

# Naming Convention Specification

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## ENREGISTREMENT DES EVOLUTIONS / CHANGE RECORDS

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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> <ul style="list-style-type: none"> <li>. All examples modified to separate the different fields (separator = "/")</li> <li>. 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.</li> <li>➤ NMCVT-4075-C Deleted (Element)</li> <li>➤ NMCVT-4111-C deleted (Model)</li> <li>➤ NMCVT-4440-C Modified (TM)</li> <li>➤ NMCVT-4450-C Modified "</li> <li>➤ NMCVT-4455-C Modified "</li> <li>➤ NMCVT-4640-C Modified (TC)</li> <li>➤ NMCVT-4650-C Modified "</li> <li>➤ NMCVT-4655-C Modified "</li> <li>➤ NMCVT-4840-C Modified (1553)</li> <li>➤ NMCVT-4850-C Modified "</li> <li>➤ NMCVT-4860-C Modified "</li> <li>➤ NMCVT-5060-C Modified (OBDH)</li> <li>➤ NMCVT-5080-C Modified "</li> <li>➤ NMCVT-5150-C Modified (Parameter)</li> <li>➤ NMCVT-5175-C Modified "</li> <li>➤ NMCVT-5380-C Modified (Curves)</li> <li>➤ NMCVT-7510-C Modified (Pseudo TOSE allocation)</li> <li>➤ NMCVT-7520-C Modified (Pseudo position allocation)</li> <li>➤ Summary updated accordingly</li> <li>. Real definition and direct definition of "logical data" to be unique for "system element model" instead of "real element"</li> <li>➤ NMCVT-4380-C Modified (TM)</li> <li>➤ NMCVT-4400-C Modified "</li> <li>➤ NMCVT-4420-C Modified "</li> <li>➤ NMCVT-4440-C Modified "</li> <li>➤ NMCVT-4450-C Modified "</li> <li>➤ NMCVT-4455-C Modified "</li> <li>➤ NMCVT-4580-C Modified (TC)</li> </ul>	F. Chatte

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		<ul style="list-style-type: none"> <li>➤ NMCVT-4600-C Modified "</li> <li>➤ NMCVT-4620-C Modified "</li> <li>➤ NMCVT-4640-C Modified "</li> <li>➤ NMCVT-4650-C Modified "</li> <li>➤ NMCVT-4655-C Modified "</li> <li>➤ NMCVT-4780-C Modified (1553)</li> <li>➤ NMCVT-4800-C Modified "</li> <li>➤ NMCVT-4820-C Modified "</li> <li>➤ NMCVT-4840-C Modified "</li> <li>➤ NMCVT-4850-C Modified "</li> <li>➤ NMCVT-4860- C Modified "</li> <li>➤ NMCVT-5020-C Modified (OBDH)</li> <li>➤ NMCVT-5044-C Modified "</li> <li>➤ NMCVT-5060-C Modified "</li> <li>➤ NMCVT-5080-C Modified "</li> <li>➤ NMCVT-5130-C Modified (Parameters)</li> <li>➤ NMCVT-5150-C Modified "</li> <li>➤ NMCVT-5160-C Modified "</li> <li>➤ NMCVT-5175-C Modified "</li> <li>➤ NMCVT-4450-C Modified "</li> <li>➤ NMCVT-4455-C Modified "</li> </ul> <p>Introduction (chapter 1)</p> <ul style="list-style-type: none"> <li>. Adding introduction (§1.1)</li> </ul> <p>Documents (Chapter 2)</p> <ul style="list-style-type: none"> <li>. HPSDB specification change from applicable document to reference document</li> <li>. Adding of acronyms</li> <li>. Adding of definition</li> </ul> <p>General requirements (Chapter 3)</p> <ul style="list-style-type: none"> <li>. Clarification on parameter function code</li> <li>. definition of pseudo subsystem, type of system element, position, ...</li> <li>➤ NMCVT-0110-C Modified</li> <li>➤ NMCVT-0200-C New</li> <li>➤ NMCVT-0300-C New</li> <li>➤ NMCVT-0400-C New</li> </ul> <p>Modification of TM packet identifier (IDIN09F instead of IDIN10F)</p> <ul style="list-style-type: none"> <li>➤ NMCVT-4114-C New</li> <li>➤ NMCVT-4340-C Modified</li> <li>➤ NMCVT-4380-C Modified</li> <li>➤ NMCVT-7500-C Modified</li> </ul> <p>Modification of PSICD templates</p> <ul style="list-style-type: none"> <li>➤ NMCVT-4320-C Modified (TM)</li> <li>➤ NMCVT-4520-C Modified (TC)</li> </ul>	

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		<p>Creation of theoretical command sequences</p> <ul style="list-style-type: none"> <li>➤ NMCVT-4657-C New</li> <li>➤ NMCVT-4660-C Deleted</li> <li>➤ NMCVT-4670-C New</li> <li>➤ NMCVT-4672-C New</li> <li>➤ NMCVT-4674-C New</li> <li>➤ NMCVT-4675-C New</li> <li>➤ NMCVT-4676-C New</li> </ul> <p>1553 template replace by 1553 command word</p> <ul style="list-style-type: none"> <li>➤ NMCVT-4705-C Modified</li> </ul> <p>Parameters :</p> <ul style="list-style-type: none"> <li>. Suppression of groups type (acquisition / command)</li> <li>. Adding of parameter set definition</li> <li>. Adding of parameter set value definition</li> <li>. Adding of parameter range set definition</li> </ul> <ul style="list-style-type: none"> <li>➤ NMCVT-5126-C Modified</li> <li>➤ NMCVT-5210-C New</li> <li>➤ NMCVT-5215-C New</li> <li>➤ NMCVT-5217-C New</li> <li>➤ NMCVT-5220-C New</li> <li>➤ NMCVT-5225-C New</li> <li>➤ NMCVT-5227-C New</li> <li>➤ NMCVT-5250-C New</li> <li>➤ NMCVT-5255-C New</li> <li>➤ NMCVT-5257-C New</li> <li>➤ NMCVT-4690-C Deleted</li> <li>➤ NMCVT-4695-C Deleted</li> </ul> <p>Curves</p> <ul style="list-style-type: none"> <li>➤ NMCVT-5120-C New</li> <li>➤ NMCVT-5355-C New</li> <li>➤ NMCVT-5360-C Modified</li> <li>➤ NMCVT-5365-C New</li> <li>➤ NMCVT-5370-C Modified</li> <li>➤ NMCVT-5375-C New</li> <li>➤ NMCVT-5380-C Deleted</li> </ul> <p>Displays</p> <ul style="list-style-type: none"> <li>. Adding of theoretical display / suppression of mimic displays</li> </ul> <ul style="list-style-type: none"> <li>➤ NMCVT-6050-C New</li> <li>➤ NMCVT-6100-C Deleted</li> <li>➤ NMCVT-6105-C New</li> <li>➤ NMCVT-6110-C Deleted</li> <li>➤ NMCVT-6120-C Deleted</li> <li>➤ NMCVT-6125-C Deleted</li> <li>➤ NMCVT-6128-C New</li> <li>➤ NMCVT-6130-C Deleted</li> </ul>	

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01/02	15/10/02	<p>Modification of real display requirement</p> <ul style="list-style-type: none"> <li>➤ NMCVT-6150-C New</li> </ul> <p>Adding of display direct definition</p> <ul style="list-style-type: none"> <li>➤ NMCVT-6160-C New</li> <li>➤ NMCVT-6170-C New</li> <li>➤ NMCVT-6200-C New</li> </ul> <p>Requirement numbering correction</p> <ul style="list-style-type: none"> <li>➤ NMCVT-7520-C instead of NMCVT-7510-C</li> </ul> <p>"Type of system element" changed by "theoretical element" "System element model" changed by "theoretical model"</p> <p>"... direct definition" change in "model ... definition"</p> <ul style="list-style-type: none"> <li>➤ all requirements previously titled "... direct definition".</li> </ul> <p>Update according to HPSDB 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"> <li>1. Subsystem level between element and model levels,</li> <li>2. TM packet SCOS archiving (refer to SPID of SCOS),</li> <li>3. Modification of TC template (to be compliant with SCOS),</li> <li>4. Formal parameter identifier unique for a command sequence,</li> <li>5. Addition of command verification stage,</li> <li>6. 1553 status word being no more a generic data,</li> <li>7. Generic parameters,</li> <li>8. Constants.</li> </ol> <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

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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"> <li>➤ NMCVT-7510-C modified</li> <li>➤ NMCVT-7520-C modified</li> </ul> <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"> <li>➤ NMCVT-0110-C modified</li> <li>➤ NMCVT-3980-C new</li> <li>➤ NMCVT-3985-C new</li> <li>➤ NMCVT-4305-C modified</li> <li>➤ NMCVT-4311-C new</li> <li>➤ NMCVT-4320-C modified</li> <li>➤ NMCVT-4332-C new</li> <li>➤ NMCVT-4356-C new</li> <li>➤ NMCVT-4358-C new</li> <li>➤ NMCVT-4394-C new</li> <li>➤ NMCVT-4396-C new</li> <li>➤ NMCVT-4441-C new</li> <li>➤ NMCVT-4442-C new</li> <li>➤ NMCVT-4461-C modified note</li> <li>➤ NMCVT-4505-C modified</li> <li>➤ NMCVT-4511-C new</li> <li>➤ NMCVT-4513-C new</li> <li>➤ NMCVT-4515-C new</li> <li>➤ NMCVT-4533-C new</li> <li>➤ NMCVT-4577-C new</li> <li>➤ NMCVT-4638-C modified note</li> <li>➤ NMCVT-4639-C new</li> <li>➤ NMCVT-4656-C modified note</li> <li>➤ NMCVT-4657-C new</li> <li>➤ NMCVT-4659-C is the new number of req. 4657</li> <li>➤ NMCVT-4677-C new</li> <li>➤ NMCVT-4679-C is the new number of req. 4677</li> <li>➤ NMCVT-4702-C new</li> <li>➤ NMCVT-4705-C modified</li> <li>➤ NMCVT-4711-C new</li> <li>➤ NMCVT-4714-C new</li> <li>➤ NMCVT-4716-C new</li> <li>➤ NMCVT-4726-C new</li> <li>➤ NMCVT-4780-C new</li> <li>➤ NMCVT-4841-C new</li> <li>➤ NMCVT-4865-C modified note</li> <li>➤ NMCVT-4961-C new</li> <li>➤ NMCVT-4965-C new</li> <li>➤ NMCVT-5106-C new</li> <li>➤ NMCVT-5201-C new</li> <li>➤ NMCVT-5218-C new</li> <li>➤ NMCVT-5245-C new</li> </ul>	F. Chatte

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		<ul style="list-style-type: none"> <li>➤ NMCVT-6040-C new</li> <li>➤ NMCVT-6042-C new</li> <li>➤ NMCVT-6044-C new</li> </ul> <p>Introduction of unit list according to the fax HP-ASPI-LT-2562 (Action A9 of PDR)</p> <ul style="list-style-type: none"> <li>➤ Paragraph "6.2 Unit" new</li> <li>➤ NMCVT-7630-C new</li> <li>➤ §8. units customisation : new</li> </ul> <p>Introduction of 1553 acquisition command link identifier</p> <ul style="list-style-type: none"> <li>➤ NMCVT-4713-C new      Generic</li> <li>➤ NMCVT-4752-C new      Element</li> <li>➤ NMCVT-4795-C new      Subsystem</li> <li>➤ NMCVT-4845-C new      Subsystem definition</li> </ul> <p>Introduction of OBDH acquisition command link identifier</p> <ul style="list-style-type: none"> <li>➤ NMCVT-4963-C new      Generic</li> <li>➤ NMCVT-4977-C new      Element</li> <li>➤ NMCVT-5040-C new      Subsystem</li> <li>➤ NMCVT-5070-C new      Subsystem definition</li> </ul> <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"> <li>➤ Chapter 1 modified</li> <li>➤ NMCVT-4677-Instruments-C      new      CVS</li> <li>➤ NMCVT-5245-Instruments-C      new      Range set</li> <li>➤ NMCVT-5355-Instruments-C      new      Curve</li> </ul> <p>Specific requirements for instruments :</p> <ul style="list-style-type: none"> <li>➤ NMCVT-9000-Instruments-C      new      Curve</li> <li>➤ NMCVT-9010-Instruments-C      new      range set</li> <li>➤ NMCVT-9020-Instruments-C      new      CVS</li> <li>➤ NMCVT-9030-Instruments-C      new      UDC</li> <li>➤ NMCVT-9040-Instruments-C      new      Constant packet</li> <li>➤ NMCVT-9050-Instruments-C      new      SPID and TPSD</li> <li>➤ NMCVT-9060-Instruments-C      new      PCF_WIDTH</li> <li>➤ NMCVT-9070-Instruments-C      new      Position code</li> <li>➤ NMCVT-9080-Instruments-C      new      On-board ID</li> </ul> <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"> <li>➤ NMCVT-7530-C new      Generic</li> </ul> <p>New reference document : RD5</p> <p>Update of chapter 7 (Annex 1 : compliance matrix with OIRD annex 4)</p>	



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02/00	08/09/03	<p>Variable display addition :</p> <ul style="list-style-type: none"> <li>➤ NMCVT-0110-C Modified</li> <li>➤ NMCVT-6046-C New</li> <li>➤ NMCVT-6135-C New</li> <li>➤ NMCVT-6205-C New</li> </ul> <p>On-board parameter allocation</p> <ul style="list-style-type: none"> <li>➤ NMCVT-7800-C Modified</li> <li>➤ NMCVT-7540-C New</li> </ul> <p>Miscellaneous</p> <ul style="list-style-type: none"> <li>➤ NMCVT-7620-C Deleted</li> </ul> <p>Suppression of subsystems F and J</p> <ul style="list-style-type: none"> <li>➤ NMCVT-7500-C Modified</li> <li>➤ NMCVT-7510-C Modified</li> <li>➤ NMCVT-7520-C Modified</li> </ul> <p>TPCF instantiation</p> <ul style="list-style-type: none"> <li>➤ NMCVT-4353-C Modified Element</li> <li>➤ NMCVT-4393-C New Subsystem</li> <li>➤ NMCVT-4446-C New Subsystem definition</li> </ul> <p>Static and dynamic user parameters</p> <ul style="list-style-type: none"> <li>➤ NMCVT-0110-C Modified</li> </ul> <p>Reason of change identifiers</p> <ul style="list-style-type: none"> <li>➤ NMCVT-6370-C New</li> <li>➤ NMCVT-6374-C New</li> <li>➤ NMCVT-6378-C New</li> <li>➤ NMCVT-6382-C New</li> <li>➤ NMCVT-6384-C New</li> <li>➤ NMCVT-6386-C New</li> </ul> <p>Site list</p> <ul style="list-style-type: none"> <li>➤ NMCVT-6730-C New</li> </ul> <p>Flight Dynamics data</p> <ul style="list-style-type: none"> <li>➤ NMCVT-7810-C New (according to AI#2472-01)</li> </ul> <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"> <li>➤ NMCVT-5365-C Modified Element real cond. curve</li> <li>➤ NMCVT-5365a-C New Element real def. curve</li> <li>➤ NMCVT-5368-C Modified Subsys. real cond. curve</li> <li>➤ NMCVT-5368a-C New Subsys. real def. curve</li> <li>➤ NMCVT-5375-C Modified Model real cond. curve</li> </ul>	

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		➤ NMCVT-5375a-C New Model real def. Curve = 02/00D1	

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## 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 AD2. HPSDB identifiers are compliant with AD2 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,
- 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"

- 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 "AM012023020".

## "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, ... .
- Example : "Herschel PFM" including subsystem " A001" with
  - Real parameter identifier instantiated in "AM012023" and limit set updated to (5,~~1140~~).

