ /s		"m3/s"	"l/s"
surface tension	N/m		"N/m"	"mN/m"
linear expansion coefficient	K ⁻¹		"1/K"	
heat capacity	J/K		"J/K"	"kJ/K"
charge density	C/m ³		"C/m3"	
surface density of charge	C/m ²		"C/m2"	
electric field strength	V/m		"V/m"	"MV/m" "kV/m" "mV/m" "uV/m"
permittivity	F/m		"F/m"	"uF/m" "nF/m" "pF/m"
electric polarization	C/m ²		"C/m2"	
electric dipole moment	C m		"Cm"	
current density	A/m ²		"A/m2"	
linear current density	A/m		"A/m"	"A/mm"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 116/158

<u>Quantity</u>	SI unit	Definition	HPSP Symbol	Supported multiples and submultiples of the unit
magnetic vector potential	Wb/m		"Wb/m"	
permeability	H/m		"H/m"	"uH/m" "nH/m"
electromagnetic moment	A m ²		"A m2"	
magnetization	A/m		"A/m"	"A/mm"
magnetic dipole moment	Wb m		"Wb m"	
conductivity	S/m		"S/m"	"MS/m" "kS/m"
reluctance	H ⁻¹		"1/H"	
radiant intensity	W/sr		"W/sr"	
irradiance	W/m ²		"W/m2"	
mechanical impedance	N s/m		"Ns/m"	
<u>transmission rate</u>	bps		"bps"	"kbps" "Mbps" "Gbps"
<u>signal level</u>	dbW		"dbW"	"dbmW"
<u>Gain</u>	dB	Base unit	"dB"	

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 117/158

<u>Quantity</u>	SI unit	Definition	HPSD Symbol	Supported multiples and submultiples of the unit
<u>%</u>	%		" %"	

Remarks :

- Suppression of some non SI units (in order to limit potential conversion errors), however some of them are kept because frequently used (litre, deg°C, degree, bar, ...) or as multiple or sub-multiple,
- Suppression of useless units (referring to temperature differences, moles, candela, ...)

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 118/158

12. ANNEX 3 - SUMMARY

12.1 Configuration

NMCVT-4030-C

Theoretical element															
IDCH11M															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4040-C

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

NMCVT-4050-C

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

NMCVT-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 : 23/04/2007

ISSUE : 03 Page : 119/158

NMCVT-4080-C

Theoretical subsystem															
S/S type															
IDCH01F	IDIN03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4081a-C

S/S type															
IDCH01F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4081b-C

S/S type number															
IDIN02F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4081c-C

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

NMCVT-4081d-C

Pos code															
IDCH01 M															

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 120/158

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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NMCVT-4081e-C

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

NMCVT-4085-C

Real subsystem															
Theoretical subsystem				Real subsystem number											
S/S type															
IDCH01F	IDIN03F			IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4086-C

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

NMCVT-4100-C

Theoretical model															
IDCH10M															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4120-C

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 121/158

Real model															
Theoretical model										Real model number					
IDCH10F										IDIN02F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4130-C

Real model nb.															
IDIN02F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

12.2 Telemetry packets

NMCVT-4305-C

Generic TM packet standard																
Generic Element number								IDIN04F				Generic Position				
0	0	0	T	M	S	D	IDIN04F				0	0	0			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-4311-C

Generic TM packet group																
Generic Element number								IDIN04F				Generic Position				
0	0	0	T	M	G	R	IDIN04F				0	0	0			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-4320-C

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 122/158

Generic TM packet PSICD															
Generic Element number							type			subtype			Generic Position		
0	0	0	T	M	P	S	IDIN03F			IDIN03F			0	0	0
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4332-C

Generic TM packet															
Generic Element number										Generic Position					
IDIN03F			T	M	P	K	A	IDIN03F			0	0	0		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4334-C

Generic TM packet SCOS archiving																
Generic s/s number						Generic position										
0	7	IDIN04F				0	0	0								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-4336-C

