AGENCY RID NUMBER: NASA-JPL-JVP-1

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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------------------------------------------------------------------

DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: May 2014

PAGE NUMBER: B**-**2 PARAGRAPH NUMBER: B2.6

RID SHORT TITLE: Match qualified parameter specification to ASN.1

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Change from   
“If the value qualifier of a given parameter is ‘unavailable’, ‘undefined’, or ‘error’, no value shall be returned.”

To

“If the value qualifier of a given parameter is ‘unavailable’, ‘undefined’, or ‘error’, type and value shall not be returned.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The structure of the ASN.1 specification of the QualifiedParameter type is such that if the qualifier is anything but ‘valid’ neither the type nor the value is returned.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated with modification. The updated text reads as follows:

B2.6 If the value qualifier of a given parameter is ‘unavailable’, ‘undefined’, or ‘error’, type and value of that parameter shall not be returned.

AGENCY RID NUMBER: NASA-JPL-JVP-2

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: May 2014

PAGE NUMBER: 4-18 PARAGRAPH NUMBER: 4.5.2.2.2.1

RID SHORT TITLE: Figures 4-2 is the same as 4-1

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Replace Figure 4-2 with one that shows the recording buffer, such as the following (which was the diagram that was originally submitted for use to show the recording buffer):



------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The description of figure 4-2 states that it “shows both real-time

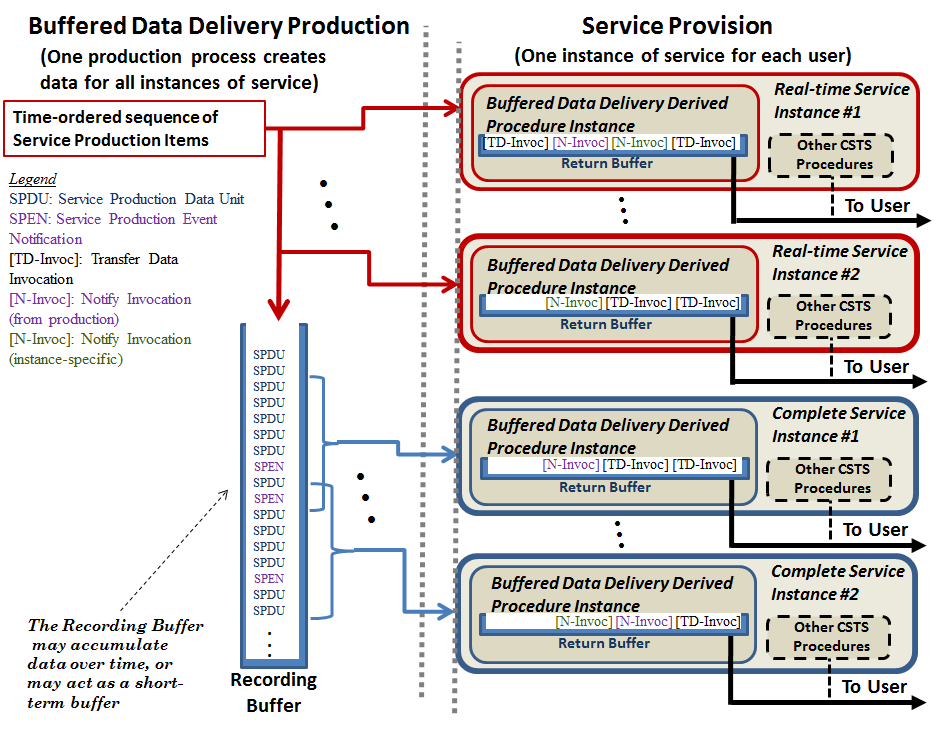
and complete delivery mode service instances, and the use of the recording buffer for providing data to service instances in complete delivery mode.” However, the figure is exactly the same as figure 4-1 and shows noting about the recording buffer. The figure suggested above is the one that Fred Brosi developed in the spring of 2011 to illustrate both real-time and complete modes. It was carried in the CSTS SFW drafts until the February 2014 draft, when it appears to hve been deleted a replaced with a copy of Figure 4-1.