## "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~~0~~"

## 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.

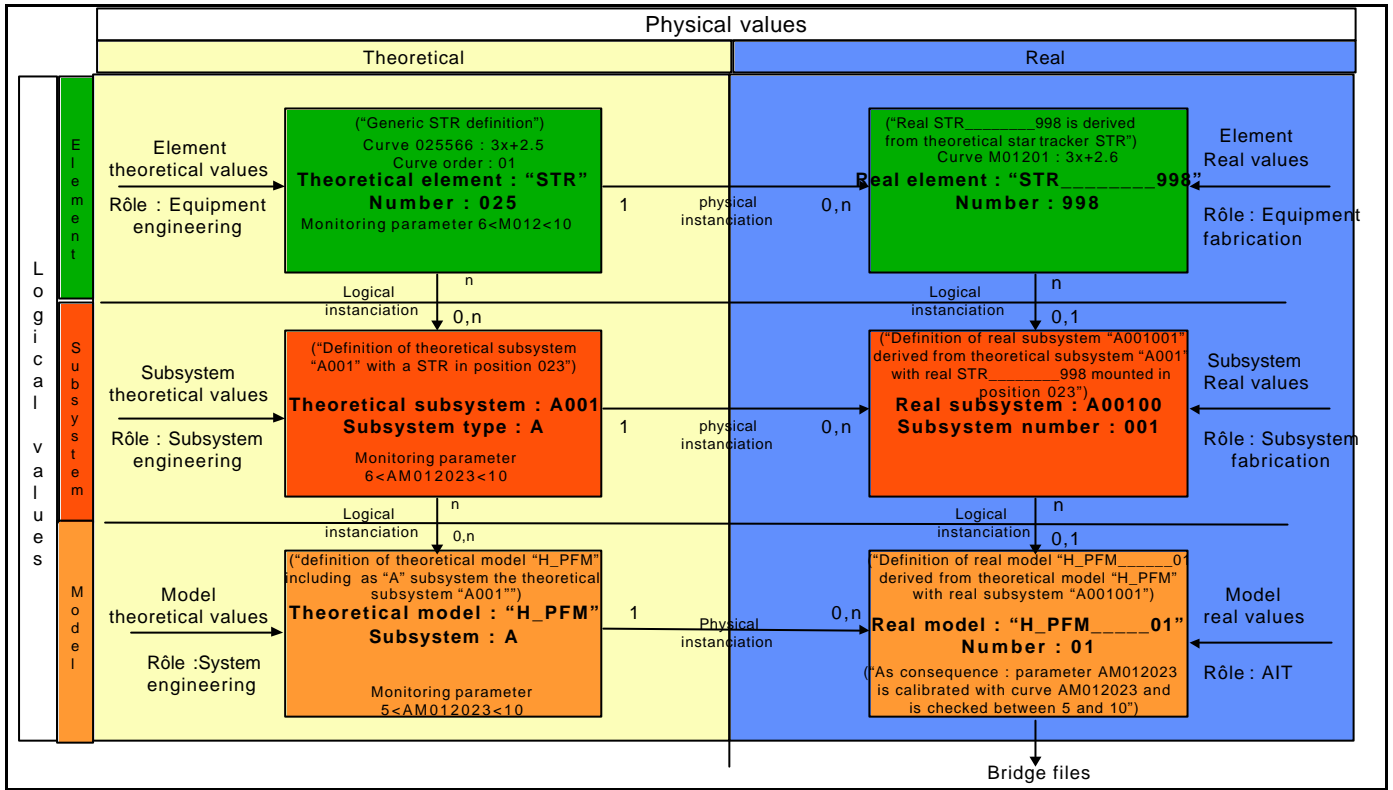


Figure 1-14-1 - Higher level data model

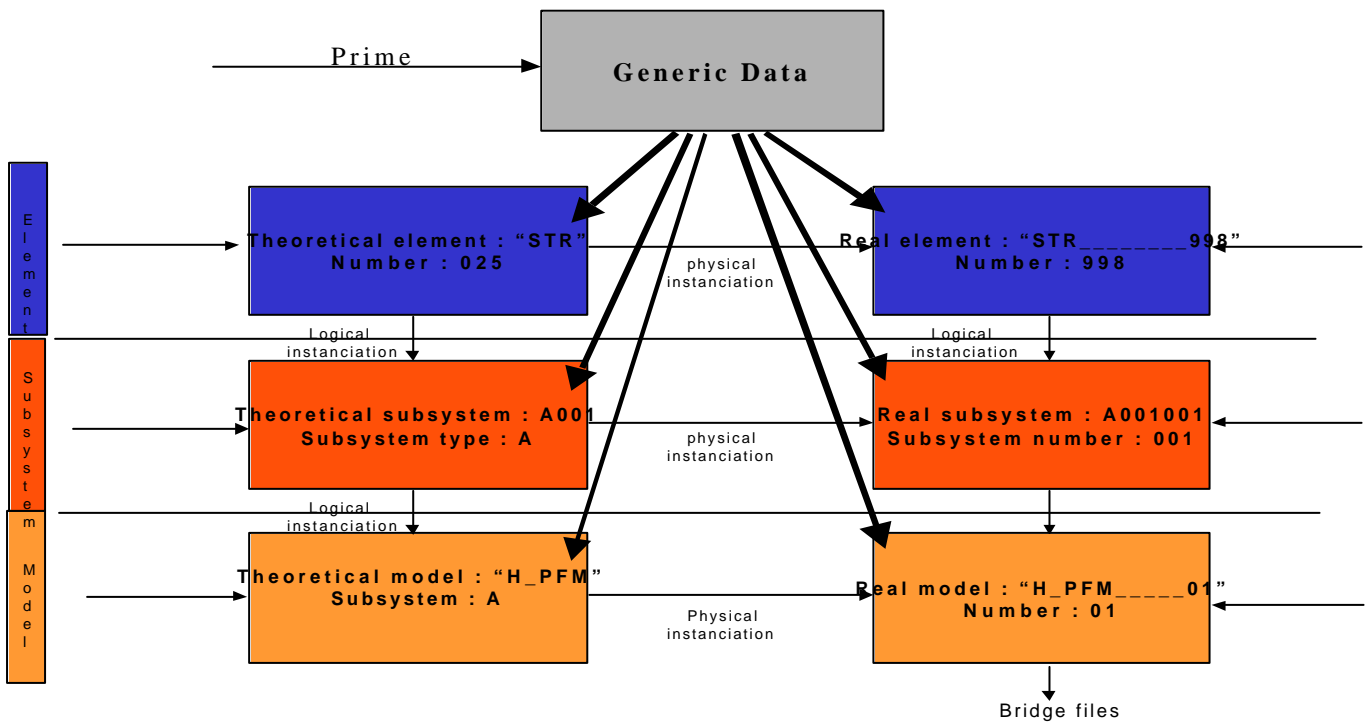


Figure 1-3 - Generic box

## 2. DOCUMENTS

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

### 2.1 Applicable documents

None

### 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
<a href="#">RD5</a>	<a href="#">H-P-4-TE-ID-8020</a>	<a href="#">Herschel / Planck Central Checkout System External Interface Control Document</a>

### 2.3 Acronyms

ACC	Attitude Control Computer
ACMS	Attitude Control and Measurement System
AD	Applicable Document
AIT	Assembly Integration Test
ASCII	American Standard ...
ASPI	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
<a href="#">FDD</a>	<a href="#">Flight Dynamics Data</a>

# Naming Convention Specification

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

DATE : 08/09/2003

ISSUE : 02/00 Page : 22/170

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FDDDB	Flight Dynamics Data Base
FE	Front End
FM	Flight Model
GSE	Ground Support Equipment
HPsDB	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

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"

Parameter which is part of the "acquisition chain", so it is included in TM packet, 1553 acquisition message, or 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", "reference" and "archive".

### "Attributes" (often called "data" in requirements)

"Attributes" are the different characteristics associated to a "granule" (for instance : attributes 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" or "real model", ["generic"](#).

### "Box 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). By default granules are allocated to all clients. A category is a flag associated to each granule or element in a list which allows to allocate each granule or element in the list to one or several client (On-board software, AIT, operations). By default granules are allocated to all clients.~~

### "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.

## "Command parameter"

Parameter which is part of the "command chain", so it is included in TC packet, 1553 command message, OBDH interrogation, or command parameter.

## "Data"

Refer to "attributes".

## "Derived parameter"

A "derived parameter" is a parameter which is defined as a mathematical expression which can include any other type of parameter.

## "Direct definition"

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 to "normal definition"](#).

## "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 transfer consistent subset of data from "reference area" of the "central site" to "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 identifiers" the tool provides an "external identifier" which is imported in 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 items"

"Generic" items are the ones which are not attached to an element, subsystem or model but which can be referenced by an element, subsystem or model. Those items are not ~~instanciated~~ [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 attributes 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 refer 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 or box objects each one being identified by its own identifier. The "box object" groups are used to define a list of "box object" on which the user role applies.

## "Identifier"

Each item, theoretical or real, has an unique "identifier". The "theoretical element" identifiers are input by the user. Except for curves identifiers, the "real element" identifiers are the same as the "theoretical element" identifiers. The "theoretical subsystem" identifiers are instantiated from the "theoretical element" identifiers with the subsystem identifier and the element position within the subsystem. Except for curves identifiers, the "real subsystem" identifier are the same as the "theoretical subsystem" identifiers. The "theoretical model" identifiers are the same as the "theoretical subsystem" identifiers. Except for curves identifiers, the "real model" identifiers are the same as the "theoretical model" identifiers. For curve identifiers, the "real" (element or subsystem or model) identifiers are the same than the parameters they refer to associated with a calibration set order.

## "Instantiation"

"Physical instantiation" (refer to "physical data") : when an item (element or model) is instantiated from a theoretical item to a real item then :

By default, the attributes of the real item are the same as the ones of the theoretical item,

Some attributes of the real item can be generated by concatenation of the ones of the theoretical item with a dedicated real item attribute (for instance : item identifier, ...). The real item dedicated attribute used to perform the concatenation is the item number (real element number or real subsystem number or real model number).

Some attributes of the real item can supersede the corresponding attributes of the theoretical item (Curves identifier, curves contents, ...).

"Logical instantiation" (refer to "logical data") when an element (theoretical or real) is allocated to a subsystem (theoretical or real) or when a subsystem (theoretical or real) is allocated to a model (theoretical or real) then :

By default, the attributes of the element / subsystem inside the subsystem / model are the same as the ones of the source element / subsystem (example : mass, ...),

Some attributes of the element / subsystem inside the subsystem / model can be generated by concatenation of the ones of the source element / subsystem with a dedicated attribute associated to the subsystem / model (for instance : parameter identifier, short description, ...). The dedicated attribute associated to the subsystem / model used to performed the concatenation is composed of the subsystem type to which is allocated the element and the element "position" inside the model / is composed of "null".

Some attributes of the element inside the subsystem / model can supersede the attributes of the source element / subsystem (limits, ...).

## "Intelligent equipment's"

An equipment is said intelligent if he can receive (send) TM (TC) packets via 1553 lower level protocol.

## "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" items which have been validated at any "mirror site" level.

## "Logical data"

"Logical data" are the attributes of "a theoretical element" or of a "real element" which are instantiated respectively at "theoretical subsystem" generation (TM packet identifier, TC packet identifier, command sequence identifier, 1553 message identifier, OBDH interrogation identifier, parameter identifier, ...) or at "real subsystem" generation (TM packet identifier, TC packet identifier, command sequence identifier, 1553 message identifier, OBDH interrogation identifier, parameter identifier, curve identifier ...). "Logical data" are also the attributes of "a theoretical subsystem" or of a "real subsystem" which are instantiated respectively at "theoretical model" generation (TM packet identifier, TC packet identifier, command sequence identifier, 1553 message identifier, OBDH interrogation identifier, parameter identifier, ...) or at "real model" generation (TM packet identifier, TC packet identifier, command sequence identifier, 1553 message identifier, OBDH interrogation identifier, parameter identifier, curve identifier ...).

## "Merged box object"

A "merged box object" is a "box object" resulting of the merging of several other box objects of the same type (element / subsystem / model theoretical / real). "Physical instantiation" applies for a "merged box object". There is no "logical instantiation" for a "merged box object".

## "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 its "mirror site" but each validation is automatically reported to the "working area" of the "central site" via the "log / log download" activity.

## "Model"

A "model" is a spacecraft model. It can be Herschel PFM, Planck SVM PFM, AVM, ... . It can be "theoretical" or "real". It is built from a collection of elements 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 associated to subsystem data, this concern the items which cannot be associated to a subsystem, for instance derived parameter calculated from parameters issued from different subsystems.

## "Non-Intelligent equipment's"

An equipment is said non-intelligent if he cannot receive (send) TM (TC) packets via 1553 lower level protocol, in this case it exchanges its data with the bus controller via the 1553 messages.

## "Normal definition"

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

## "Owner"

An "owner" of an element /subsystem / model is the user or user group who has created the element / subsystem / model and who is allowed to modify / delete it.

## "Physical data"

"Physical data" are the attributes of a "theoretical box" which are instantiated respectively at "real box" generation (Mass, calibration curve, ...) or at "real subsystem" generation (Calibration curve, ...) or at "real model" generation (Calibration curve, ...).

## "Real"

The word "real" is used to represent an instantiation of corresponding theoretical element or model. Before Issue 2.2 of HPSDB specification, 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 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 CDMU 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").

## "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".

## "Selector" (up to issue 1.2 was equivalent to "unique")

A "selector" is a parameter ~~or location (TBC)~~ which allows, in function of its raw value, to determine the contents of a part of an associated packet, message or structure.

## "Subsystem"

A "subsystem" is a part of theoretical model in charge of a function (ACMS, CDMS, Power distribution, one experiment, ...). It is composed of a list, possibly dependant of the theoretical model it belongs to (for instance : ACMS), of "theoretical elements" and associated real physical attributes (X, Y, Z, ...) and logical attributes (bus addresses, ...) allowing to instantiate some attributes of "theoretical element" (parameter identifier, command identifier, ...). EGSE is considered as a subsystem.

## "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.

## "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 for items (Parameter, message 1553, curves, ...) of "theoretical element" or "theoretical model" which have not been instantiated via "physical instantiation" (opposite is "real").

## "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).

## "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 spacecraft model (for instance : Herschel PFM, AVM). A "theoretical model" contains a list of subsystems.

## "Theoretical subsystem"

A "theoretical subsystem" is a generic definition of a spacecraft subsystem (for instance : Herschel ACMS, AVM PCS) in charge of a function. A "theoretical subsystem" contains a list of theoretical elements.

## "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 part of limits selection condition set).

## "User view"

"User views" are identical to "items".

## "Validation date"

Date and time at which the data base manager has validated an item from the archive area to the reference area.

## "Working area"

A "working area" is an "area" where the user enters all its items. In this area the user items are not traced except for downloaded items.

## 3. GENERAL IDENTIFIER REQUIREMENTS

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

### NMCVT-0100-C - Identifier type - I

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

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

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
- IDE201F (function specifier for parameter - refer to RD1-A4.3) :
  - Length = 1,
  - Enumerated data :

.	"B"	<del>for command header parameter, Spare (at function level),</del>
.	"D"	for synthetic (derived) parameters,
.	"E"	Spare (at function level),
.	"F"	Spare (at function level),
.	"H"	<del>Spare (at function level),</del>
.	"J"	Spare (at function level),
.	"M"	for TM parameters,
.	"N"	<del>for dynamic user parameter, Spare (at function level),</del>
.	"P"	for command parameter,
.	"U"	for <u>static</u> user parameter,
.	<del>"W"</del>	<del>Spare (at function level),</del>
-	"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),
.	<del>H</del>	<del>for generic curve (refer to NMCVT 5355-C)</del>
.	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),
.	V	for parameter value set (refer to NMCVT-5220-C),
.	<del>W</del>	<del>for variable SCOS packet display (refer to NMCVT-6135-C)</del>

- . X for TC packet header (not supported),
- . Y for TC packet header parameter (not supported).

**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.



## 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),
- Be unique.

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

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

**NMCVT-4050-C - Real element**

"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**

"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**

"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**

"Subsystem" type shall :

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

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

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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.

## NMCVT-4081b-C - Subsystem type number - I

"Subsystem type number" shall :

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

For instance : "01", "03", "~~2625~~", "08"

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

## NMCVT-4081c-C - Position - I

"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 - I

"Position code" identifier shall :

- Be of IDCH01M subtype (refer to NMCVT-7520-C).

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 - I

"Subsystem number" identifier shall :

- Be of IDCH03F subtype (refer to NMCVT-7520-C)
- Be unique for a subsystem type.

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

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## Notes:

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

### **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**

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NMCVT-4117-C - Deleted

NMCVT-4120-C - Real model

"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

"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-4305-C - Generic TM packet standard ~~template~~

I

"Generic TM packet standard ~~template~~" identifier shall :

- be of ~~IDCH10F~~IDCH14F subtype with the following limitations :
  - From first character up to third character is "generic element" number (IDIN03F- refer to ~~NMCVT-39854040-C~~) First character is "generic subsystem" type (IDCH01F - refer to NMCVT-4081a-C),  
? Second character is "X",
  - From fourth up to seventh ~~From third up to sixth~~ character is "TMSD" (to refer to TM packet standard ~~template~~),
  - From ~~eighth up to eleventh~~ seventh up to tenth character is IDIN04F,
  - From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to ~~NMCVT-4081-C~~).
- Be unique.

For instance : "~~G/X000~~/TMSD/0123/000", "~~G/X000~~/TMSD/9999/000", "~~G/000X~~/TMSD/0250/000"

## 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-39854040-C](#)).
  - From fourth up to seventh character is "TM GR" (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 ~~template~~ - I

"Generic TM packet PSICD ~~template~~" identifier shall :

- Be of ~~IDCH12F~~IDCH16F subtype with the following limitations :
  - From first character up to third character is "generic element" number (IDIN03F- refer to [NMCVT-39854040-C](#)).
  - ? First character is "generic subsystem" type (IDCH01F refer to [NMCVT 4081a C](#)),
  - ? Second character is "X",
  - From ~~fourth up to seventh~~ ~~third up to sixth~~ character is "TMPS" (to refer to TM packet PSICD ~~template~~),
  - From ~~eighth seventh~~ up to ~~ninth tenth~~ character is IDIN03F (Type),
  - From ~~tenth eleventh~~ up to ~~twelfth 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 : "~~G/X~~000/TMPS/001/001/000", "~~G/X~~000/TMPS/021/004/000", "000~~G/X~~/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-40403985-C](#)).

- [From fourth up to seventh character is "PKTM" \(to refer to TM packet\).](#)
- [Eighth character is "A".](#)
- [From ninth up to eleventh character is IDIN03F.](#)
- [From eleventh up to fourteenth character is "generic position" identifier \(IDIN03F - refer to NMCVT-4081c-C\).](#)
- [Be unique.](#)

*For instance : "000/PKTM/A/123/000", "000/PKTM/A/999/000", "000/PKTM/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"*

## 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-~~40403985~~-C),
  - From fourth up to seventh character is "TMST",

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- From eighth up to eleventh character is IDIN04F,
  - From eleventh 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", "*

## NMCVT-4340-C - Element TM packet

"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 "PKTM",
  - Eighth character is "A",
  - From ninth up to eleventh character is " IDIN03F,
- Be unique for an "element".