Generic TPCF															
Gen. s/s						Generic position									
G	IDCH08F				0	0	0								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4337-C

Generic TM structure															

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 123/158

Generic element number											Generic position				
0	0	0	T	M	S	T	IDIN04F				0	0	0		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4340-C

Element TM packet																
Element number																
IDIN03F			T	M	P	K	A	IDIN03F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-4352-C

Element TM packet SCOS archiving															
IDIN04F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4353-C

Element TPCF															
IDCH08F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4356-C

Element TM packet standard															
Element number															
IDIN03F			T	M	S	D	IDIN04F								
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 : 23/04/2007

ISSUE : 03 Page : 124/158

NMCVT-4358-C

Element TM packet PSICD															
Element number							Type			Subtype					
IDIN03F			T	M	P	S	IDIN03F			IDIN03F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4360-C

Element TM structure															
Element number															
IDIN03F			T	M	S	T	IDIN04F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4374-C

Element TM packet group															
Element number															
IDIN03F			T	M	G	R	IDIN04F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4380-C

Subsystem TM packet															
Element TM packet										Position					
Element number															
IDIN03F			T	M	P	K	A	IDIN03F			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 : 23/04/2007

ISSUE : 03 Page : 125/158

NMCVT-4392-C

Subsystem TM packet SCOS archiving															
Subsystem number		Element TM packet SCOS archiving				Position									
IDIN02F		IDIN04F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4393-C

Subsystem TPCF															
S/S type	Element TPCF								Position						
	IDCH08F								IDIN03F						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4394-C

Subsystem TM packet standard															
Element TM packet standard												Position			
Element number							IDIN04F					IDIN03F			
IDIN03F			T	M	S	D	IDIN04F					IDIN03F			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4396-C

Subsystem TM packet PSICD															
Element TM packet PSICD														Position	
Element number				Type				Subtype				Position			
IDIN03F				T	M	P	S	IDIN03F				IDIN03F			

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 126/158

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

NMCVT-4400-C

Subsystem TM structure															
Element TM structure											Position				
Element number															
IDIN03F			T	M	S	T	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4420-C

Subsystem TM packet group															
Element TM packet group											Position				
Element number															
IDIN03F			T	M	G	R	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4438-C

Model TM item

As corresponding subsystem TM item.

NMCVT-4440-C

Subsystem TM packet definition																
S/S pseudo element number											Subsystem pseudo position					
IDIN03F			T	M	P	K	A	IDIN03F				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 : 23/04/2007

ISSUE : 03 Page : 127/158

NMCVT-4441-C

Subsystem TM packet standard definition															
S/S pseudo element number							IDIN04F				Subsystem pseudo position				
IDIN03F			T	M	S	D	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4442-C

Subsystem TM packet PSICD definition															
S/S pseudo element number							IDIN03F				IDIN03F			Subsystem pseudo position	
IDIN03F			T	M	P	S	IDIN03F				IDIN03F			IDIN03F	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4445-C

Subsystem TM packet SCOS archiving definition															
Subsystem number						subsystem pseudo position									
IDIN02F		IDIN04F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4446-C

Subsystem TPCF definition															
S/S type										Subsystem pseudo position					
		IDCH08F								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 : 23/04/2007

ISSUE : 03 Page : 128/158

NMCVT-4450-C

Subsystem TM structure definition															
S/S pseudo element number											Subsystem pseudo position				
IDIN03F			T	M	S	T	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4455-C

Subsystem TM packet group definition															
S/S pseudo element number											Subsystem pseudo position				
IDIN03F			T	M	G	R	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4461-C

Model TM item definition

As corresponding subsystem TM item definition replacing :

- . "subsystem pseudo " per "system pseudo "
- . "subsystem" per "pseudo subsystem"

12.3 Telecommand packets

NMCVT-4505-C

Generic TC packet header															
Gen S/S	Function					Generic position									
G	X	IDCH03F				0	0	0							
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 : 23/04/2007

