Recommended Practice 921.2-M-1

**Guidelines for the Specification of Cross Support Transfer Services**

Draft Technical Corrigendum 1

Issue Date: July 2019

*Page 4-2, paragraph 4.3.11*

*Add the following new item a) and NOTE to the list:*

a) contain the following paragraph replacing the normally used introductory paragraph: “The following publications contain provisions which, through reference in this text, constitute provisions of this document.  At the time of publication, the editions indicated were valid.  It is important to note that the edition of the *Cross Support Transfer Service—Specification Framework* that is named in this subsection is the only edition that can be used as a source of requirements for this edition of this Cross Support Transfer Service Recommended Standard. All other publications in the list are subject to revision, and users of this document are encouraged to investigate the possibility of applying the most recent editions of the publications (other than the Specification Framework) indicated below. The CCSDS Secretariat maintains a register of currently valid CCSDS publications.”

NOTE  –  In the CSTS Specification Framework (reference [1]), procedure version numbers are increased as soon as there are changes to those procedures, but only then. Consequently different CSTS Specification Framework editions may contain the same version of a given procedure type. One CSTS specification is bound to one specific edition of the CSTS Specification Framework and consequently only the procedure versions and ASN.1 module versions specified in that edition can be used for the specification of that CSTS.

*Change item a) (due to the above update now item b)) to:*

b) the version of the CSTS Specification Framework Recommended Standard that is applicable to the CSTS Specification Recommended Standard;

*Page 4-29, paragraph 4.10*

*Add the following new paragraph 4.10.3 (the cross reference takes into account the renumbering of the subsections caused by the insertion of this new paragraph):*

**4.10.3** Each module identifier shall indicate the version of the given module as shown in 4.10.4.1.

*Page 4-30, paragraph 4.10.3.1 (4.10.4.1 after having applied the above change)*

*Change the module identifier to:*

CCSDS-<Module Reference Service Component>-OBJECT-IDENTIFIERS

{ iso(1) identified-organization(3) standards-producing-organization(112)

ccsds(4) css(4) csts(1) services(2)

<service identifier>Service(<service number>)

<service identifier>ServiceModules(4) object-identifiers(1)

version(<version number>)

}

*Remove the word "and" from the end of item b) of the list.*

*Add the word "and" to the end of item c) of the list.*

*Add the following new item d) to the list:*

d) <version number> is an integer that has been uniquely assigned to the given version of the ASN.1 module.

*Change the module identifier in the NOTE to:*

|  |
| --- |
| CCSDS-CATALOG-PACKETS-OBJECT-IDENTIFIERS  { iso(1) identified-organization(3)  standards-producing-organization(112)  ccsds(4) css(4) csts(1) services(2) catalogPktsService(57)  catalogPktsServiceModules(4) object-identifiers(1) version(1)  } |

*Page 4-30, paragraph 4.10.3.2 (4.10.4.2 after having applied the above changes)*

*Change the module identifier to:*

CCSDS-<Module Reference Service Component>-OBJECT-IDENTIFIERS

{ iso(1) identified-organization(3) standards-producing-organization(112)

ccsds(4) css(4) csts(1) services(2)

<parent service identifier>Service(<parent service number>)

<parent service identifier>DerivedServices(1)

<service identifier>Service(<service number>)

<service identifier>ServiceModules(4) object-identifiers(1)

version(<version number>)

}

*Change item a) of the list to (the cross reference takes already the changed subsection numbering into account):*

a) <Module Reference Service Component>, <service identifier> ,<service number> and <version number> are as defined in 4.10.4.1;

*Page 4-31, paragraph 4.10.3.5 (4.10.4.5 after having applied the above changes)*

*Change to (the cross reference takes already the changed subsection numbering into account):*

**4.10.3.5** The <service number>, <version number> and <parent service number> specified in 4.10.4.1 and 4.10.4.2 respectively shall conform to the format of a valid number as specified in reference [4].