*For instance : "001/PKTM/A/001", "987/PKTM/A/987", "025/PKTM/A/026"*

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

"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

"Element TPCF" identifier shall :

- Be of IDCH08EM subtype,
- Be unique for an "element".

*For instance : "01234567", "ABCDEFGH", "A"*

## ~~NMCVT-4356-C - Element TM packet standard template~~

~~"Element TM packet standard template" 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 template).~~



- From eighth up to eleventh character is IDIN04F.
- Be unique for an "element".

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

## NMCVT-4358-C - Element TM ~~packet PSICD template~~ - \_\_\_\_\_I

"Element TM ~~packet PSICD template~~" 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 "TM PS" (to refer to TM ~~PSICD template~~).
  - From eighth up to tenth character is ~~type~~ IDIN03F (type).
  - From eleventh up to thirteenth character is ~~subtype~~ IDIN3F (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"*

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

*For instance : "001PKTMA000/001", "987PKTMA999/987", "025PKTMA026/925"*

## **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 ~~template~~ - |

"Subsystem TM packet standard ~~template~~" identifier shall :

- be of IDCH14F subtype with the following limitations :
  - From first up to eleventh character is "element TM packet standard ~~template~~" 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 : "001TMSD0123/008", "010TMSD9999/018", "080TMSD0250/088"*

## NMCVT-4396-C - Subsystem TM packet PSICD ~~template~~ - |

"Subsystem TM packet PSICD ~~template~~" identifier shall :

- be of IDCH16F subtype with the following limitations :
  - From first up to thirteenth character is "element TM packet PSICD ~~template~~" identifier (IDCH11F - refer to NMCVT-43~~5960~~-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 - |

"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 - |

"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),

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- 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 :

1. TM item can be :
  - 1.1. [TM packet standard](#),
  - 1.2. [TM packet PSICD](#).
  - ~~1.1.1.3.~~ [TM packet](#),
  - ~~1.2.1.4.~~ [TM packet SCOS archiving \(including TPCF\)](#),
  - ~~1.3.1.5.~~ [TM structure](#),
  - ~~1.4.1.6.~~ [TM packet group](#).
  - ~~1.5.~~ [TM packet standard template](#),
  - ~~1.6.~~ [TM packet PSICD template](#).

## 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 ~~template~~ definition](#) - I

["Subsystem TM packet standard ~~template~~ 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 ~~template~~ definition - I

"Subsystem TM packet PSICD ~~template~~" identifier shall :

- [Be of IDCH16F subtype with the following limitations :](#)
  - [From first character up to third character is subsystem pseudo element number \(IDIN03F - refer to NMCVT-4040-C\).](#)
  - [From fourth up to seventh character is "TMPS" \(to refer to TM packet PSICD ~~template~~\).](#)
  - [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", "25/9999/988", "01/0250/108"*

## **NMCVT-4446-C - Subsystem TPCF definition - I**

"Subsystem TPCF definition" identifier shall :

- Be of IDCH11F 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 ninth up to eleventh character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

*For instance : "01234567/109", "ABCDEFGH/988"*

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

*For instance : "108/TMST/0123/108", "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 : "108/TMGR/0123/108", "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 : "990/PKTM/A/000/991", "26/0123/999", "999/TMST/9999/999", "995/TMGR/0250/996"

Notes :

1. TM item can be :
    - 1.1. TM packet standard.
    - 1.2. TM packet PSICD.
      - ~~1.1.1.3.~~ TM packet,
      - ~~1.2.1.4.~~ TM packet SCOS archiving (including TPCF),
      - ~~1.3.1.5.~~ TM structure,
      - ~~1.4.1.6.~~ TM packet group.
- ~~TM packet standard template.~~  
~~TM packet PSICD template.~~

## 4.3 Telecommand packets

**NMCVT-4505-C - Generic TC packet header ~~template~~ -**

"Generic TC packet header ~~template~~" identifier shall :

- be of ~~IDCH10F~~IDCH14F subtype with the following limitations :
    - From first character up to third character is "generic element" number (IDIN03F- refer to NMCVT-~~40403085-C~~).
    - From fourth up to seventh character is "TCHD" (to refer to TC packet header ~~template~~).
    - From eighth up to eleventh character is IDIN04F.
    - From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081-C).
- ~~? First character is "generic subsystem" identifier (IDCH01F refer to NMCVT 4081a C),~~  
~~? Second character is "X",~~  
~~? From third up to sixth character is "TCHD" (to refer to TC packet header template),~~  
~~? From seventh up to tenth character is IDIN04F,~~
- Be unique.

For instance : "~~G~~AX000/~~TCSD~~TCHSD/0123/~~000~~000", "~~G~~AX000/~~TC~~HSD/9999/~~000~~000",  
"~~G~~AX000/~~TC~~HSD/0250/~~000~~000"

## NMCVT-4511-C - Generic TC packet

"Generic TC packet" identifier shall :

- Be of IDCH08F04F 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-4081-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

"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 NMCVT-40403085-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-4081-C).
- Be unique.

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

## NMCVT-4515-C - Generic TC packet group

"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-39854040-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-4081-C).
- Be unique.

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



**NMCVT-4520-C** - Deleted

**NMCVT-4533-C** - **Element TC packet header ~~template~~** - |

"Element TC packet header ~~template~~" identifier shall :

- be of IDCH11F subtype with the following limitations :
  - From first character up to third character is " element" number (IDIN03F- refer to NMCVT-4040-C).
  - From fourth up to seventh character is "TCHD" (to refer to TC packet header ~~template~~).
  - From eighth up to eleventh character is IDIN04F.
- Be unique for an "element".

*For instance : "001/TCHD/0123", "960/TCHSD/9999", "020/TCHD/0250"*

**NMCVT-4540-C** - **Element TC packet** - |

"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 : "C012", "CABC", "C999", "C025"*

**NMCVT-4560-C** - **Element TC structure** - |

"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),
  - 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** - |

"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),

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- 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 IDCH14F subtype with the following limitation :
- From first up to eleventh character is "element TC packet header" 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 : "012TCHD0123/012", "960TCHD9999/961", "020TCHD0250/025"*

## 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"*

## 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"*

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## 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-4634-C - Subsystem TC packet header template - I~~

~~"Subsystem TC packet header template" identifier shall :~~

~~?Be of IDCH14F subtype with the following limitation :~~

~~?From first up to eleventh character is "element TC packet header template " 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 : "012TCHD0123/012", "960TCHD9999/961", "020TCHD0250/025"~~

## 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,
  - ~~1.1.1.2. TC packet,~~
  - ~~1.2.1.3. TC structure,~~
  - ~~1.3.1.4. TC packet group.~~
  - ~~TC packet header template~~

## ~~NMCVT-4639-C - Subsystem TC packet header template definition - I~~

~~"Subsystem TC packet header template definition" identifier shall :~~

- ~~Be of IDCH14F subtype with the following limitations :~~

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- [From first up to third character is "subsystem pseudo element" number \(IDIN03F - refer to NMCVT-4040-C\).](#)
- [From fourth up to seventh character is "TCHD" \(to refer to TC header ~~template~~\).](#)
- [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 : "108/TCHD/0123/108", "988/TCHD/9999/989", "238/TCHD/0250/289"*

## **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/108", "Y/C/999/989", "H/C/025/238"*

## **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 : "108/TCST/0123/108", "988/TCST/9999/989", "238/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),
  - 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 : "108/TCGR/0123/108", "988/TCGR/9999/989", "238/TCGR/0250/289"

## NMCVT-4656-C - Model TC item definition - I

"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/012/990", "991/TCST/0123/992", "999/TCGR/0123/998"

Notes :

1. TC item can be :
  - 1.1. [TC packet header](#).
  - ~~1.1.1.2.~~ [TC packet](#),
  - ~~1.2.1.3.~~ [TC structure](#),
  - ~~1.3.1.4.~~ [TC packet group](#).
  - ~~TC packet header template.~~

## 4.4 Command sequences

### NMCVT-4657-C - Generic command sequence - I

"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 second up to fifth character is ~~"element command sequence" identifier \(IDCH034F - refer to NMCVT-4657-C\).~~](#)
  - [From sixth up to eighth character is "generic position" identifier \(IDIN03F - refer to NMCVT-4081-C\).](#)
- [Be unique.](#)

For instance : [G/S/012/000](#), [G/S/ABC/000](#), [G/S/999/000](#), [G/S/025/000](#)

**NMCVT-~~4657~~4659-C - Element command sequence** - I

"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-4672-C - Subsystem command sequence** - I

"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-4657-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-4674-C - Model command sequence** - I

"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-4675-C - Subsystem command sequence definition** - I

"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 sixth character is IDCH03F,

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- 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/012/108", "A/S/ABC/109", "Y/S/999/987", "H/S/025/238"*

## **NMCVT-4476-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/S012/990", "Z/SABC/999", "Z/S999/999", "Z/S025/995"*

## 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.
- Be unique for one instrument.

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

### **NMCVTHPSDB-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" 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"*

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**NMCVT~~HPSDB~~-46774679-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~~HPSDB~~-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" number (IDIN02F - refer to NMCVT-4081b-C),
- From third up to sixth character is "element command verification stage " identifier (IDIN04F- refer to NMCVT-4677-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~~HPSDB~~-4687-C** - Subsystem command verification stage definition -

I

" Subsystem command verification stage definition" identifier shall :

- Be of IDIN~~09F08F~~ 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,



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

*For instance : "01/0000/108", "01/0123/109", "25/9999/989", "08/0025/238"*

## 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 : "26/0000/990", "26/0123/999", "26/9999/998", "26/0025/995"*

## NMCVT-4690-C - Deleted

### 4.6 1553 messages

## NMCVT-4702-C - Generic 1553 status word - I

"Generic 1553 status word" identifier shall

- be of IDCH13F subtype with the following limitations :
  - From first up to third character is "generic" number (IDIN03F - refer to NMCVT-40403085-C).
  - From fourth up to seventh character is "BUSW" (to refer to 1553 status word).
  - Eighth character is "1" for CDMU 1553 bus, "2" for ACC 1553 bus.
  - From ninth up to tenth character is IDIN02F (sub address).
  - From eleventh up to thirteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C).
- Be unique.

*For instance : "000/BUSW/1/01/000", "000/BUSW/2/31/000", "000/BUSW/2/25/000"*

## NMCVT-4705-C - Generic 1553 command word - I

"1553 message command word" identifier shall

- be of ~~IDCH10F~~IDCH14F subtype with the following limitations :
  - From first up to third ~~First~~ character is ~~"generic subsystemelement" identifier number (IDCH01FIDIN03F-~~ refer to NMCVT-~~4081a~~40403085-C),

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~~? Second character is "X",~~

- From ~~third-fourth~~ up to ~~sevensixth~~ character is "BUCW" (to refer to 1553 command word),
- From ~~eighth-seventh~~ up to ~~eighth-ninth~~ character is IDIN02F (RT address),
- From ~~tenth-ninth~~ up to ~~tenth-eleventh~~ character is IDIN02F (Sub address),
- From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to [NMCVT-4081-C](#)).

Be unique.

For instance : "~~G/X000~~/BUCW/01/01/~~000~~", "~~000G/X~~/BUCW/31/31/~~000~~", "~~000G/X~~/BUCW/25/25/~~000~~"

## NMCVT-4711-C - Generic 1553 message - I

"Generic 1553 message" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to third character is " generic element" number (IDCH01F- refer to [NMCVT-4081a-C](#)).
  - From fourth up to seventh character is "BUMG" (to refer to 1553 message).
  - Eighth character is IDCH01F ("A" for Acquisition, "C" for Command).
  - From ninth up to eleventh is IDIN03F.
  - From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to [NMCVT-4081c-C](#)).
- Be unique.

For instance : "000/BUMG/A/012/000", "000/BUMG/C/999/000", "000/BUMG/C/025/000"

## NMCVT-4713-C - Generic 1553 acquisition command link - I

"Generic 1553 acquisition command link" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to third character is " generic element" number (IDCH01F- refer to [NMCVT-4081a-C](#)).
  - From fourth up to seventh character is "BULK" (to refer to 1553 message).
  - 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/BULK/0012/000", "000/BULK/9999/000", "000/BULK/0025/000"

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## NMCVT-47154-C - Generic 1553 structure - |

"Generic 1553 structure" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to third character is "generic element" number (IDCH01F- refer to NMCVT-4081a-C).
  - From fourth up to seventh character is "BUST" (to refer to 1553 structure).
  - Eighth character is IDCH01F ("A" for Acquisition, "C" for Command).
  - From ninth up to eleventh is IDIN03F.
  - From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C).
- Be unique.

For instance : "000/BUST/A/012/000", "000/BUST/C/999/000", "000/BUST/C/025/000"

## NMCVT-47176-C - Generic 1553 message group - |

"Generic 1553 message group" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to third character is "generic element" number (IDCH01F- refer to NMCVT-4081a-C).
  - From fourth up to seventh character is "BUGR" (to refer to 1553 message group).
  - Eighth character is IDCH01F ("A" for Acquisition, "C" for Command).
  - From ninth up to eleventh is IDIN03F.
  - From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C).
- Be unique.

For instance : "000/BUGR/A/012/000", "000/BUGR/C/999/000", "000/BUGR/C/025/000"

## NMCVT-4720-C - Element 1553 status word - |

"Element 1553 status word" identifier shall

- be of IDCH10F 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 "BUSW" (to refer to 1553 status word),
  - Eighth character is "1" for CDMU 1553 bus, "2" for ACC 1553 bus,
  - From ninth up to tenth character is IDIN02F (sub address),
- Be unique for an "element".

For instance : "012/BUSW/1/01", "987/BUSW/2/31", "025/BUSW/2/25"

**NMCVT-4725-C - Deleted****NMCVT-4726-C - Element 1553 command word - I**

"Element 1553 message command word" identifier shall

– be of IDCH11F subtype with the following limitations :

- From first up to third character is "element" number (IDCH01F- refer to NMCVT-4081a-C).
- From fourth up to seventh character is "BUCW" (to refer to 1553 command word).
- From eighth up to ninth character is IDIN02F (RT address).
- From tenth up to eleventh character is IDIN02F (Sub address).

Be unique for an "element".

For instance : "012/BUCW/01/01", "587/BUCW/31/31", "025/BUCW/25/25"

**NMCVT-4730-C - Element 1553 message - I**

"Element 1553 message" 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 "BUMG" (to refer to 1553 message),
- Eighth character is IDCH01F ("A" for Acquisition, "C" for Command),
- From ninth up to eleventh is IDIN03F,

– Be unique for an "element".

*For instance : "012/BUMG/A/012", "987/BUMG/C/999", "025/BUMG/C/025"*

**NMCVT-4752-C - Element 1553 acquisition command link - I**

"Element 1553 acquisition command link" 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 "BULK" (to refer to 1553 message).
- From eighth up to eleventh is IDIN04F.

– Be unique for an "element".

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

**NMCVT-4760-C - Element 1553 structure**

"Element 1553 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 "BUST" (to refer to 1553 structure),
  - Eighth character is IDCH01F ("A" for Acquisition, "C" for Command),
  - From ninth up to eleventh is IDIN03F,
- Be unique for an "element".

*For instance : "012/BUST/A/012", "987/BUST/C/999", "025/BUST/C/025"*

**NMCVT-4774-C - Element 1553 message group**

"Element 1553 message 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 "BUGR" (to refer to 1553 group),
  - Eighth character is IDCH01F ("A" for Acquisition, "C" for command),
  - From ninth up to eleventh character is IDIN03F,
- Be unique for an "element".

*For instance : "012/BUGR/A/012", "987/BUGR/C/999", "025/BUGR/C/025"*

**NMCVT-4777-C - Subsystem 1553 status word**

"Subsystem 1553 status word" identifier shall :

- Be of IDCH13F subtype with the following limitations :
  - From first up to tenth character is "element 1553 status word" identifier (IDCH10F - refer to NMCVT-4720-C)
  - From eleventh up to thirteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

*For instance : "012BUSW101/012", "987BUSW231/987", "025BUSW225/025"*

**NMCVT-4780-C - Subsystem 1553 message**

"Subsystem 1553 message" identifier shall :

- Be of IDCH14F subtype with the following limitations :

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- From first up to eleventh character is "element 1553 message" identifier (IDCH11F - refer to NMCVT-4730-C)
- From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

*For instance : "012BUMGA012/012", "987BUMGC999/987", "025MUMGC025/025"*

## NMCVT-4791-C - Subsystem 1553 command word - I

"Subsystem 1553 command word " identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to eleventh character is "element 1553 command word" identifier (IDCH11F - refer to NMCVT-4730-C)
  - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C).
- Be unique for a "subsystem".

*For instance : "012BUCW0101/012", "587BUCW3131/987", "025BUCW2525/025"*

## NMCVT-4795-C - Subsystem 1553 acquisition command link - I

"Subsystem 1553 acquisition command link " identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to eleventh character is "element 1553 acquisition command link" identifier (IDCH11F - refer to NMCVT-4730-C)
  - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C).
- Be unique for a "subsystem".