ISSUE : 03 Page : 129/158

NMCVT-4511-C

Generic TC packet																
Gen S/S	Function	Generic position														
G	C	IDCH03F						0	0	0						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-4513-C

Generic TC structure															
Gen Element number							Generic Position								
0	0	0	T	C	S	T	IDIN04F				0	0	0		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4515-C

Generic TC packet group															
Generic element number							Generic Position								
0	0	0	T	C	G	R	IDIN04F				0	0	0		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4533-C

Element TC packet header															
Function															
X	IDCH03F														
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 : 23/04/2007

ISSUE : 03 Page : 130/158

NMCVT-4540-C

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

NMCVT-4560-C

Element TC structure															
Element number															
IDIN03F			T	C	S	T	IDIN04F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4574-C

Element TC packet group															
Element number															
IDIN03F			T	C	G	R	IDIN04F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4577-C

Subsystem TC packet header															
S/S type	Element TC packet header					Position									
	Function														
IDCH01F	X	IDCH03F				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 : 23/04/2007

ISSUE : 03 Page : 131/158

NMCVT-4580-C

Subsystem TC packet																	
S/S type	Element TC packet					Position											
	Function																
IDCH01F	C	IDCH03F				IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		

NMCVT-4600-C

Subsystem TC structure															
Element TC structure											Position				
Element number															
IDIN03F			T	C	S	T	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4620-C

Subsystem TC packet group															
Element TC packet group											Position				
Element number															
IDIN03F			T	C	G	R	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4638-C

Model TC item

As corresponding subsystem TC item.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 132/158

NMCVT-4639-C

Subsystem TC packet header definition															
S/S type	Function					S/S pseudo position									
IDCH01F	X	IDCH03F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4640-C

Subsystem TC packet definition															
S/S type	Function					S/S pseudo position									
IDCH01F	C	IDCH03F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4650-C

Subsystem TC structure definition															
S/S pseudo element number												S/S pseudo position			
IDIN03F				T	C	S	T	IDIN04F				IDIN03F			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4655-C

Model TC packet group definition															
S/S pseudo element number												S/S pseudo position			
IDIN03F				T	C	G	R	IDIN04F				IDIN03F			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4656-C

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 133/158

Model TC item definition

As corresponding subsystem TC item definition replacing :

- . "subsystem pseudo " per "system pseudo "
- . "subsystem" per "pseudo subsystem"

12.4 Command sequences

NMCVT-4657-C

Generic command sequence															
Gen S/S	Function				Generic position										
G	S	IDCH03F			0	0	0								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4659-C

Element command sequence															
Function															
S	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4672-C

Subsystem command sequence																
S/S type	Element command sequence			Position												
	Function															
IDCH01F	S	IDCH03F			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 : 23/04/2007

ISSUE : 03 Page : 134/158

NMCVT-4674-C

Model command sequence

As corresponding subsystem command sequence.

NMCVT-4675-C

Subsystem command sequence definition																	
S/S type	Function					S/S pseudo position											
IDCH01F	S	IDCH03F				IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		

NMCVT-4676-C

Model command sequence definition

As corresponding subsystem command sequence definition replacing :

. "subsystem pseudo " per "system pseudo "

. "subsystem" per "pseudo subsystem"

12.5 Command verification

NMCVT-4677-C

Generic command verification stage																
Gen Subst number						Generic position										
0	7	IDIN04F				0	0	0								
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 : 23/04/2007

ISSUE : 03 Page : 135/158

NMCVT-4679-C

Element command verification stage															
IDIN04F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4682-C

Subsystem command verification stage															
Subsystem number		Element command verification stage				position									
IDIN02F		IDIN04F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4684-C

Model command verification stage

As corresponding subsystem command verification stage.