*Page 4-31, subsection 4.10.7 (4.10.8 after having applied the above changes)*

*Change figure 4-2 to:*

CCSDS-CATALOG-PACKETS-OBJECT-IDENTIFIERS

{ iso(1) identified-organization(3)

standards-producing-organization(112) ccsds(4) css(4) csts(1)

services(2) catalogPkts(57) catalogPktsModules(4)

object-identifiers(1) version(1)

}

DEFINITIONS

IMPLICIT TAGS

::= BEGIN

EXPORTS

catalogPktsDerivedServices

, catalogPktsExtServiceParameters

, catalogPktsServiceProcedures

;

IMPORTS services

FROM CCSDS-CSTS-OBJECT-IDENTIFIERS

;

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- Root Object Identifiers of the Service

catalogPkts OBJECT IDENTIFIER ::= {services 57}

catalogPktsDerivedServices OBJECT IDENTIFIER ::= {catalogPkts 1}

catalogPktsExtendedServiceParameters

OBJECT IDENTIFIER ::= {catalogPkts 2}

catalogPktsServiceProcedures OBJECT IDENTIFIER ::= {catalogPkts 3}

catalogPktsServiceModules OBJECT IDENTIFIER ::= {catalogPkts 4}

catalogPktsServiceFrRef OBJECT IDENTIFIER ::= {catalogPkts 5}

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- Procedure Identifier:

catalogPktsNotification OBJECT IDENTIFIER ::=  
 {catalogPktsServiceProcedures 1}

END

*Page 4-36, subsection 4.11.3*

*Correct paragraph number 4.11.4 to 4.11.3.1*

*Correct paragraph number 4.11.5 to 4.11.3.2*

*Page 4-36, paragraph 4.11.5.1.1 (4.11.3.3.1 after having applied the above changes)*

*Change the module identifier to:*

CCSDS-<Module Reference Service Component>-<Module Reference Procedure Component>-PDUS

{ iso(1) identified-organization(3) standards-producing-organization(112)

ccsds(4) css(4) csts(1) services(2)

<service identifier>Service(<service number>)

<service identifier>ServiceModules(4) extensions(2)

<procedure pdu module identifier>(<procedure pdu module number>)

version(<version number>)

}

*Change the paragraph below the module identifier to (the cross reference takes already the changed subsection numbering into account):*

where <service identifier> and <service number> are as defined in and the other components are specified as follows:

*Page 4-37, paragraph 4.11.5.1.2 (4.11.3.3.2 after having applied the above changes)*

*Change the module identifier to:*

CCSDS-<Module Reference Service Component>-<Module Reference Procedure Component>-PDUS

{ iso(1) identified-organization(3) standards-producing-organization(112)

ccsds(4) css(4) csts(1) services(2)

<parent service identifier>Service(<parent service number>)

<parent service identifier>DerivedServices(1)

<service identifier>Service(<service number>)

<service identifier>ServiceModules(4) extensions(2)

<procedure pdu module identifier>(<procedure pdu module number>)

version(<version number>)

}

*Change item a) of the list to (the cross references take already the changed subsection numbering into account):*

a) <Module Reference Service Component> is defined in 4.10.4.1 a), 4.10.4.2, 4.10.4.3, <service identifier> and <service number> are defined in 4.10.4.1 b) and 4.10.4.1 c), respectively and <version number> is defined in 4.10.4.1 d);

*Page 4-37, paragraph 4.11.5.1.5 (4.11.3.3.5 after having applied the above changes)*

*Change to (the paragraph number takes the changed subsection/paragraph numbering caused by other corrections into account):*

**4.11.3.3.5** The <procedure pdu module number> and the <version number> shall conform to the format of a valid number as specified in reference [4].

*Page 4-43, subsection 4.12*

*Change the module identifier to:*

CCSDS-<service identifier>-PROCEDURE-PARAMETERS-EVENTS-DIRECTIVES

{ iso(1) identified-organization(3) standards-producing-organization(112) ccsds(4) css(4) csts(4) services(2)

<service identifier>Service(<service number>)

<service identifier>ServiceModules(4) object-identifiers(1) version(<version number>)

}

*Remove the word "and" from the end of item a) of the list.*

*Change the period at the end of item b) of the list to a semicolon and add the word "and".*

*Add the following new item c) to the list:*

c) <version number> is an integer that has been uniquely assigned to the given version of this ASN.1 module.