*For instance : "012BULK0101/012", "587BULK9999/987", "025BULK2525/025"*

## NMCVT-4800-C - Subsystem 1553 structure - I

"Subsystem 1553 structure" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to eleventh character is "element 1553 structure" identifier (IDCH11F - refer to NMCVT-4760-C),
  - From twelfth character up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

*For instance : "012BUSTA012/012", "987BUSTC999/987", "025BUMGC025/025"*

**NMCSV-4820-C - Subsystem 1553 message group - I**

"Subsystem 1553 message group" identifier shall :

- Be of IDCH14F subtype with the following limitation :
  - From first up to eleventh character is "element 1553 message group" identifier (IDCH11F - refer to NMCSV-4774-C),
  - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCSV-4081c-C),
- Be unique for a "subsystem".

For instance : "012BUGRA012/012", "987BUGRC999/987", "025BUGRC025/025"

**NMCSV-4838-C - Model 1553 message item - I**

"Model 1553 message item" identifier shall :

- Be identical to corresponding "subsystem 1553 message item" identifier.

For instance : "012BUSW101/012", "012/BUMGA012/012", "~~"025BULK2525/025"~~", "012BUSTA012/012", "012BUGRA012/012"

Notes :

1. 1553 message item can be :
  - 1.1. 1553 status word,
  - 1.2. [1553 command word](#),
  - ~~1.2.1.3.~~ 1553 message,
  - ~~1.4.~~ [1553 acquisition command link](#),
  - ~~1.3.1.5.~~ 1553 structure,
  - ~~1.4.1.6.~~ 1553 message group.

**NMCSV-4839-C - Subsystem 1553 status word definition - I**

"Subsystem 1553 status word definition" identifier shall :

- Be of IDCH13F subtype with the following limitations :
  - From first up to third character is "subsystem pseudo element" number (IDIN03F - refer to NMCSV-4040-C),
  - From fourth up to seventh character is "BUSW" (to refer to 1553 status word),
  - Eighth character is "1" for CDMU 1553 bus, "2" for ACC 1553 bus,
  - From ninth up to tenth character is IDIN02F (sub address),
  - From eleventh up to thirteenth character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCSV-4081c-C),
- Be unique for a "subsystem".

For instance : "108/BUSW/1/01/109", "988/BUSW/2/31/989", "238/BUSW/2/25/289"

## NMCVT-4840-C - Subsystem 1553 message definition - I

"Subsystem 1553 message 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 "BUMG" (to refer to 1553 message),
  - Eighth character is IDCH01F ("A" for Acquisition, "C" for Command),
  - From ninth up to eleventh 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 : "108/BUMG/A/012/109", "988/BUMG/C/999/989", "238/BUMG/C/025/289"*

## NMCVT-4841-C - Subsystem 1553 command word definition - I

"Subsystem 1553 message command word definition" identifier shall

- be of IDCH140F 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 "BUCW" (to refer to 1553 command word).
  - From eighth up to ninth character is IDIN02F (RT address).
  - From tenth up to eleventh character is IDIN02F (Sub address).
  - From twelfth up to fourteenth character is " subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081-C).
- Be unique for a "subsystem".

*For instance : "108/BUCW/01/01/108", "158/BUCW/31/31/159", "990/BUCW/25/25/999"*

## NMCVT-4845-C - Subsystem 1553 acquisition command link definition - I

"Subsystem 1553 acquisition command link 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 "BULK" (to refer to 1553 structure).
  - From eighth up to eleventh 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 : "108/BULK/0012/109", "988/BULK/9999/989", "238/BULK/2525/289"

## **NMCVT-4850-C - Subsystem 1553 structure definition - I**

"Subsystem 1553 message 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 "BUST" (to refer to 1553 structure),
  - Eighth character is IDCH01F ("A" for Acquisition, "C" for Command),
  - From ninth up to eleventh 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 : "108/BUST/A/012/109", "988/BUST/C/999/989", "238/BUST/C/025/289"*

## **NMCVT-4855-C - Subsystem 1553 message group definition - I**

"Subsystem 1553 message 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 "BUGR" (to refer to 1553 group),
  - Eighth character is IDCH01F ("A" for Acquisition, "C" for command),
  - 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 : "108/BUGR/A/012/109", "988/BUGR/C/999/989", "238/BUGR/C/025/289"*

## **NMCVT-4865-C - Model 1553 message item definition - I**

"Model 1553 message item definition" identifier shall :

- Be identical to corresponding "subsystem 1553 message item definition" identifier replacing "subsystem pseudo position / element" by "system pseudo position / element",

- Be unique for a "model".

For instance : "990/BUSW/1/01/990", "999/BUMG/A/012/998", ""238/BULK/2525/289"", "997/BUST/C/012/996", "995/BUGR/C/012/994"

Notes :

1. 1553 message item can be :
  - 1.1. 1553 status word,
  - 1.2. 1553 command word.
  - ~~1.2.1.3.~~ 1553 message,
  - 1.4. 1553 acquisition command link.
  - ~~1.3.1.5.~~ 1553 structure,
  - ~~1.4.1.6.~~ 1553 message group.

## 4.7 OBDH interfaces

### NMCVT-4961-C - Generic OBDH interrogation - I

"Generic element OBDH interrogation" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to third character is "generic element" number (IDIN03F - refer to NMCVT-40403085-C).
  - from fourth up to seventh character is "DHIN" (to refer to OBDH interrogation).
  - Eighth character is IDCH01F ("C" for Command).
  - From ninth up to eleventh character IDIN03F.
  - From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C).
- Be unique.

For instance : "000/DHIN/C/012/000", "000/DHIN/C/999/000", "000/DHIN/C/025/000"

### NMCVT-4963-C - Generic OBDH acquisition command link - I

"Generic element OBDH acquisition command link" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to third character is "generic element" number (IDIN03F - refer to NMCVT-3085-C).
  - from fourth up to seventh character is "DHLK" (to refer to OBDH interrogation).
  - From eighth up to eleventh character IDIN04F.
  - From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C).
- Be unique.

For instance : "000/DHLK/0012/000", "000/DHLK/9999/000", "000/DHLK/2525/000"

## NMCVT-49654-C - Generic OBDH interrogation group - I

"Generic element OBDH interrogation 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-40403085-C).
  - from fourth up to seventh character is "DHGR" (to refer to OBDH interrogation).
  - Eighth character is IDCH01F ("C" for Command).
  - From ninth up to eleventh character IDIN03F.
  - From twelfth up to fourteenth character is "generic position" identifier (IDIN03F - refer to NMCVT-4081c-C).
- Be unique

For instance : "000/DHGR/C/012/000", "000/DHGR/C/999/000", "000/DHGR/C/025/000"

## NMCVT-4974-C - Element OBDH interrogation - I

"Element OBDH interrogation" 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 "DHIN" (to refer to OBDH interrogation),
  - Eighth character is IDCH01F ("C" for Command),
  - From ninth up to eleventh character IDIN03F,
- Be unique for an "element".

For instance : "012/DHIN/C/012", "987/DHIN/C/999", "025/DHIN/C/025"

## NMCVT-4977-C - Element OBDH acquisition command link - I

"Element OBDH acquisition command link" 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 "DHLK" (to refer to OBDH interrogation).
  - From eighth up to eleventh character IDIN04F.
- Be unique for an "element".

For instance : "012/DHLK/0012", "987/DHLK/9999", "025/DHLK/2525"

**NMCVT-4990-C - Element OBDH interrogation group - I**

"Element OBDH interrogation 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 "DHGR" (to refer to OBDH group),
  - Eighth character is IDCH01F ("C" for command),
  - From ninth up to eleventh character is IDIN03F,
- Be unique for an "element".

*For instance : "012/DHGR/C/012", "987/DHGR/C/999", "025/DHGR/C/025"*

**NMCVT-5020-C - Subsystem OBDH interrogation - I**

"Subsystem OBDH interrogation" identifier shall :

- Be of IDIN14F subtype with the following limitations :
  - From first up to eleventh character is "element OBDH interrogation" identifier (IDCH11F - refer to NMCVT-4974-C),
  - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

*For instance : "012DHINC012/012", "987DHINC999/987", "025DHINC025/025"*

**NMCVT-5040-C - Subsystem OBDH acquisition command link - I**

"Subsystem OBDH acquisition command link" identifier shall :

- Be of IDIN14F subtype with the following limitations :
  - From first up to eleventh character is "element OBDH acquisition command link" identifier (IDCH11F - refer to NMCVT-4974-C),
  - From twelfth up to fourteenth character is "position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

*For instance : "012DHLK0012/012", "987DHLK9999/987", "025DHLK2525/025"*

**NMCVT-5044-C - Subsystem OBDH interrogation group - I**

"subsystem OBDH interrogation group" identifier shall :

- Be of IDCH14F subtype with the following limitation :
  - From first up to eleventh character is "element OBDH interrogation group" identifier (IDCH11F - refer to NMCVT-4990-C),

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

For instance : "012DHGRC012/012", "987DHGRC999/987", "025DHGRC025/025"

## **NMCVT-5048-C - Model OBDH interrogation item - I**

"Model OBDH interrogation item" identifier shall :

- Be identical to corresponding "subsystem OBDH interrogation item" identifier.

For instance : "012DHINC012/012", "025DHLK2525/025", "012DHGRC012/012"

Notes :

1. OBDH interrogation item can be :
  - 1.1. OBDH interrogation,
  - 1.2. OBDH acquisition command link,
  - 1.2.1.3. OBDH interrogation group.

## **NMCVT-5060-C - subsystem OBDH interrogation definition - I**

"Subsystem OBDH interrogation definition" identifier shall :

- Be of IDIN14F 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 "DHIN" (to refer to OBDH interrogation),
  - Eighth character is IDCH01F ("C" for Command),
  - From ninth up to eleventh character IDIN03F,
  - From ~~eighth-twelfth~~ up to ~~fourteenth~~<sup>eleventh</sup> character is "subsystem pseudo position" identifier (IDIN03F - refer to NMCVT-4081c-C),
- Be unique for a "subsystem".

For instance : "108/DHIN/C/012/109", "988/DHIN/C/999/989", "238/DHIN/C/025/289"

## **NMCVT-5070-C - Subsystem OBDH acquisition command link definition- I**

"Subsystem OBDH acquisition command link definition" identifier shall :

- Be of IDIN14F 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 "DHLK" (to refer to OBDH interrogation).
  - From eighth up to eleventh character 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 : "108/DHLK0012/109", "988/DHLK/9999/989", "238/DHLK/2525/289"

## **NMCVT-5080-C - Subsystem OBDH interrogation group definition - I**

"Subsystem OBDH interrogation 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 "DHGR" (to refer to OBDH group),
  - Eighth character is IDCH01F ("C" for command),
  - 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 : "108/DHGR/C/012/109", "988/DHGR/C/999/989", "238/DHGR/C/025/289"*

## **NMCVT-5088-C - Model OBDH interrogation item definition - I**

"Model OBDH interrogation item definition" identifier shall :

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

*For instance : "990/DHIN/C/012/999", ""238/DHLK/2525/289"", "991/DHGR/C/012/998"*

Notes :

1. OBDH interrogation item can be :
  - 1.1. OBDH interrogation,
  - 1.2. OBDH acquisition command link.
  - 1.2.1.3. OBDH interrogation group.

## 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,
  - 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-40403085-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"*

**NMCVT-5110-C - Element parameter - I**

"Element parameter" identifier shall :

- Be of IDCH04F subtype with the following limitations :
  - First character is IDE201F,
  - From second up to fourth character is IDCH03F,
- Be unique for 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*

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## **NMCVT-5120-C - Calibration set order - I**

"Calibration set order" shall :

- Be of IDIN02F subtype,
- Be unique for a "parameter".

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

*Notes :*

*Used to instantiate real curve identifier.*

## **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*

## **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),



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- Second character is IDE201F,
  - 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/108", "Y/D/999/989", "Y/U/025/988"*

*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", "238/PAGR/0025/289"*

## **NMCVT-5201-C - Generic parameter set - I**

"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 - I**

"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 - I**

"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 - 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 "T",
  - 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/108", "Y/T/999/989", "Y/T/025/988"

## 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"

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## **NMCVT-5227-C - Subsystem parameter value set definition - I**

"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/108", "Y/V/999/989", "Y/V/025/988"*

## **NMCVT-5245-Instruments-C - Instrument parameter range set - I**

For instruments only, the parameter range set identifier shall :

- Be of IDIN03F subtype.
- Be unique for one instrument.

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

## **NMCVT-5245-C - Generic parameter range set - I**

"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 IDCH03F.
  - 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**

"Element parameter range set" identifier shall :

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

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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 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/R/012/109", "A/R/ABC/108", "Y/R/999/989", "Y/R/025/988"

## 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", "~~"012PAGR0012/012"~~", "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/M012/990", ~~"990PACR0012/999"~~, "Z/T012/995", "Z/V012/994", "Z/R012/993"

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.
- 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.

**NMCVT-5355-C - Generic curve - I**

"Generic curve" identifier shall :

- Be of ~~IDCH06F~~~~IDCH08F~~ subtype with the following limitations :

- ~~From first up to third character is generic element number (IDCH03F - refer to NMCVT-3085-C).~~
- ~~From fourth up to sixth character is IDIN03F.~~
- ? ~~First character is "generic subsystem" identifier (IDCH01F - refer to NMCVT 4081a C),~~
- ? ~~Second character is "H",~~
- ? ~~From third up to fifth character is IDCH03F,~~
- ? ~~From sixth up to eighth character is "generic position identifier" (IDIN03F - refer to NMCVT 4081c C),~~

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– Be unique.

*For instance : ~~"000/012", "000/999", "000/125"-G/H/012/000", "G/H/ABC/000", "G/H/999/0000", "G/H/025/000"~~*

**NMCVT-5360-C - Theoretical element curve - I**

"Theoretical 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 a "theoretical element".

*For instance : "012/012", "998/998", "025/025", "107/863", "108/762", "109/453", "999/326"*

**NMCVT-5365-C - Real element curve (Conditional) - I**

Conditional "Real element curve" identifier shall :

- Be of IDCH06F subtype with the following limitations :
  - From first up to fourth character is "element parameter" identifier (IDCH04F - refer to requirement NMCVT-5110-C),
  - From fifth to sixth character is calibration set order (IDIN02F - refer to NMCVT-5120-C),
- Be unique for a "real element".

*For instance : "M012/01", "PABC/50", "D999/99", "U025/25"*

**NMCVT-5365a-C - Real element curve (Default) - I**

Default "Real element curve" identifier shall :

- Be of IDCH04F subtype with the following limitations :
  - From first up to fourth character is "element parameter" identifier (IDCH04F - refer to requirement NMCVT-5110-C).
- Be unique for a "real element".

*For instance : "M012", "PABC", "D999", "U025"*

*Notes:*

*~~In case of "default calibration curve" the "real element curve" identifier is IDCH04F (equals to element parameter identifier)~~*

**NMCVT-5367-C - Theoretical subsystem curve - I**

"Theoretical subsystem curve" identifier shall :

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

*For instance : "109/012", "989/999", "988/500"*

**NMCVT-5368-C - Real subsystem curve (conditional) - I**

Conditional "Real subsystem curve" identifier shall :

- Be of IDCH10F subtype with the following limitations :
  - From first up to eighth character is "subsystem parameter" identifier (IDCH08F - refer to requirement NMCVT-5130-C),
  - From ninth to tenth character is calibration set order (IDIN02F - refer to NMCVT-5120-C),
- Be unique for a "real subsystem".

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

**NMCVT-5368a-C - Real subsystem curve (Default) - I**

Default "Real subsystem curve" identifier shall :

- Be of IDCH08F subtype with the following limitations :
  - From first up to eighth character is "subsystem parameter" identifier (IDCH08F - refer to requirement NMCVT-5130-C).
- Be unique for a "real subsystem".

*For instance : "AM012012", "APABC012", "YD999987", "HU025190"*

*Notes :*

*In case of "default calibration curve" the "real subsystem curve" identifier is IDCH08F (equals to subsystem parameter identifier)*

**NMCVT-5370-C - Theoretical model curve - I**

"Theoretical model curve" identifier shall :

- Be of IDIN06F subtype with the following limitations :
  - From first up to third character is "system pseudo element" number (IDIN03F - refer to requirement NMCVT-4040-C),



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- From fourth to sixth character is IDIN03F,
- Be unique for a "theoretical model".

*For instance : "990/012", "999/999", "995/500"*

## **NMCVT-5375-C - Real model curve (conditional)**

Conditional "Real model curve" identifier shall :

- Be of IDCH10F subtype with the following limitations :
  - From first up to eighth character is "model parameter" identifier (IDCH08F - refer to requirement NMCVT-5130-C),
  - From ninth to tenth character is calibration set order (IDIN02F - refer to NMCVT-5120-C),
- Be unique for a "real model".

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

## **NMCVT-5375a-C - Real model curve (conditional)**

Conditional "Real model curve" identifier shall :

- Be of IDCH10F subtype with the following limitations :
  - From first up to eighth character is "model parameter" identifier (IDCH08F - refer to requirement NMCVT-5130-C).
- Be unique for a "real model".