NMCVT-4687-C

Subsystem command verification stage definition															
Subsystem number						S/S pseudo position									
IDIN02F		IDIN04F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-4688-C

Model command verification stage definition

As corresponding subsystem command verification stage definition replacing :

· "subsystem pseudo " per "system pseudo "

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 136/158

"subsystem" per "pseudo subsystem"

12.6 Parameters (except formal parameters)

NMCVT-5104-C

Generic parameter																	
Gen. S/S	Function						Generic position										
G	IDE201F	IDCH03F					0	0	0								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		

NMCVT-5106-C

Generic parameter group																
Generic Element number							IDIN04F					Generic Position				
0	0	0	P	A	G	R						0	0	0		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-5110-C

Element parameter																
Function																
IDE201F	IDCH03F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-5120C

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 137/158

Calibr. set order															
IDINO2F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5126-C

Element parameter group															
Element number															
IDIN03F				P	A	G	R	IDIN04F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5130-C

Subsystem parameter															
S/S type	Element parameter					Position									
	Function														
IDCH01F	IDE201F	IDCH03F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5150-C

Subsystem parameter definition															
S/S	Function					Subsystem pseudo position									
IDCH01F	IDE201F	IDCH03F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5160-C

Subsystem parameter group															
---------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 138/158

element parameter group											Position				
Element number															
IDIN03F			P	A	G	R	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5175-C

Subsystem parameter group definition															
S/S pseudo element number											Subsystem pseudo position				
IDIN03F			P	A	G	R	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5201-C

Generic parameter set															
Gen S/S	Function				Generic Position										
G	T	IDCH03F			0	0	0								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5210-C

Element parameter set															
Function															
T	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5215-C

Subsystem parameter set														
-------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 139/158

S/S type	Element parameter set				Position										
	Function														
IDCH01F	T	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5217-C

Subsystem parameter set definition															
S/S type	Function				Subsystem pseudo position										
IDCH01F	T	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5218-C

Generic parameter value set															
Gen S/S.	Function				Generic Position										
G	V	IDCH03F			0	0	0								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5220-C

Element parameter value set															
Function															
V	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5225-C

Subsystem parameter value set													
-------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 140/158

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

NMCVT-5227-C

Subsystem parameter value set definition															
S/S type	Function					Subsystem pseudo position									
IDCH01F	V	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5245-C

Generic parameter range set															
Gen S/S	Function					Generic Position									
G	R	IDIN03F			0	0	0								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5250-C

Element parameter range set															
Function															
R	IDIN03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5255-C

Subsystem parameter range set															

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 141/158

S/S type		Element parameter range set				Position									
	Function														
IDCH01F	R	IDIN03F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5257-C

S/S type		Subsystem parameter range set definition				Subsystem pseudo position									
	Function														
IDCH01F	R	IDIN03F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5270-C

Model parameter item

As corresponding subsystem parameter item.

NMCVT-5280-C

Model parameter item definition

As corresponding subsystem parameter item definition replacing :

- . "subsystem pseudo " per "system pseudo "
- . "subsystem" per "pseudo subsystem"

12.7 Curves

NMCVT-5301-C

Generic curve															
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Reference Fichier : Naming_convention_RS.doc du
23/04/2007 09:58

Reference du modèle : M023-3

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 142/158

Generic element number															
0	0	0	IDIN03F												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-5321-C

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

NMCVT-5341-C

Subsystem curve																
S/S type	Element curve						Position									
	Element number			IDIN03F			IDIN03F									
IDCH01F	IDIN03F			IDIN03F			IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-5361-C

Model curve

As corresponding subsystem command sequence.