*For instance : "AM012012", "APABC012", "YD999987", "HU025190"*

*Notes :*

*~~In case of "default calibration curve" the "real model curve" identifier is IDCH08F (equals to model parameter identifier)~~*

## 4.10 Displays

### **NMCVT-6040-C - Generic alphanumeric display**

" Generic alphanumeric display " identifier shall :

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

## 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.

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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**

## **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"

**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/~~W~~AABC/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/~~W~~AABC/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/108", "Y/A/999/989", "Y/A/025/988"*

## **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".

*For instance : "A/G/012/109", "A/G/ABC/108", "Y/G/999/989", "Y/G/025/988"*

## **NMCVT-6200-C - Subsystem scrolling display definition - I**

"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/108", "Y/L/999/989", "Y/L/025/988"*

## **NMCVT-6205-C - Subsystem variable SCOS packet display definition - I**

"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/108", "Y/W/999/989", "Y/W/025/988"

## 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/012/990", "Z/G/ABC/999", "Z/L/999/995"*

Notes :

1. *Display item can be :*
  - 1.1. *Alphanumeric display,*
  - 1.2. *Graphic display,*
  - 1.3. *Scrolling display.*
  - 1.4. *Variable SCOS packet display.*

## 4.11 Constants

### NMCVT-6305-C - Generic constant - I

" 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,
- Be unique.

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

### NMCVT-6310-C - Element constant - I

" 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".

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

## NMCVT-6330-C - Subsystem constant - I

"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"

## NMCVT-6341-C - Model constant - I

"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 - I

"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/999/238"

## NMCVT-6360-C - Model constant definition - I

"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/012/990", "Z/K/ABC/999", "Z/K/999/995"

## 4.12 Reason of change

### NMCVT-6370-C - Generic reason of change - I

"Generic reason of change" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to second character is "generic site" identifier (IDIN02F - refer to NMCVT-xxxx-C).
  - From third up to sixth character is "RSCH".
  - From seventh up to eleventh character is IDIN05F.
  - From twelfth up to fourteenth is "generic position" identifier (IDIN03F- refer to NMCVT-4081c-C).
- Be unique.

For instance : 00/RSCH/01234/000", "00/RSCH/99999/000"

### NMCVT-6374-C - Element reason of change - I

"Element reason of change" identifier shall :

- Be of IDCH11F subtype with the following limitations :
  - From first up to second character is "site" identifier (IDIN02F - refer to NMCVT-xxxx-C).
  - From third up to sixth character is "RSCH".
  - From seventh up to eleventh character is IDIN05F.
- Be unique for an "element".

For instance : 01/RSCH/01234", "06/RSCH/99999"

### NMCVT-6378-C - Subsystem reason of change - I

"Subsystem reason of change" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to eleventh character is "element reason of change" identifier (IDCH11F - refer to NMCVT-6374-C).
  - From twelfth up to fourteenth character is "position" identifier (IDIN03F- refer to NMCVT-4081c-C).
- Be unique for a " subsystem ".

For instance : "01/RSCH/01234/012", "06/RSCH/99999/987"



**NMCVT-6382-C - Model reason of change - |**

" Model reason of change " identifier shall :

- Be identical to corresponding "subsystem reason of change " identifier.

For instance : "01/RSCH/01234/012", "06/RSCH/99999/987"

**NMCVT-6384-C - Subsystem reason of change definition - |**

" Subsystem reason of change definition" identifier shall :

- Be of IDCH14F subtype with the following limitations :
  - From first up to second character is "site" identifier (IDIN02F - refer to NMCVT-xxxx-C).
  - From third up to sixth character is "RSCH".
  - From seventh up to eleventh character is IDIN05F.
  - From twelfth up to fourteenth is "generic position" identifier (IDIN03F- refer to NMCVT-4081c-C).

Be unique for a "subsystem".

For instance : "01/RSCH/01234/108", "06/RSCH/99999/989"

**NMCVT-6386-C - Model reason of change definition - |**

" Model reason of change definition" identifier shall :

- Be identical to corresponding "subsystem reason of change definition" identifier replacing "subsystem pseudo position" by "system pseudo position" and "subsystem identifier" by "pseudo subsystem identifier".

Be unique for a "model".

For instance : "01/RSCH/01234/108", "06/RSCH/99999/989"

## 4.13 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 - |**

The site identifier allocation shall be done as follows :

<u>Site name</u>	<u>Identifier</u>
<u>Generic</u>	<u>00</u>
<u>Central</u>	<u>01</u>
<u>AVM</u>	<u>02</u>

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H-SVM 03

P-SVM 04

H-EQM 05

P-CQM 06

H-ACMS 07

P-ACMS 08

ISVV 09

ESOC 10

## 5. DETAIL ALLOCATION REQUIREMENTS

### 5.1 Models

<b>NMCVT-7500-C</b>	-	<b>Model identifiers allocation</b>	-	
The model identifiers allocation shall be as follows :				
TBW				

### 5.2 Subsystems

<b>NMCVT-7500-C</b>	-	<b>Subsystem identifiers allocation</b>	-	
The subsystem identifiers allocation shall be as follows :				
Subsystem type	Subsystem number	Herschel	Planck	
- "A"	01	ACMS	ACMS	
- "B"	02	ACC software	ACC software	
- "C"	03	RCS	RCS	
- "D"	04	CDMS	CDMS	
- "E"	05	CDMS software	CDMS software	
<del>?"F"</del>	<del>06</del>	<del>Frame structure</del>	<del>Frame structure</del>	
- "G"	07	Generic	Generic	
- "H"	08	HIFI	HFI	
<del>?"J"</del>	<del>10</del>	<del>System</del>	<del>System</del>	
- "K"	11	Kryo	<del>Spare</del> FOG (TBC)	
- "L"	12	Spare	LFI	
- "M"	13	Radiation monitor	Radiation monitor	
- "N"	14	Spare	Spare	
- "P"	16	PACS	Spare	
- "R" (TT&C)	18	Radio frequency (TT&C)	Radio frequency	
- "S"	19	SPIRE	Sorption cooler	
- "T"	20	Thermal control	Thermal control	
- "U"	21	Spare	Spare	
- "V"	22	Visual monitor camera	Visual monitor camera	

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- "W"	23	Electrical power	Electrical power
- "X"	24	STR software	Spare
- "Y"	25	EGSE	EGSE
- "Z"	26	Pseudo	Pseudo

## 5.3 Theoretical elements

The following list has to be completed.

~~NMCGVT 7510-C Theoretical element allocation~~

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

<del>Theoretical element identifier</del>	<del>Theoretical element number</del>	<del>Number of elements</del>	<del>Herschel</del>	<del>Planck</del>	<del>Subsystem</del>
<del>?Generic</del>	<del>[000]</del>				<del>G</del>
<del>? "ACC"</del>	<del>[001-009]</del>	<del>1</del>	<del>1</del>		<del>A</del>
<del>? "GYRO"</del>	<del>[010-019]</del>	<del>1</del>	<del>0</del>		<del>A</del>
<del>? "STR"</del>	<del>[020-029]</del>	<del>2</del>	<del>0</del>		<del>A</del>
<del>? "RWE"</del>	<del>[030-039]</del>	<del>1</del>	<del>0</del>		<del>A</del>
<del>? "RW"</del>	<del>[040-049]</del>	<del>4</del>	<del>0</del>		<del>A</del>
<del>? "SAS H"</del>	<del>[050-059]</del>	<del>2</del>	<del>0</del>		<del>A</del>
<del>? "FSS"</del>	<del>[060-069]</del>	<del>2</del>	<del>0</del>		<del>A</del>
<del>? "QRS"</del>	<del>[070-079]</del>	<del>2</del>	<del>2</del>		<del>A</del>
<del>? "STR_MAPPER"</del>	<del>[080-089]</del>	<del>0</del>	<del>1</del>		<del>A</del>
<del>? "AAD"</del>	<del>[090-099]</del>	<del>0</del>	<del>1</del>		<del>A</del>
<del>? "SAS P"</del>	<del>[100-107]</del>	<del>0</del>	<del>3</del>		<del>A</del>
<del>? "A_PSEUDO"</del>	<del>[108,109]</del>	<del>1</del>	<del>1</del>		<del>A</del>
<del>? "ACC_SW_H"</del>	<del>[110-117]</del>	<del>1</del>	<del>0</del>		<del>B</del>
<del>? "ACC_SW_P"</del>	<del>[120-127]</del>	<del>0</del>	<del>1</del>		<del>B</del>
<del>? "B_PSEUDO"</del>	<del>[118,119]U</del>	<del>1</del>	<del>1</del>		<del>B</del>
	<del>[128,129]</del>				

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<del>? "RCS_H"</del>	<del>[130 137]</del>	<del>1</del>	<del>0</del>	<del>G</del>
<del>? "RCS_P"</del>	<del>[140 147]</del>	<del>0</del>	<del>1</del>	<del>G</del>
<del>? "C_PSEUDO"</del>	<del>[138, 139] U</del>	<del>1</del>	<del>1</del>	<del>G</del>
<del>_____</del>	<del>[148, 149]</del>			
<del>? "CDMU"</del>	<del>[150 157]</del>	<del>1</del>	<del>1</del>	<del>D</del>
<del>? "D_PSEUDO"</del>	<del>[158, 159]</del>	<del>1</del>	<del>1</del>	<del>D</del>
<del>? "CDMU_SW_H"</del>	<del>[160 167]</del>	<del>1</del>	<del>0</del>	<del>E</del>
<del>? "CDMU_SW_P"</del>	<del>[170 177]</del>	<del>0</del>	<del>1</del>	<del>E</del>
<del>? "E_PSEUDO"</del>	<del>[168, 169] U</del>	<del>1</del>	<del>1</del>	<del>E</del>
<del>_____</del>	<del>[178, 179]</del>			
<del>? "FRAME_STR"</del>	<del>[180 187]</del>	<del>TBD</del>	<del>TBD</del>	<del>F</del>
<del>? "F_PSEUDO"</del>	<del>[188, 189]</del>	<del>1</del>	<del>1</del>	<del>F</del>
<del>? "HIFI"</del>	<del>[190 237]</del>	<del>1</del>	<del>0</del>	<del>H</del>
<del>? "HFI"</del>	<del>[240 287]</del>	<del>0</del>	<del>1</del>	<del>H</del>
<del>? "H_PSEUDO"</del>	<del>[238, 239] U</del>	<del>1</del>	<del>1</del>	<del>H</del>
<del>_____</del>	<del>[288, 289]</del>			
<del>? "SYSTEM"</del>	<del>[290 297]</del>	<del>TBD</del>	<del>TBD</del>	<del>J</del>
<del>? "J_PSEUDO"</del>	<del>[298, 299]</del>	<del>1</del>	<del>1</del>	<del>J</del>
<del>? "CRYO_ELEC"</del>	<del>[300 309]</del>	<del>1</del>	<del>0</del>	<del>K</del>
<del>? "CRYOSTAT"</del>	<del>[310 317]</del>	<del>1</del>	<del>0</del>	<del>K</del>
<del>? "K_PSEUDO"</del>	<del>[318, 319]</del>	<del>1</del>	<del>1</del>	<del>K</del>
<del>? "LFI"</del>	<del>[320 367]</del>	<del>0</del>	<del>1</del>	<del>L</del>
<del>? "L_PSEUDO"</del>	<del>[368, 369]</del>	<del>1</del>	<del>1</del>	<del>L</del>
<del>? "RAD_MON"</del>	<del>[370 377]</del>	<del>TBD</del>	<del>TBD</del>	<del>M</del>
<del>? "M_PSEUDO"</del>	<del>[378, 379]</del>	<del>1</del>	<del>1</del>	<del>M</del>
<del>? "PACS"</del>	<del>[380 427]</del>	<del>1</del>	<del>0</del>	<del>P</del>
<del>? "P_PSEUDO"</del>	<del>[428, 429]</del>	<del>1</del>	<del>1</del>	<del>P</del>
<del>? "LGA"</del>	<del>[430 439]</del>	<del>2</del>	<del>3</del>	<del>R</del>
<del>? "MGA"</del>	<del>[440 449]</del>	<del>1</del>	<del>1</del>	<del>R</del>
<del>? "RFDN"</del>	<del>[450 459]</del>	<del>1</del>	<del>1</del>	<del>R</del>
<del>? "TWTA"</del>	<del>[460 469]</del>	<del>2</del>	<del>2</del>	<del>R</del>
<del>? "TRSP"</del>	<del>[470 477]</del>	<del>2</del>	<del>2</del>	<del>R</del>
<del>? "R_PSEUDO"</del>	<del>[478, 479]</del>	<del>1</del>	<del>1</del>	<del>R</del>
<del>? "SPIRE"</del>	<del>[480 527]</del>	<del>1</del>	<del>0</del>	<del>S</del>

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? "SRP_COOLER"	[530-557]	0	1	S
? "S_PSEUDO"	[528, 529] U	1	1	S
	[558, 559]			
? "THERMAL_H"	[600-747]	1	0	T
? "THERMAL_P"	[750-897]	0	1	T
? "T_PSEUDO"	[748, 749]	1	1	T
	[898, 899]			
? "VISUAL_MON"	[560-562]	TBD	TBD	V
? "V_PSEUDO"	[563, 564]	1	1	V
? "PCDU"	[565-569]	1	1	W
? "BATTERY"	[570-574]	1	1	W
? "SOLAR_AR_H"	[575-579]	1	1	W
? "SOLAR_AR_P"	[580-582]	0	1	W
? "W_PSEUDO"	[583, 584]	1	1	W
? "STR_SW"	[585-587]	1	0	X
? "X_PSEUDO"	[588, 589]	1	1	X
? EGSE	[900-987]	1	1	Y "PSEUDO"
		1	1	Z [990-999]

## 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"	[108,109]
- B	[110-117] U [120-127]
- "B PSEUDO"	[118, 119] U [128,129]
- C	[130-137] U [140-147]
- "C PSEUDO"	[138, 139] U [148,149]
- D	[150-157]
- "D PSEUDO"	[158, 159]
- E	[160-167] U [170-177]

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-	<u>"E PSEUDO"</u>	<u>[168, 169] U [178,179]</u>
-	<u>Spare</u>	<u>[180-189]</u>
-	<u>H (HIFI)</u>	<u>[190-237]</u>
-	<u>H (HFI)</u>	<u>[240-287]</u>
-	<u>"H PSEUDO"</u>	<u>[238, 239] U [288, 289]</u>
-	<u>Spares</u>	<u>[290-299]</u>
-	<u>K</u>	<u>[300-317]</u>
-	<u>"K PSEUDO"</u>	<u>[318, 319]</u>
-	<u>L</u>	<u>[320-367]</u>
-	<u>"L PSEUDO"</u>	<u>[368, 369]</u>
-	<u>M</u>	<u>[370-377]</u>
-	<u>"M PSEUDO"</u>	<u>[378, 379]</u>
-	<u>P</u>	<u>[380-427]</u>
-	<u>"P PSEUDO"</u>	<u>[428, 429]</u>
-	<u>R</u>	<u>[430-477]</u>
-	<u>"R PSEUDO"</u>	<u>[478, 479]</u>
-	<u>S (SPIRE)</u>	<u>[480-527]</u>
-	<u>S (SPR cooler)</u>	<u>[530-557]</u>
-	<u>"S PSEUDO"</u>	<u>[528, 529] U [558, 559]</u>
-	<u>T</u>	<u>[600-747] U [750-897]</u>
-	<u>"T PSEUDO"</u>	<u>[748, 749] U [898,899]</u>
-	<u>V</u>	<u>[560-562]</u>
-	<u>"V PSEUDO"</u>	<u>[563, 564]</u>
-	<u>W</u>	<u>[565-582]</u>
-	<u>"W PSEUDO"</u>	<u>[583, 584]</u>
-	<u>X</u>	<u>[585-587]</u>
-	<u>"X PSEUDO"</u>	<u>[588, 589]</u>
-	<u>Y (ACMS SCOE)</u>	<u>[920-939]</u>
-	<u>Y (CCS)</u>	<u>[940-941]</u>
-	<u>Y (PLM SCOE)</u>	<u>[942-943]</u>
-	<u>Y (CDMU DFE)</u>	<u>[944-945]</u>
-	<u>Y (TM/TC DFE)</u>	<u>[946-947]</u>
-	<u>Y (CDMU SCOE)</u>	<u>[948-949]</u>
-	<u>Y (IT&amp;C SCOE)</u>	<u>[950-951]</u>

-	<u>Y (LPS)</u>	<u>[952-953]</u>
-	<u>Y (SAS)</u>	<u>[954-955]</u>
-	<u>Y (BATSIM)</u>	<u>[956-957]</u>
-	<u>Y (CRYO SCOE)</u>	<u>[958-959]</u>
-	<u>Y (CRYO COTE)</u>	<u>[960-961]</u>
-	<u>Y (HIFI)</u>	<u>[962-963]</u>
-	<u>Y (PACS)</u>	<u>[964-965]</u>
-	<u>Y (SPIRE)</u>	<u>[966-967]</u>
-	<u>Y (HFI)</u>	<u>[968-969]</u>
-	<u>Y (LFI)</u>	<u>[970-971]</u>
-	<u>"Y PSEUDO"</u>	<u>[988, 989]</u>
-	<u>"PSEUDO"</u>	<u>[990-999]</u>

Note : The same computer being used by two different subsystems (ACMS and CDMS) should have a theoretical element number in the range [990-999]