NMCVT-5371

Subsystem curve definition																
S/S type	Element number			S/S pseudo position												
IDCH01F	IDIN03F			IDIN03F				IDIN03F								

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 143/158

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

NMCVT-5381-C

Model curve definition

As corresponding subsystem curve definition replacing :

- . "Subsystem pseudo" by "system pseudo"
- . "subsystem" per "pseudo subsystem"

12.8 Displays

NMCVT-6040-C

generic alphanumeric display																
Gen S/S	Function					Generic position										
G	A	IDCH03F			IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-6042-C

Generic graphic display																
Gen S/S	Function					Generic position										
G	G	IDCH03F			IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMCVT-6044-C

Generic scrolling display																
Gen S/S	Function					Generic position										

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 144/158

G	L	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6046-C

Generic variable SCOS packet display															
Gen S/S	Function				Generic position										
G	W	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6050-C

Element alphanumeric display															
Function															
A	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6105-C

Element graphic display															
Function															
G	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6128-C

Element scrolling display															
Function															
L	IDCH03F														

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 145/158

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

NMCVT-6135-C

Element variable SCOS packet display															
Function															
W IDCH03F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6150-C

Subsystem display															
S/S type		Element display identifier				Position									
		Function													
IDCH01F		IDCH01F				IDIN03F									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6156-C

Model display item

As corresponding subsystem display item.

NMCVT-6160-C

Subsystem alphanumeric display definition															
S/S type		Function				Subsystem pseudo position									
IDCH01F		A IDCH03F				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 : 23/04/2007

ISSUE : 03 Page : 146/158

NMCVT-6170-C

Subsystem graphic display definition															
S/S type	Function				Subsystem pseudo position										
IDCH01F	G	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6200-C

Subsystem scrolling display definition															
S/S type	Function				Subsystem pseudo position										
IDCH01F	L	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6205-C

Subsystem variable SCOS packet display definition															
S/S type	Function				Subsystem pseudo position										
IDCH01F	W	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6210-C

Model display item definition

As corresponding subsystem display item definition replacing :

- . "subsystem pseudo " per "system pseudo "
- . "subsystem" per "pseudo subsystem"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 147/158

12.9 Constants

NMCVT-6305-C

Generic constant															
Gen. S/S	Function				Generic position										
G	K	IDCH03F			0	0	0								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6310-C

Element constant															
Function															
K	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6330-C

Subsystem constant															
S/S type	Element constant			Position											
	Function														
IDCH01F	K	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6341-C

Model constant

As corresponding subsystem constant.

NMCVT-6350-C

Référence Fichier : Naming_convention_RS.doc du
23/04/2007 09:58

Référence du modèle : M023-3

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 148/158

Subsystem constant definition															
S/S type	Function				Subsystem pseudo position										
IDCH01F	K	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMCVT-6360-C

Model constant definition

As corresponding subsystem constant definition replacing :

- . "subsystem pseudo " per "system pseudo "
- . "subsystem" per "pseudo subsystem"

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 149/158

13. ANNEX 4 – DEFAULT RESERVE ITEM IDENTIFIER RANGES FOR ESOC NEEDS

Refer to next annexes in case there is deviations to the hereafter default reserved ranges

Nb	Item	Range	Industry range	ESOC range	Remarks
1	High level data model				
1-01	Generic box	GENERIC BOX			No allocation possible, this box is unique
1-02	Theoretical elements	IDCH11M			No allocation are done but creation of each object is under ASP responsibility
1-03	Real elements	IDCH14M			
1-04	Theoretical subsystems	IDCH04F			
1-05	Real subsystems	IDCH07F			
1-06	Theoretical models	IDCH10M			
1-07	Real models	IDCH12F			
2	Low level data model				
2-01	TM definition				
2-01-1	TM packet standard	IDIN04F			There should be no need to define different standard header packets than the one already defined at generic level by ASP

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 150/158

Nb	Item	Range	Industry range	ESOC range	Remarks
2-01-2	TM packet PSICD	IDIN03F			There should be no need to define different PSICD header packets than the one already defined at generic level by ASP
2-01-3	TM packet	IDIN03F	[000-899]	[900-999]	
2-01-4	TM packet SCOS archiving	IDIN04F	[0000-8999]	[9000-9999]	
2-01-5	TM structure	IDIN04F	[0000-8999]	[9000-9999]	
2-01-6	TM packet group	IDIN04F	[0000-8999]	[9000-9999]	Note : this is a new CCS capability – Is this capability implemented on MCS ? (it is in fact group of SPID)
2-02	TC definition				
2-02-1	TC packet header	IDCH03F			There should be no need to define different standard header packets than the one already defined at generic level by ASP
2-02-2	TC packet	IDCH03F	All except "Zxx"	"Zxx"	
2-02-3	TC structure	IDIN04F	[0000-8999]	[9000-9999]	
2-02-4	TC packet group	IDIN04F	[0000-8999]	[9000-9999]	Not supported by S2K and CCS
2-03	Command verification stage				
2-03-1	Command verification stage	IDIN04F	[0000-8999]	[9000-9999]	
2-04	Parameters				