## 5.4 Position

<del>NMCGVT 7520 C Position allocation</del>						
<del>The "position" identifier of different "theoretical elements" belonging to a "theoretical model" shall be allocated as follows (A range, closed to the one provided for "theoretical element" number is provided for each element and for the same reason. In addition, this table provides the 1553 bus and OBDH address):</del>						
<del>Theoretical element identifier</del>	<del>Position Number</del>	<del>Position Code</del>	<del>CDMS Bus 1553 address</del>	<del>CDMS Bus OBDH address</del>	<del>ACC Bus 1553 address</del>	<del>ACC Bus OBDH address</del>
<del>?"Generic"</del>	<del>[000-000]</del>					
<del>?"ACC"</del>	<del>[001-009]</del>					
<del>?"GYRO"</del>	<del>[010-019]</del>					
<del>?"STR1"</del>	<del>[020-029]</del>	<del>N</del>				
<del>?"STR2"</del>	<del>[020-029]</del>	<del>R</del>				
<del>?"RWE"</del>	<del>[030-039]</del>					
<del>?"RW1"</del>	<del>[040-049]</del>	<del>1</del>				
<del>?"RW2"</del>	<del>[040-049]</del>	<del>2</del>				
<del>?"RW3"</del>	<del>[040-049]</del>	<del>3</del>				
<del>?"RW4"</del>	<del>[040-049]</del>	<del>4</del>				



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<del>?"SAS H1"</del>	<del>[050-059]</del>	<del>N</del>
<del>?"SAS H2"</del>	<del>[050-059]</del>	<del>R</del>
<del>?"FSS1"</del>	<del>[060-069]</del>	<del>N</del>
<del>?"FSS2"</del>	<del>[060-069]</del>	<del>R</del>
<del>?"QRS1"</del>	<del>[070-079]</del>	<del>N</del>
<del>?"QRS2"</del>	<del>[070-079]</del>	<del>R</del>
<del>?"STR_MAPPER"</del>	<del>[080-089]</del>	
<del>?"AAD"</del>	<del>[090-099]</del>	
<del>?"SAS P1"</del>	<del>[100-107]</del>	<del>1</del>
<del>?"SAS P2"</del>	<del>[100-107]</del>	<del>2</del>
<del>?"SAS P3"</del>	<del>[100-107]</del>	<del>3</del>
<del>?"A_PSEUDO"</del>	<del>[108,109]</del>	
<del>?"ACC_SW "</del>	<del>[110-117]</del>	<del>U</del>
	<del>[120-127]</del>	
<del>?"B_PSEUDO_P"</del>	<del>[118,119]</del>	<del>U</del>
	<del>[128,129]</del>	
<del>?"RCS"</del>	<del>[130-137]</del>	<del>U</del>
	<del>[140-147]</del>	
<del>?"C_PSEUDO"</del>	<del>[138,139]</del>	<del>U</del>
	<del>[148,149]</del>	
<del>?"CDMU"</del>	<del>[150-157]</del>	
<del>?"D_PSEUDO"</del>	<del>[158,159]</del>	
<del>?"CDMU_SW"</del>	<del>[160-167]</del>	<del>U</del>
	<del>[170-177]</del>	
<del>?"E_PSEUDO"</del>	<del>[168,169]</del>	<del>U</del>
	<del>[178,179]</del>	
<del>?"FRAME_STR"</del>	<del>[180-187]</del>	
<del>?"F_PSEUDO"</del>	<del>[188,189]</del>	
<del>?"HIFI"</del>	<del>[190-237]</del>	
<del>?"HFI"</del>	<del>[240-287]</del>	
<del>?"H_PSEUDO"</del>	<del>[238,239]</del>	<del>U</del>
	<del>[288,289]</del>	
<del>?"SYSTEM"</del>	<del>[290-297]</del>	
<del>?"J_PSEUDO"</del>	<del>[298,299]</del>	

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? "CRYO\_ELEC" [300-309] \_\_\_\_\_  
?  
?"CRYOSTAT" [310-317] \_\_\_\_\_  
?  
?"K\_PSEUDO" [318, 319] \_\_\_\_\_  
?  
?"LFI" [320-367] \_\_\_\_\_  
?  
?"L\_PSEUDO" [368, 369] \_\_\_\_\_  
?  
?"RAD\_MON" [370-377] \_\_\_\_\_  
?  
?"M\_PSEUDO" [378, 379] \_\_\_\_\_  
?  
?"PACS" [380-427] \_\_\_\_\_  
?  
?"P\_PSEUDO" [428, 429] \_\_\_\_\_  
?  
?"LGA1" [430-439] 1 \_\_\_\_\_  
?  
?"LGA2" [430-439] 2 \_\_\_\_\_  
?  
?"LGA3" [430-439] 3 \_\_\_\_\_  
?  
?"MGA" [440-449] \_\_\_\_\_  
?  
?"RFDN" [450-459] \_\_\_\_\_  
?  
?"TWTA1" [460-469] N \_\_\_\_\_  
?  
?"TWTA2" [460-469] R \_\_\_\_\_  
?  
?"TRSP1" [470-477] N \_\_\_\_\_  
?  
?"TRSP2" [470-477] R \_\_\_\_\_  
?  
?"R\_PSEUDO" [478, 479] \_\_\_\_\_  
?  
?"SPIRE" [480-527] \_\_\_\_\_  
?  
?"SRP\_COOLER" [530-557] \_\_\_\_\_  
?  
?"S\_PSEUDO" [528, 529] U \_\_\_\_\_  
\_\_\_\_\_  
[558, 559] \_\_\_\_\_  
?  
?"THERMAL" [600-747] U \_\_\_\_\_  
\_\_\_\_\_  
[750-897] \_\_\_\_\_  
?  
?"T\_PSEUDO" [748, 749] U \_\_\_\_\_  
\_\_\_\_\_  
[898, 899] \_\_\_\_\_  
?  
?"VISUAL\_MON" [560-562] \_\_\_\_\_  
?  
?"V\_PSEUDO" [563, 564] \_\_\_\_\_  
?  
?"PCDU" [565-569] \_\_\_\_\_  
?  
?"BATTERY" [570-574] \_\_\_\_\_  
?  
?"SOLAR\_AR" [575-582] \_\_\_\_\_  
?  
?"W\_PSEUDO" [583, 584] \_\_\_\_\_  
?  
?"STR\_SW" [585-587] \_\_\_\_\_

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? "X\_PSEUDO" [588, 589]

? "EGSE" [900-987]

? "Y\_PSEUDO" [988, 989]

? "PSEUDO" [990-999]

## NMCSV-7520-C Position allocation - I

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) :

<u>Subsystem</u>	<u>Element position</u> <u>number</u>
- G	[000]
- A	[001-107]
- "A PSEUDO"	[108,109]
- B	[110-117] U [120-127]
- "B PSEUDO"	[118, 119] U [128,129]
- C	[130-137] U [140-147]
- "C PSEUDO"	[138, 139] U [148,149]
- D	[150-157]
- "D PSEUDO"	[158, 159]
- E	[160-167] U [170-177]
- "E PSEUDO"	[168, 169] U [178,179]
- Spares	[180-189]
- H (HIFI)	[190-237]
- H (HFI)	[240-287]
- "H PSEUDO"	[238, 239] U [288, 289]
- Spares	[290-299]
- K	[300-317]
- "K PSEUDO"	[318, 319]
- L	[320-367]
- "L PSEUDO"	[368, 369]
- M	[370-377]
- "M PSEUDO"	[378, 379]
- P	[380-427]
- "P PSEUDO"	[428, 429]

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-	<u>R</u>	<u>[430-477]</u>
-	<u>"R PSEUDO"</u>	<u>[478, 479]</u>
-	<u>S (SPIRE)</u>	<u>[480-527]</u>
-	<u>S (SPR cooler)</u>	<u>[530-557]</u>
-	<u>"S PSEUDO"</u>	<u>[528, 529] U [558, 559]</u>
-	<u>T</u>	<u>[600-747] U [750-897]</u>
-	<u>"T PSEUDO"</u>	<u>[748, 749] U [898,899]</u>
-	<u>V</u>	<u>[560-562]</u>
-	<u>"V PSEUDO"</u>	<u>[563, 564]</u>
-	<u>W</u>	<u>[565-582]</u>
-	<u>"W PSEUDO"</u>	<u>[583, 584]</u>
-	<u>X</u>	<u>[585-587]</u>
-	<u>"X PSEUDO"</u>	<u>[588, 589]</u>
-	<u>Y (ACMS SCOE)</u>	<u>[920-939]</u>
-	<u>Y (CCS)</u>	<u>[940-941]</u>
-	<u>Y (PLM SCOE)</u>	<u>[942-943]</u>
-	<u>Y (CDMU DFE)</u>	<u>[944-945]</u>
-	<u>Y (TM/TC DFE)</u>	<u>[946-947]</u>
-	<u>Y (CDMU SCOE)</u>	<u>[948-949]</u>
-	<u>Y (TT&amp;C SCOE)</u>	<u>[950-951]</u>
-	<u>Y (LPS)</u>	<u>[952-953]</u>
-	<u>Y (SAS)</u>	<u>[954-955]</u>
-	<u>Y (BATSIM)</u>	<u>[956-957]</u>
-	<u>Y (CRYO SCOE)</u>	<u>[958-959]</u>
-	<u>Y (CRYO COTE)</u>	<u>[960-961]</u>
-	<u>Y (HIFI)</u>	<u>[962-963]</u>
-	<u>Y (PACS)</u>	<u>[964-965]</u>
-	<u>Y (SPIRE)</u>	<u>[966-967]</u>
-	<u>Y (HFI)</u>	<u>[968-969]</u>
-	<u>Y (LFI)</u>	<u>[970-971]</u>
-	<u>"Y PSEUDO"</u>	<u>[988, 989]</u>
-	<u>"PSEUDO"</u>	<u>[990-999]</u>

## 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).

### NMCVT-7530-C UDC allocation - I

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

<u>Subsystem</u>	<u>Position inside the</u>
	<u>UDC packet</u>
- System	[0000-0099]
- SVM	[0100-0199]
- PLM	[0200-0299]
- HIFI	[0300-0399]
- HFI	[0300-0399]
- PACS	[0400-0499]
- LFI	[0400-0499]
- SPIRE	[0500-0599]
- Spares	[0600-1023]

## 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 :

<u>Software</u>	<u>Allocation</u>	<u>Subsystem</u>	<u>Allocation</u>
CDMS(except S/W)	[00000-08191]	D	[00000-00255]
		R	[00256-00511]

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	T	[00512-00767]	
	W	[00768-01023]	
	K	[01024-01279]	
	M	[01280-01535]	
	V	[01536-01791]	
	Spare	[01792-08191]	
CDMS (Software)	E	[08192-16383]	
ACMS(except S/W)	C	[16384-16639]	
	A	[16640-16895]	
	Spare	[16896-24575]	
ACMS (Software)	B	[24576-32767]	
HIFI	H	[32768-40959]	Herschel
HFI	H	[32768-40959]	Planck
PACS	P	[40960-49151]	Herschel
LFI	L	[40960-49151]	Planck
SPIRE	S	[49152-57343]	Herschel
Sorption cooler	S	[49152-57343]	Planck
Spare	Spare	[57344-65535]	
USD	reserved	[65535-65535]	

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.

## 6. ATTRIBUTES REQUIREMENTS

### 6.1 Application ID

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

According to RD3 annexe 3.

Notes :

*Warning : Problem with nominal and redundant equipment ON in parallel*

#### 1.26.2 Description

<b>NMCVT-7600-C</b>	-	<b>Description</b>	-	<b>I</b>
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The descriptions (long and short) shall :

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

## 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).

## ~~1.1.26.2.2~~ Long description

### NMCVT-7620-C - Deleted Long description -

~~TBW~~

## 1.36.3 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.



## 1.56.5 Group for constant

### NMCSV-7810-C - Constant group -

The following constant groups are identified :

<u>Constant group</u>	<u>Label</u>
<u>FDD-A</u>	<u>Flight Dynamics data - TBW</u>
<u>FDD-C</u>	<u>Flight Dynamics data - TBW</u>
<u>FDD-P</u>	<u>Flight Dynamics data - TBW</u>
<u>BSW</u>	<u>Basic software</u>
<u>ASW-ACMS</u>	<u>Application software ACMS</u>
<u>ASW-CDMS</u>	<u>Application software CDMS</u>
<u>ASW-STR</u>	<u>Application software STR</u>
<u>ASW-HIFI</u>	<u>Application software HIFI</u>
<u>ASW-PACS</u>	<u>Application software PACS</u>
<u>ASW-SPIRE</u>	<u>Application software SPIRE</u>
<u>ASW-HFI</u>	<u>Application software HFI</u>
<u>ASW-LFI</u>	<u>Application software LFI</u>

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

## 7. SPECIFIC INSTRUMENT REQUIREMENTS

This chapter group all the requirements (in addition to the ones marked as "NMCVT xxx 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 - I

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 IDVH08F or IDCH10F but all of them include an IDCH03F field (**unique per element**) which will be filled with instrument curve identifier.

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

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 IDVH08F 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 - I

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 IDON04F (unique per element) field which will be filled with instrument command verification stage identifier.

### NMCVT-9030-Instruments-C - Dynamic UDC allocation - I

Refer to NMCVT-7530-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 - I

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 - I

In case the SCOS packet shall be interpreted as a variable packet, in table "PID" (Packet identification), the "PID SPID" (5SCPS Packet Identifier) and the TPSD (Telemetry Packet Structure definition) shall be such that : "PID SPID" = "PID SPID"

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 structure definition (VPSD).

## NMCVT-9060-Instruments-C - PCF WIDTH - I

Contra to what was specified in asp's fax H-P-LT-2942 (bullet 6) there shall be no restriction on the use of PCF WIDTH field of PCF table.

Notes : The role of "PCF WIDTH" and "VPD OFFSET" are complementary and not redundant.

## NMCVT-9070-Instruments-C - - I

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 itmes 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 - I

Refer to NMCVT-7540-C".

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

### 1.4 Software parameter identifier

## NMCVT 7800 C - Software parameter identifier - I

"Software parameter" identifier shall:

Be of IDIN05F (limited to 65535) subtype with the following limitations:

-Generated by software SDE and reloaded inside HPSDB.

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~~?Be unique for a "software (CDMU or AGC) and real model".~~

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## 7.8. 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 <del>maybe</del> 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	<u>Curve _____ identifiers, Command verification stage identifiers and range set identifiers are not compliant. All others identifiers are compliant. To be detailed during HPSDB development</u>
<p><b>A4.2 Descriptions</b></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"> <li>• Consist of 26 letters of upper and lower case English alphabet A-Z, digits 0-9 and 'space', and the plus and minus signs;</li> <li>• Not contain a quote, double-quote, accent, comma, colon, full-stop</li> </ul>	NMCVT-7600-C	C	<u>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</u>

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RD1	Naming convention	Compliance	Remarks
<p>or semi-colon;</p> <ul style="list-style-type: none"> <li>• Not contain any special or non-printing character and in particular the under score unless it is absolutely necessary to define the data item;</li> <li>• Be as readable as possible;</li> <li>• Have understandable abbreviations and acronyms;</li> <li>• Not be left empty.</li> </ul>			<u>are not allowed.</u>
<p><b>A4.3 Subsystem identifiers</b> 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) <u>"G" for generic data (due to HPSDB)</u></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	<u>Spare. System is Z to be clarified</u>
W for Electrical Power Subsystem (PS or EPSS)	NMCVT-7500-C	C	

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RD1	Naming convention	Compliance	Remarks
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	
F for Frame- structure etc.	NMCVT-7500-C	C	<del>Spare.</del> To be clarified
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		PC	The plus, minus, <del>underscore</del> , dash and dot characters are also allowed (NMCVT-0100-C) according to RD2 chapter 3.3 third bullet.

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RD1	Naming convention	Compliance	Remarks
typed manually).			
Parameter identifier (ground) : PCF_NAME Char 8 M, C,D (C for Constants D for Synthetic Parameters)	NMCVT-5130-C	PC	<ul style="list-style-type: none"> <li>➤ Other function specifier have been added (NMCVT-0110-C - Subtype IDE201F) : <ul style="list-style-type: none"> <li>➤ "Z" for system parameters</li> <li>➤ "U" for user parameters</li> <li>➤ <u>"C" is not for constants (but for IC)</u></li> <li>➤ <u>"K" for constant</u></li> </ul> </li> <li>➤ The "type of data" is the sixth character instead of eighth.</li> </ul>
Parameter identifier (on-board) PCF_PID N10	NMCVT-7800-C	C	<del>Warning : in RD3 (PSIGD) the software parameter is coded on 16 bits so cannot be greater than 65535 (N5)-Allocation are provided (NMCVT-7530-C)</del>
Monitoring numerical curve identifier CAF_NUMBR N4	NMCVT-5370-C	NC	CHR(10) instead of N4 Change request : H-P-ASPI-CR- <del>02450199</del>
monitoring texte curve identifier TXF_NUMBR N4	NMCVT-5370-C	NC	CHR(10) instead of N4 Change request : H-P-ASPI-CR- <del>02450199</del>



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RD1	Naming convention	Compliance	Remarks
monitor polynomial curve identifier MCF_IDENT N4	NMCVT-5370-C	NC	CHR(10) instead of N4 Change request : H-P-ASPI-CR- <del>02450199</del>
Monitor packet identifier (fixed length) PID_SPID N10	NMCVT-4380-C	C	<u>In fact limited to 999999999.</u>
Monitor packet identifier (variable length) PID_TPSD N10	NMCVT-4380-C	C	<u>Force to be equal to PID SPID to be checked</u>
Alphanumeric display DPF_NUMBE Char8 A (AM - Displays created to feed data for a Mimic shall use Function Specifier AM)	NMCVT-6100-C	C	
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	NMCVT-4580-C	C	

# Naming Convention Specification

RD1	Naming convention	Compliance	Remarks
CCF_CNAME Char8 C			
Command parameter CPC_PNAME Char8 P	NMCVT-5130-C	C	
Command sequence CSF_NAME Char8 S	NMCVT-4660-C	C	
Command sequence formal parameter CSP_FPNAME Char8 F		<del>NC</del>	Formal parameter identifier is IDCH08F unique at command sequence level.
Verification stage identifier CVS_ID N5		NC	N(9) instead of N(4) Change request : H-P-ASPI-CR- <del>02450201</del>
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- <del>02450199</del>

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RD1	Naming convention	Compliance	Remarks
Command textual curve PAF_NUMBR N4	NMCVT-5370-C	NC	CHR(10) instead of N4 Change request : H-P-ASPI-CR- <del>02450199</del>
Command sequence parameter range check PRF_NUMBR N4		NC	CHR(8) instead of N4 Change request : H-P-ASPI-CR- <del>02450200</del>
N10 => Ten digit number N such that $0 < N < 2^{32} - 1$		<del>PCNG</del>	<del>Non duplication guaranty by HPSDB instantiations [000000000-999999999]</del>
N5 => Five digit number 00000 - 32767		NC	<del>Non duplication guaranty by HPSDB instantiations</del> <u>It has been required to extend them.</u>
N4 => Four digit number 0001 - 9999		NC	<u>It has been required to extend them.</u> <del>Non duplication guaranty by HPSDB instantiations</del>
Char8 => Eight Character alphanumeric identifier intended for Human use.	NMCVT-0110-C	C	
N4 : 1 000 - 1 999 HIFI HFI		NC	<u>It has been required to extend them.</u> Non-duplication guaranty by HPSDB instantiations
N4 : 2 000 - 2 999 PACS LFI		NC	<u>It has been required to extend them.</u> Non-duplication guaranty by

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RD1	Naming convention	Compliance	Remarks
			HPSDB instantiations
N4 : 3 000 - 3 999 SPIRE Sorption Cooler Subsystem		NC	<u>It has been required to extend them.</u> Non-duplication guaranty by HPSDB instantiations
N4 : 4 000 - 8 999 Alcatel		NC	<u>It has been required to extend them.</u> Non-duplication guaranty by HPSDB instantiations
N4 : 9 000 - 9 999 ESOC		NC	<u>It has been required to extend them.</u> Non-duplication guaranty by HPSDB instantiations
N5 : 00 001- 02 999 HIFI HFI		NC	<u>It has been required to extend them.</u> Non-duplication guaranty by HPSDB instantiations
N5 : 03 000- 05 999 PACS LFI		NC	<u>It has been required to extend them.</u> Non-duplication guaranty by HPSDB instantiations
N5 : 06 000 - 08 999 SPIRE Sorption Cooler Subsystem		NC	<u>It has been required to extend them.</u> Non-duplication guaranty by HPSDB instantiations

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RD1	Naming convention	Compliance	Remarks
N5 : 09 000 - 19 999 Alcatel		NC	<u>It has been required to extend them.</u> Non-duplication guaranty by HPSDB instantiations
N5 : 20 000 - 29 999 ESOC		NC	<u>It has been required to extend them.</u> 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
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,	NMCSV-0110-C	NC	Impossible to comply with this request (not mandatory) and some identifier length too short (TC packet, Parameters, ...)

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RD1	Naming convention	Compliance	Remarks
when supplied.			
<b>A4.4 Telemetry Packet</b> Packet identifiers shall be allocated on the basis of the source of the packet. Example 10000003 could be defined by HIFI	NMCVT-4380-C	NC	Non-duplication guaranty by HPSDB instantiations
<b>A4.5 Command Master Function Number:</b> Example: AC0001 (Command number for the AOCS subsystem)	NMCVT-4580-C	C	Warning : the example looks wrong : 6 characters.
<b>A4.5.1 Command Parameter Reference Number, (PREF):</b> 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".
<b>A4.5.2 Command Sequences:</b> 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.
<b>A4.6 Telemetry Parameters</b> A telemetry parameter shall be the relevant subsystem code letter and followed by the data type. Example: AM1234	NMCVT-5130-C	C	Warning : the example looks wrong : 6 characters.
<b>A4.6.1 Derived or Synthetic Parameters:</b> 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.)	NMCVT-5130-C	PC	<del>Warning : requirement unclear, but potential modification of naming convention for "T" code</del> <del>???</del> The second character ("D") is supported the third

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RD1	Naming convention	Compliance	Remarks
Where T can be: S – Saved (Supported by the system) H - Hard coded (Needs C++ complier.) D – Dynamic (Most common. Supported directly by the editor application) Example: ADD0004 (Leading zeros are required) ADS1234 All synthetic parameters must be defined in the telemetry database.			<u>one ("S" or "H" or "D") is not supported.</u>  Warning : the example looks wrong : 6 characters.
<b>A4.6.3 Constant Parameters:</b> Constant parameters shall be identified by the subsystem identifier followed by the letter C (Constant) followed by a four-digit unique number. (i.e. AC1234)	NMCVT-5130-C	<u>PC</u>	Warning : the example looks wrong : 6 characters.  <u>The second letter is not a "C" but a "K" ("C" is reserved for IC packet).</u>
<b>A4.7.1 Alphanumeric Displays (AND):</b> AND naming shall use the subsystem identifier followed by the letter A (e.g. AA1234)	NMCVT-6100-C	C	Warning : the example looks wrong : 6 characters.
<b>A4.7.2 Graphical Displays (GRD):</b> GRD naming shall use the subsystem identifier followed by the letter G (e.g. AG1234)	NMCVT-6110-C	C	Warning : the example looks wrong : 6 characters.
<b>A4.7.3 Mimic Alphanumeric Displays:</b> Mimic alphanumeric displays (One Mimic alphanumeric display must be defined for each Mimic Diagram created) use the subsystem identifier followed by AM (e.g. AAM1234).	NMCVT-6120-C	C	Warning : the example looks wrong : 6 characters.
<b>A4.7.4 Mimic Display Diagrams (MDD):</b> 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.
<b>A4.7.5 Scrolling Log Displays (SLD):</b> SLD naming shall use the subsystem identifier followed by the function specifier L followed by a four-digit	NMCVT-6130-C	C	Warning : the example looks wrong : 6 characters.

# Naming Convention Specification

RD1	Naming convention	Compliance	Remarks
number (i.e. AL1234)			
<b>A4.8 Convention to be used for Procedures:</b> 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
<b>A4.8.1 Flight Control Procedures, FCP:</b> FCP's shall be referenced using a four-digit number preceded by <b>FCP_</b> and the relevant subsystem identifier followed by 'underscore' (i.e. <b>FCP_AOC_1234</b> ) Note: leading zeros are required (i.e. <b>FCP_AOC_0001</b> )		NC	Not covered by HPSDB tool
<b>A4.8.2 Contingency Recovery Procedures:</b> CRP's shall be referenced using four digit number preceded by CRP_ and the relevant subsystem identifier followed by underscore' (i.e. CRP_AOC_1234) Note: leading zeros are required (i.e. CRP_AOC_0001)		NC	Not covered by HPSDB tool
<b>A4.8.3 Timelines:</b> The character string TDoyFfNn shall identify Timelines as follows:		NC	Not covered by HPSDB tool



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RD1	Naming convention	Compliance	Remarks
Where: T = Timeline Doy = Day of Year Ff = File number Nn = Version number			To be clarified.

# Naming Convention Specification

## 9. 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, ...), ...).

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

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

# Naming Convention Specification

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

# Naming Convention Specification

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

## 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, ...)

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## 8.10. SUMMARY

### 8.10.1 Configuration

NMVCT-4030-C

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

NMVCT-4040-C

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

NMVCT-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

NMVCT-4060-C

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

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## NMVCT-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

## NMVCT-4081a-C

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

## NMVCT-4081b-C

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

## NMVCT-4081c-C

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

## NMVCT-4081d-C

# Naming Convention Specification

Pos code															
IDCH01 M															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4081e-C

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

## NMVCT-4085-C

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

## NMVCT-4086-C

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

## NMVCT-4100-C

<b>Theoretical model</b>													
--------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--



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

## NMVCT-4120-C

<del>R</del> Real model															
Theoretical model										<del>R</del> real model number					
IDCH10F										IDIN02F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4130-C

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

## 8.210.2 Telemetry packets

### NMVCT-4305-C

<u>Generic TM packet standard</u> <del>template</del>															
<u>Generic Element number</u>										<u>Generic Position</u>					
<u>0</u>	<u>0</u>	<u>0</u>	<u>I</u>	<u>M</u>	<u>S</u>	<u>D</u>	<u>IDIN04F</u>			<u>0</u>	<u>0</u>	<u>0</u>			
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

### NMVCT-4311-C

# Naming Convention Specification

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

NMVCT-4320-C

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

NMVCT-4332-C

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

NMVCT-4334-C

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

NMVCT-4336-C

# Naming Convention Specification

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	

## NMVCT-4337-C

Generic TM structure															
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

## NMVCT-4340-C

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

## NMVCT-4352-C

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

## NMVCT-4353-C

Element TPCF															

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IDCH08 <del>FM</del>								9	10	11	12	13	14	15	16
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4356-C

Element TM packet standard <del>template</del>															
Element number															
IDIN03F			I	M	S	D	IDIN04F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4358-C

Element TM packet PSICD <del>template</del>															
Element number							Type				Subtype				
IDIN03F			I	M	P	S	IDIN03F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-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

## NMVCT-4374-C

Element TM packet group															
Element number															

# Naming Convention Specification

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

## NMVCT-4380-C

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

## NMVCT-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	

## NMVCT-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	

## NMVCT-4394-C

Subsystem TM packet standard template																
---------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

# Naming Convention Specification

Element TM packet standard <u>template</u>											Position				
Element number															
IDIN03F			I	M	S	D	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4396-C

Subsystem TM packet PSICD <u>template</u>															
Element TM packet PSICD <u>template</u>													Position		
Element number							Type			Subtype					
IDIN03F			I	M	P	S	IDIN03F			IDIN03F			IDIN03F		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-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

## NMVCT-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

# Naming Convention Specification

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NMVCT-4438-C

Model TM item

As corresponding subsystem TM item.

NMVCT-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

[NMVCT-4441-C](#)

<a href="#">Subsystem TM packet standard <del>template</del> definition</a>															
<a href="#">S/S pseudo element number</a>								<a href="#">Subsystem pseudo position</a>							
<a href="#">IDIN03F</a>			<a href="#">I</a>	<a href="#">M</a>	<a href="#">S</a>	<a href="#">D</a>	<a href="#">IDIN04F</a>			<a href="#">IDIN03F</a>					
<a href="#">1</a>	<a href="#">2</a>	<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a>	<a href="#">6</a>	<a href="#">7</a>	<a href="#">8</a>	<a href="#">9</a>	<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>	<a href="#">13</a>	<a href="#">14</a>	<a href="#">15</a>	<a href="#">16</a>

[NMVCT-4442-C](#)

<a href="#">Subsystem TM packet PSICD <del>template</del> definition</a>															
<a href="#">S/S pseudo element number</a>								<a href="#">Subsystem pseudo position</a>							
<a href="#">IDIN03F</a>			<a href="#">I</a>	<a href="#">M</a>	<a href="#">P</a>	<a href="#">S</a>	<a href="#">IDIN03F</a>			<a href="#">IDIN03F</a>			<a href="#">IDIN03F</a>		
<a href="#">1</a>	<a href="#">2</a>	<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a>	<a href="#">6</a>	<a href="#">7</a>	<a href="#">8</a>	<a href="#">9</a>	<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>	<a href="#">13</a>	<a href="#">14</a>	<a href="#">15</a>	<a href="#">16</a>

NMVCT-4445-C

# Naming Convention Specification

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

## NMVCT-4446-C

Subsystem IPCF 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

## NMVCT-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

## NMVCT-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

## NMVCT-4461-C

### Model TM item definition



# Naming Convention Specification

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As corresponding subsystem TM item definition replacing :

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

## 8.310.3 Telecommand packets

NMVCT-4505-C

<u>Generic TC packet header template</u>															
<u>Generic element number</u>											<u>Generic Position</u>				
<u>0</u>	<u>0</u>	<u>0</u>	<u>I</u>	<u>C</u>	<u>H</u>	<u>D</u>	<u>IDIN04F</u>				<u>0</u>	<u>0</u>	<u>0</u>		
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

NMVCT-4511-C

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

NMVCT-4513-C

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

# Naming Convention Specification

## NMVCT-4515-C

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

## NMVCT-4533-C

<u>Element TC packet header template</u>																		
<u>Element number</u>																		
<u>IDIN03F</u>			<u>I</u>	<u>C</u>	<u>H</u>	<u>D</u>	<u>IDIN04F</u>											
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>			

## NMVCT-4540-C

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

## NMVCT-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		

## NMVCT-4574-C

# Naming Convention Specification

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

## NMVCT-4577-C

Subsystem TC packet header															
Element TC packet header											Position				
Element number															
IDIN03F			I	C	H	D	IDIN04F				IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-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

## NMVCT-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

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NMVCT-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

~~NMVCT-4634-C~~

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

NMVCT-4638-C

Model TC item

As corresponding subsystem TC item.

~~NMVCT-4639-C~~

<del>Subsystem TC packet header template definition</del>															
<del>S/S pseudo element number</del>											<del>S/S pseudo position</del>				
<del>IDIN03F</del>			<del>I</del>	<del>C</del>	<del>H</del>	<del>D</del>	<del>IDIN04F</del>				<del>IDIN03F</del>				
<del>1</del>	<del>2</del>	<del>3</del>	<del>4</del>	<del>5</del>	<del>6</del>	<del>7</del>	<del>8</del>	<del>9</del>	<del>10</del>	<del>11</del>	<del>12</del>	<del>13</del>	<del>14</del>	<del>15</del>	<del>16</del>

# Naming Convention Specification

## NMVCT-4640-C

Subsystem TC packet definition																
S/S <u>type</u>	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	

## NMVCT-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

## NMVCT-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

## NMVCT-4656-C

### Model TC item definition

As corresponding subsystem TC item definition replacing :

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

# Naming Convention Specification

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## 8.410.4 Command sequences

### NMVCT-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	

### NMVCT-4657-4659-C

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

### NMVCT-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	

### NMVCT-4674-C

#### Model command sequence

As corresponding subsystem command sequence.

# Naming Convention Specification

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NMVCT-4675-C

Subsystem command sequence definition															
S/S <u>type</u>	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

NMVCT-4676-C

## Model command sequence definition

As corresponding subsystem command sequence definition replacing :

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

## 8.5.10.5 Command verification

[NMVCT-4677-C](#)

<u>Generic command verification stage</u>																
<u>Gen Subsys number</u>		<u>Generic position</u>														
<u>0</u>	<u>1</u>	<u>IDIN04F</u>				<u>0</u>	<u>0</u>	<u>0</u>								
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	

NMVCT-~~4677~~4679-C

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

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## NMVCT-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	

## NMVCT-4684-C

### Model command verification stage

As corresponding subsystem command verification stage.