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 151/158

Nb	Item	Range	Industry range	ESOC range	Remarks
2-04-1	Parameter	IDCH03F	All except "Yxx" and "Zxx"	"Yxx" and "Zxx"	Independently of the parameter type. "Yxx" and "Zxx" to respect the 20% required by ESOC
2-04-2	Parameter group	IDIN04F	[0000-8999]	[9000-9999]	Note : this is a new CCS capability – Is this capability implemented on MCS ? (it is in fact group of SPID)
2-04-3	Parameter set	IDCH03F	All except "Zxx"	"Zxx"	The allocation can be increased as far as certainly not used by AIT
2-04-4	Parameter value set	IDCH03F	All except "Zxx"	"Zxx"	The allocation can be increased as far as certainly not used by AIT
2-04-5	Parameter range set	IDIN03F	[000-899]	[900-999]	
2-05	Curves				
2-05-1	Curves	IDIN03F	[000-899]	[900-999]	
2-06	Displays				
2-06-1	Alphanumeric display	IDCH03F	All except "Zxx"	"Zxx"	
2-06-2	Graphical display	IDCH03F	All except "Zxx"	"Zxx"	
2-06-3	Scrolling display	IDCH03F	All except "Zxx"	"Zxx"	
2-06-4	Variable SCOS packet display	IDCH03F	All except "Zxx"	"Zxx"	
2-07	Constants				

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 152/158

Nb	Item	Range	Industry range	ESOC range	Remarks
2-07-1	Constants	IDCH03F	All except "Zxx"	"Zxx"	Note : those constants can be used for instance to insure a common parameter value between telemetry and telecommand.

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 153/158

14. ANNEX 5 –SPECIFIC RESERVE ITEM IDENTIFIER RANGES FOR ESOC NEEDS PER SUBSYSTEM

“D” mean the default range applies (refer to annex 4)

“n” refer to specific range(s) in corresponding bullet after the table

“/” means not applicable

14.1 Herschel

	S/S	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
Item																												
TM definition																												
. TM packet standard		D	/	/	D	/	/	/	D	/	/	/	/	/	/	/	D	/	/	D	/	/	/	/	/	/	D	
. TM packet PSICD		D	/	/	D	/	/	/	D	/	/	/	/	/	/	/	D	/	/	D	/	/	/	/	/	/	/	D
. TM packet		9	/	/	1	/	/	/	D	/	/	/	/	/	/	/	D	/	/	D	/	/	/	/	/	/	/	D
. TM packet SCOS archiving		2	/	/	2	/	/	/	D	/	/	/	/	/	/	/	D	/	/	D	/	/	/	/	/	/	/	D
. TM structure		D	/	/	10	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	/	D
. TM packet group		D	/	/	D	/	/	/	D	/	/	/	/	/	/	/	D	/	/	D	/	/	/	/	/	/	/	D
TC definition																												
. TC packet header		D	/	/	D	/	/	/	D	/	/	/	/	/	/	/	D	/	/	D	/	/	/	/	/	/	/	D
. TC packet		3	/	/	3	/	/	/	D	/	/	/	/	/	/	/	D	/	/	D	/	/	/	/	/	/	/	3
. TC structure		D	/	/	4	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	/	D