## NMVCT-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

## NMVCT-4688-C

### Model command verification stage definition

As corresponding subsystem command verification stage definition replacing :

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



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## 8-6-10.6 1553 messages

### NMVCT-4702-C

<u>Generic 1553 status word</u>															
<u>Generic Element number</u>							<u>1/2</u>	<u>Sub-address</u>		<u>Generic position</u>					
<u>0</u>	<u>0</u>	<u>0</u>	<u>B</u>	<u>U</u>	<u>S</u>	<u>W</u>	<u>IDIN01F</u>	<u>IDIN02F</u>		<u>0</u>	<u>0</u>	<u>0</u>			
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

### NMVCT-4705-C

<u>Generic 1553 command word</u>															
<u>Generic Element number Gen-s/s</u>							<u>RT address</u>		<u>Sub-address</u>		<u>Generic Position</u>				
<u>0</u>	<u>0</u>	<u>0</u>	<u>B</u>	<u>U</u>	<u>C</u>	<u>W</u>	<u>IDIN02F</u>		<u>IDIN02F</u>		<u>0</u>	<u>0</u>	<u>0</u>		
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

### NMVCT-4711-C

<u>Generic 1553 message</u>															
<u>Generic Element number</u>							<u>A/C</u>				<u>Generic Position</u>				
<u>0</u>	<u>0</u>	<u>0</u>	<u>B</u>	<u>U</u>	<u>M</u>	<u>G</u>	<u>IDCH01F</u>	<u>IDIN03F</u>			<u>0</u>	<u>0</u>	<u>0</u>		
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

### NMVCT-4713-C

<u>Generic 1553 acquisition command link</u>														
<u>Generic Element number</u>										<u>Generic Position</u>				
<u>0</u>	<u>0</u>	<u>0</u>	<u>B</u>	<u>U</u>	<u>L</u>	<u>K</u>	<u>IDIN04F</u>			<u>0</u>	<u>0</u>	<u>0</u>		

# Naming Convention Specification

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

## NMVCT-47154-C

<u>Generic 1553 structure</u>															
<u>Generic element number</u>							<u>A/C</u>					<u>Generic Position</u>			
0	0	0	B	U	S	I	IDCH01F	IDIN03F			0	0	0		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4716-C

<u>Generic 1553 message group</u>															
<u>Generic element number</u>							<u>A/C</u>					<u>Generic Position</u>			
0	0	0	B	U	G	R	IDCH01F	IDIN03F			0	0	0		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4720-C

<u>Element 1553 status word</u>															
<u>Element number</u>							1/2	<u>Sub-address</u>							
IDIN03F			B	U	S	W	IDIN01F	IDIN02F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4726-C

<u>Element 1553 command word</u>															
<u>Element number</u>							<u>RT address</u>	<u>Sub-address</u>							
IDIN03F			B	U	C	W	IDIN02F	IDIN02F							

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<a href="#">1</a>	<a href="#">2</a>	<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a>	<a href="#">6</a>	<a href="#">7</a>	<a href="#">8</a>	<a href="#">9</a>	<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>	<a href="#">13</a>	<a href="#">14</a>	<a href="#">15</a>	<a href="#">16</a>
-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------

## NMVCT-4730-C

Element 1553 message															
Element number							A/C								
IDIN03F			B	U	M	G	IDCH01F	IDIN03F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4752-C

Element 1553 acquisition command link															
Element number															
IDIN03F			B	U	L	K	IDIN04F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4760-C

Element 1553 structure															
Element number							A/C								
IDIN03F			B	U	S	T	IDCH01F	IDIN03F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4774-C

Element 1553 message group															
Element number							A/C								
IDIN03F			B	U	G	R	IDCH01F	IDIN03F							

# Naming Convention Specification

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

## NMVCT-4777-C

Subsystem 1553 status word															
Element 1553 status word											Position				
Element number							1/2	Sub-address							
IDIN03F			B	U	S	W	IDIN01F	IDIN02F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4780-C

Subsystem 1553 message															
Element 1553 message											Position				
Element number							A/C								
IDIN03F			B	U	M	G	IDCH01F	IDIN03F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4791-C

Subsystem 1553 command word															
Element 1553 command word											Position				
Element number							RT address	Sub-address							
IDIN03F			B	U	C	W	IDIN02F	IDIN02F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4795-C

# Naming Convention Specification

<u>Subsystem 1553 acquisition command link</u>																
<u>Element 1553 acquisition command link</u>												<u>Position</u>				
<u>Element number</u>																
<u>IDIN03F</u>			<u>B</u>	<u>U</u>	<u>L</u>	<u>K</u>	<u>IDIN04F</u>				<u>IDIN03F</u>					
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	

## NMVCT-4800-C

<u>Subsystem 1553 structure</u>																	
<u>Element 1553 structure</u>												<u>Position</u>					
<u>Element number</u>							<u>A/C</u>										
<u>IDIN03F</u>			<u>B</u>	<u>U</u>	<u>S</u>	<u>T</u>	<u>IDCH01F</u>	<u>IDIN03F</u>			<u>IDIN03F</u>						
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>		

## NMVCT-4820-C

<u>Subsystem 1553 message group</u>																	
<u>Element 1553 message group</u>												<u>Position</u>					
<u>Element number</u>							<u>A/C</u>										
<u>IDIN03F</u>			<u>B</u>	<u>U</u>	<u>G</u>	<u>R</u>	<u>IDCH01F</u>	<u>IDIN03F</u>			<u>IDIN03F</u>						
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>		

## NMVCT-4838-C

### Model 1553 message item

As corresponding subsystem 1553 message item.

## NMVCT-4839-C

# Naming Convention Specification

Subsystem 1553 status word definition															
S/S pseudo element number							1/2	Sub-address		Subsystem pseudo position					
IDIN03F			B	U	S	W	IDIN01F	IDIN02F		IDIN03F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4840-C

Subsystem 1553 message definition															
S/S pseudo element number							A/C			Subsystem pseudo position					
IDIN03F			B	U	M	G	IDCH01F	IDIN03F		IDIN03F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## [NMVCT-4841-C](#)

<a href="#">Subsystem 1553 command word definition</a>															
<a href="#">S/S pseudo Element number</a>							<a href="#">RT address</a>	<a href="#">Sub-address</a>		<a href="#">S/S pseudo position</a>					
<a href="#">IDIN03F</a>			<a href="#">B</a>	<a href="#">U</a>	<a href="#">C</a>	<a href="#">W</a>	<a href="#">IDIN02F</a>	<a href="#">IDIN02F</a>		<a href="#">IDIN03F</a>					
<a href="#">1</a>	<a href="#">2</a>	<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a>	<a href="#">6</a>	<a href="#">7</a>	<a href="#">8</a>	<a href="#">9</a>	<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>	<a href="#">13</a>	<a href="#">14</a>	<a href="#">15</a>	<a href="#">16</a>

## [NMVCT-4845-C](#)

<a href="#">Subsystem 1553 acquisition command link definition</a>															
<a href="#">S/S pseudo element number</a>									<a href="#">Subsystem pseudo position</a>						
<a href="#">IDIN03F</a>			<a href="#">B</a>	<a href="#">U</a>	<a href="#">L</a>	<a href="#">K</a>	<a href="#">IDIN04F</a>		<a href="#">IDIN03F</a>						
<a href="#">1</a>	<a href="#">2</a>	<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a>	<a href="#">6</a>	<a href="#">7</a>	<a href="#">8</a>	<a href="#">9</a>	<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>	<a href="#">13</a>	<a href="#">14</a>	<a href="#">15</a>	<a href="#">16</a>

## NMVCT-4850-C

# Naming Convention Specification

Subsystem 1553 structure definition															
S/S pseudo element number			A/C				Subsystem pseudo position								
IDIN03F			B	U	S	T	IDCH01F	IDIN03F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4855-C

Subsystem 1553 message group definition															
S/S pseudo element number			A/C				Subsystem pseudo position								
IDIN03F			B	U	G	R	IDCH01F	IDIN03F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4865-C

### Model 1553 message item definition

As corresponding subsystem 1553 message item definition replacing :

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

## 8.7.10.7 OBDH interfaces

### NMVCT-4961-C

Generic OBDH interrogation															
Generic Element number			A/C				Generic position								
<u>0</u>	<u>0</u>	<u>0</u>	<u>D</u>	<u>H</u>	<u>I</u>	<u>N</u>	<u>C</u>	<u>IDIN03F</u>			<u>0</u>	<u>0</u>	<u>0</u>		
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

# Naming Convention Specification

## NMVCT-4963-C

<u>Generic OBDH acquisition command link</u>															
<u>Generic Element number</u>											<u>Generic position</u>				
<u>Q</u>	<u>Q</u>	<u>Q</u>	<u>D</u>	<u>H</u>	<u>L</u>	<u>K</u>	<u>IDIN04F</u>				<u>Q</u>	<u>Q</u>	<u>Q</u>		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-49654-C

<u>Generic OBDH interrogation group</u>																
<u>Generic Element number</u>							<u>A/C</u>					<u>Generic position</u>				
<u>Q</u>	<u>Q</u>	<u>Q</u>	<u>D</u>	<u>H</u>	<u>G</u>	<u>R</u>	<u>C</u>	<u>IDIN03F</u>				<u>Q</u>	<u>Q</u>	<u>Q</u>		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-4974-C

Element OBDH interrogation															
Element number							A/C								
IDIN03F			D	H	I	N	C	IDIN03F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4977-C

<u>Element OBDH acquisition command link</u>															
<u>Theoretical element number</u>															
<u>IDIN03F</u>			<u>D</u>	<u>H</u>	<u>L</u>	<u>K</u>	<u>IDIN04F</u>								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-4990-C



# Naming Convention Specification

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

## NMVCT-5020-C

Subsystem OBDH interrogation															
Element OBDH interrogation											Position				
Element number								A/C							
IDIN03F			D	H	I	N	C	IDIN03F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-5040-C

<u>Subsystem OBDH acquisition command link</u>															
<u>Element OBDH acquisition command link</u>											<u>Position</u>				
<u>Element number</u>								<u>A/C</u>							
<u>IDIN03F</u>			<u>D</u>	<u>H</u>	<u>L</u>	<u>K</u>	<u>C</u>	<u>IDIN04F</u>			<u>IDIN03F</u>				
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

## NMVCT-5044-C

Subsystem OBDH interrogation group															
Element OBDH interrogation group											Position				
Element number								A/C							
IDIN03F			D	H	G	R	C	IDIN03F			IDIN03F				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

# Naming Convention Specification

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

DATE : 08/09/2003

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## NMVCT-5048-C

Model OBDH interrogation item

As corresponding subsystem OBDH interrogation item.

## NMVCT-5060-C

Subsystem OBDH interrogation definition																
S/S pseudo element number							A/C				Subsystem pseudo position					
IDIN03F			D	H	I	N	C	IDIN03F			IDIN03F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-5070-C

Subsystem OBDH acquisition command link definition																
<u>S/S pseudo element number</u>											<u>Subsystem pseudo position</u>					
<u>IDIN03F</u>			<u>D</u>	<u>H</u>	<u>L</u>	<u>K</u>		<u>IDIN04F</u>			<u>IDIN03F</u>					
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	

## NMVCT-5080-C

Subsystem OBDH interrogation group definition																
S/S pseudo element number							A/C				Subsystem pseudo position					
IDIN03F			D	H	G	R	C	IDIN03F			IDIN03F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-5088-C

Model OBDH interrogation item definition

Reference Fichier\_Naming\_convention\_RS\_02-00\_Sep03.doc du 12/09/2003 18:59

Reference du modèle : M023 -3

# Naming Convention Specification

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

DATE : 08/09/2003

ISSUE : 02/00 Page : 155/170

As corresponding subsystem OBDH interrogation item definition replacing :

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

## 8.8.10.8 Parameters (except formal parameters)

### NMVCT-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

### NMVCT-5106-C

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

### NMVCT-5110-C

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

### NMVCT-5120C

# Naming Convention Specification

Calibr. set order															
IDIN02F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-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

## NMVCT-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

## NMVCT-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	

## NMVCT-5160-C

# Naming Convention Specification

Subsystem parameter group															
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

## NMVCT-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

## NMVCT-5201-C

<u>Generic parameter set</u>																
<u>Gen S/S</u>	<u>Function</u>						<u>Generic Position</u>									
<u>G</u>	<u>I</u>	<u>IDCH03F</u>					<u>0</u>	<u>0</u>	<u>0</u>							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-5210-C

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

## NMVCT-5215-C

# Naming Convention Specification

Subsystem parameter set															
S/S <u>type</u>	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

## NMVCT-5217-C

Subsystem parameter set definition															
S/S <u>type</u>	Function	Subsystem pseudo position													
IDCH01F	T	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-5218-C

Generic parameter value set															
Gen S/S	Function	Generic Position													
<u>G</u>	<u>V</u>	<u>IDCH03F</u>			<u>0</u>	<u>0</u>	<u>0</u>								
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

## NMVCT-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

## NMVCT-5225-C

# Naming Convention Specification

Subsystem parameter value set															
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

## NMVCT-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

## NMVCT-5245-C

Generic parameter range set															
GenS/S	Function	Generic Position													
<u>G</u>	<u>R</u>	<u>IDCH03F</u>			<u>0</u>	<u>0</u>	<u>0</u>								
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

## NMVCT-5250-C

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

## NMVCT-5255-C

# Naming Convention Specification

Subsystem parameter range set															
S/S <u>type</u>	Element parameter range set					Position									
	Function														
IDCH01F	R	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-5257-C

Subsystem parameter range set definition															
S/S <u>type</u>	Function						Subsystem pseudo position								
IDCH01F	R	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-5270-C

### Model parameter item

As corresponding subsystem parameter item.

## NMVCT-5280-C

### Model parameter item definition

As corresponding subsystem parameter item definition replacing :

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

## 8.910.9 Curves (for default curve refer to requirements and notes)

## NMVCT-5355\_C



# Naming Convention Specification

<u>Generic curve</u>															
<u>Generic element number</u>															
<u>0</u>	<u>0</u>	<u>0</u>	<u>IDIN03F</u>												
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

## NMVCT—5360\_C

<u>Theoretical element curve</u>															
<u>Element number</u>															
<u>IDIN03F</u>			<u>IDIN03F</u>												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT—5365\_C

<u>Real element curve (conditional)</u>															
<u>Element parameter</u>					<u>Calibration set order</u>										
<u>IDCH04F</u>					<u>IDIN02F</u>										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT—5365a-C

<u>Real element curve (default)</u>															
<u>Element parameter</u>															
<u>IDCH04F</u>															
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

## NMVCT—5367\_C

# Naming Convention Specification

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

## NMVCT—5368\_C

Real subsystem curve <u>(conditional)</u>															
Subsystem parameter										Calibration set order					
IDCH08F										IDIN02F					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT—5368a-C

Real subsystem curve (default)															
Subsystem parameter															
IDCH08F															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT—5370C

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

## NMVCT—5375\_C

# Naming Convention Specification

<u>Real model curve (conditional)</u>															
Model parameter								Calibration curve set							
IDCH08F								IDIN02F							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-5375a-C

<u>Real model curve (default)</u>															
<u>Model parameter</u>															
<u>IDCH08F</u>															
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

## 8-1010.10 Displays

### NMVCT-6040-C

<u>generic alphanumeric display</u>																	
<u>Gen S/S</u>	<u>Function</u>							<u>Generic position</u>									
<u>G</u>	<u>A</u>	<u>IDCH03F</u>						<u>IDIN03F</u>									
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>		

### NMVCT-6042-C

<u>Generic graphic display</u>																	
<u>Gen S/S</u>	<u>Function</u>							<u>Generic position</u>									
<u>G</u>	<u>G</u>	<u>IDCH03F</u>						<u>IDIN03F</u>									
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>		

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## NMVCT-6044-C

<u>Generic scrolling display</u>															
<u>Gen S/S</u>	<u>Function</u>							<u>Generic position</u>							
<u>G</u>	<u>L</u>	<u>IDCH03F</u>						<u>IDIN03F</u>							
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

## NMVCT-6046-C

<u>Generic variable SCOS packet display</u>															
<u>Gen S/S</u>	<u>Function</u>							<u>Generic position</u>							
<u>G</u>	<u>W</u>	<u>IDCH03F</u>						<u>IDIN03F</u>							
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

## NMVCT-6050-C

Element alphanumeric display															
Function															
A	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-6105-C

Element graphic display															
Function															
G	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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## NMVCT-6128-C

Element scrolling display															
Function															
L	IDCH03F														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-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

## NMVCT-6150-C

Subsystem display															
S/S_type	Element display identifier							Position							
IDCH01F	Function						IDIN03F								
IDCH01F	IDCH01F						IDIN03F								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-6156-C

### Model display item

As corresponding subsystem display item.

## NMVCT-6160-C

# Naming Convention Specification

Subsystem alphanumeric display definition																
S/S <u>type</u>	Function	Subsystem pseudo position														
IDCH01F	A	IDCH03F			IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-6170-C

Subsystem graphic display definition																
S/S <u>type</u>	Function	Subsystem pseudo position														
IDCH01F	G	IDCH03F			IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-6200-C

Subsystem scrolling display definition																
S/S <u>type</u>	Function	Subsystem pseudo position														
IDCH01F	L	IDCH03F			IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-6205-C

Subsystem variable SCOS packet display definition																
S/S <u>type</u>	Function	Subsystem pseudo position														
IDCH01F	W	IDCH03F			IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-6210-C

### Model display item definition

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As corresponding subsystem display item definition replacing :

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

## 8.1110.11 Constants

### NMVCT-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

### NMVCT-6310-C

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

### NMVCT-6330-C

Subsystem constant															
S/S <u>type</u>	Element <u>parameter</u> <u>constant</u>			Position											
	Function														
IDCH01F	K	IDCH03F			IDIN03F										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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NMVCT-6341-C

**Model constant**

As corresponding subsystem constant.

NMVCT-6350-C

Subsystem constant definition																
S/S <u>type</u>	Function	Subsystem pseudo position														
IDCH01F	K	IDCH03F			IDIN03F											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NMVCT-6360-C

**Model constant definition**

As corresponding subsystem constant definition replacing :

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

## 10.12 Reason of change

NMVCT-6370-C

<u>Generic reason of change</u>															
<u>Site identifier</u>								<u>Generic position</u>							
<u>IDIN02F</u>		<u>R</u>	<u>S</u>	<u>C</u>	<u>H</u>	<u>IDIN05F</u>				<u>IDIN03F</u>					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NMVCT-6374-C



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<u>Element reason of change</u>															
<u>Site identifier</u>															
<u>IDIN02F</u>		<u>R</u>	<u>S</u>	<u>C</u>	<u>H</u>	<u>IDIN05F</u>									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## NMVCT-6378-C

<u>Subsystem reason of change</u>																
<u>Element reason of change</u>											<u>Position</u>					
<u>Site identifier</u>																
<u>IDIN02F</u>		<u>R</u>	<u>S</u>	<u>C</u>	<u>H</u>	<u>IDIN05F</u>						<u>IDIN03F</u>				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-6382-C

### Model reason of change

As corresponding subsystem reason of change.

## NMVCT-6384-C

<u>Subsystem reason of change definition</u>																
<u>Site identifier</u>												<u>Subsystem pseudo position</u>				
<u>IDIN02F</u>		<u>R</u>	<u>S</u>	<u>C</u>	<u>H</u>	<u>IDIN05F</u>						<u>IDIN03F</u>				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

## NMVCT-6386-C

### Model reason of change definition

As corresponding subsystem reason of change definition replacing :

# Naming Convention Specification

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"subsystem pseudo " per "system pseudo "

"subsystem" per "pseudo subsystem"

End of the document