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 154/158

S/S	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Item																										
. TC packet group	D	/	/	D	/	/	/	D	/	/	/	/	/	/	/	D	/	/	D	/	/	/	/	/	/	D
Command verification stage																										
. Command verification stage	D	/	/	D	/	/	/	D	/	/	/	/	/	/	/	D	/	/	D	/	/	/	/	/	/	D
Parameters																										
. Parameter	5	/	/	6	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	D
. Parameter group	D	/	/	D	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	D
. Parameter set	D	/	/	D	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	D
. Parameter value set	D	/	/	D	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	D
. Parameter range set	D	/	/	D	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	D
Curves																										
. Curves	7	/	/	7	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	7
Displays																										
. Alphanumeric display	D	/	/	D	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	8
. Graphical display	D	/	/	D	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	D
. Scrolling display	D	/	/	D	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	D
. Variable SCOS packet display	D	/	/	D	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	D

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 155/158

S/S	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Item																										
Constants																										
. Constant	D	/	/	8	/	/	/	D	/	/	D	/	/	/	/	D	/	D	D	D	/	/	D	/	/	D

- (1) 7xx except 700
- (2) 3xxx except 3000 and 3001
- (3) Vxx
- (4) x9xx except 9998 and 9999
- (5) _xx & Mxx
- (6) _xx & x Uxx except U00, U01, .. U99
- (7) 6xx
- (8) Yxx
- (9) Default Except 900, 901 and 902
- (10) Default except 9900, 9901 and 9902

14.2 Planck

S/S	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Item																										
TM definition																										
. TM packet standard	D	/	/	D	/	/	/	D	/	/	/	D	/	/	/	/	/	/	D	/	/	/	/	/	/	D

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 156/158

S/S	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Item																										
. TM packet PSICD	D	/	/	D	/	/	/	D	/	/	/	D	/	/	/	/	/	/	D	/	/	/	/	/	/	D
. TM packet	9	/	/	1	/	/	/	D	/	/	/	D	/	/	/	/	/	/	D	/	/	/	/	/	/	D
. TM packet SCOS archiving	2	/	/	2	/	/	/	D	/	/	/	D	/	/	/	/	/	/	D	/	/	/	/	/	/	D
. TM structure	D	/	/	10	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D
. TM packet group	D	/	/	D	/	/	/	D	/	/	/	D	/	/	/	/	/	/	D	/	/	/	/	/	/	D
TC definition																										
. TC packet header	D	/	/	D	/	/	/	D	/	/	/	D	/	/	/	/	/	/	D	/	/	/	/	/	/	D
. TC packet	3	/	/	3	/	/	/	D	/	/	/	D	/	/	/	/	/	/	D	/	/	/	/	/	/	3
. TC structure	D	/	/	4	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D
. TC packet group	D	/	/	D	/	/	/	D	/	/	/	D	/	/	/	/	/	/	D	/	/	/	/	/	/	D
Command verification stage																										
. Command verification stage	D	/	/	D	/	/	/	D	/	/	/	D	/	/	/	/	/	/	D	/	/	/	/	/	/	D
Parameters																										
. Parameter	5	/	/	6	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D
. Parameter group	D	/	/	D	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D
. Parameter set	D	/	/	D	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D
. Parameter value set	D	/	/	D	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D

Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 157/158

S/S	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Item																										
. Parameter range set	D	/	/	D	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D
Curves																										
. Curves	7	/	/	7	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	7
Displays																										
. Alphanumeric display	8	/	/	D	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	8
. Graphical display	D	/	/	D	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D
. Scrolling display	D	/	/	D	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D
. Variable SCOS packet display	D	/	/	D	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D
Constants																										
. Constant	D	/	/	8	/	/	/	D	/	/	D	D	/	/	/	/	/	D	D	D	/	/	D	/	/	D

- (1) 7xx except 700
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Naming Convention Specification

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

DATE : 23/04/2007

ISSUE : 03 Page : 158/158

(8) Yxx

(9) Default Except 900, 901 and 902

(10) Default except 9900, 9901 and 9902

End of the document