------------------------------------------------------------------

DISPOSITION:

Note: Same problem addressed in RID ESA-03

Accepted and document updated with modifications. The figure as shown in this RID has been slightly modified as to achieve consistency in terms of colors and fonts used. The slightly modified figure looks like this:



AGENCY RID NUMBER: NASA-JPL-JVP-3

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: May 2014

PAGE NUMBER: 4-7, 4-28, 4-43, 4-53, 4-70,

PARAGRAPH NUMBER: 4.3.5, 4.5.5.1, 4.6.5.1, 4.7.5.1, 4.8.5.1,

RID SHORT TITLE: Specify Units for Procedure Configuration Parameters

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Specify the units for the following configuration parameters:

Table 4-2: service user responding timer;

Table 4-16: return-buffer-size, recording-buffer-size, delivery-latency-limit;

Table 4-26: input-queue-size;

Table 4-34: maximum-forward-buffer-size, input-queue-size, processing-latency-limit;

Table 4-44: input-queue-size;

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Specification of the units is required for interoperability. Because these are configuration parameters, they must be defined in the specification and cannot be deferred to SANA.

------------------------------------------------------------------

DISPOSITION:

Accepted and engineering units added to the tables as follows:

Table 4-2: service user responding timer [seconds];

Table 4-16: return-buffer-size [number of TRANSFER-DATA and/or NOTIFY invocations], recording-buffer-size [Mbytes], delivery-latency-limit [seconds];

Table 4-26: input-queue-size [number of PROCESS-DATA invocations];

Table 4-34: maximum-forward-buffer-size [number of PROCESS-DATA invocations], input-queue-size [number of PROCESS-DATA invocations], processing-latency-limit [milliseconds];

Table 4-44: input-queue-size [number of PROCESS-DATA invocations].

It should be noted however that for some of the above listed parameters the engineering unit was already specified in the definition of the parameter referenced in the table. For convenience of the users of the document, nonetheless the tables indicate the engineering unit for all parameters. Shall we remove now the engineering units from the parameter definition as to avoid that the same information is provided in two places?

AGENCY RID NUMBER: NASA-JPL-JVP-4

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: May 2014

PAGE NUMBER: PARAGRAPH NUMBER:

RID SHORT TITLE: No Positive Integer type defined for Qualified Parameter

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Add a positive integer type to the list of framework types for the Qualified Parameter

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The Association Control procedure configuration parameter serviceUserRespondingTimer is defined in the ASN.1 as PosInt. Since this is a configuration parameter it is subject to being reported in the GET in a qualified parameter. The Framework types should support all framework configuration parameter types.

------------------------------------------------------------------

DISPOSITION:

Possibly I misunderstand the purpose of the RID, but for now I’m rejecting it because as far as I can see parameters of the IntPos type can be reported. The relevant type specification in the ASN.1 looks as follows:

TypeAndValue ::= CHOICE

{ integer [0] SEQUENCE OF INTEGER

, integerPositive [1] SEQUENCE OF IntPos

, intUnsigned [2] SEQUENCE OF IntUnsigned

, duration [3] SEQUENCE OF Duration

, characterString [4] SEQUENCE OF VisibleString

, boolean [5] SEQUENCE OF BOOLEAN

, octetString [6] SEQUENCE OF OCTET STRING

, float [7] SEQUENCE OF REAL

, time [8] SEQUENCE OF Time

, enumerated [9] SEQUENCE OF IntUnsigned

, typeAndValueExtension [100] Extended

}

AGENCY RID NUMBER: NASA-JPL-JVP-5

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 3-22 PARAGRAPH NUMBER: 3.11.2.2.3

RID SHORT TITLE: Confusing usage of “notification-type” and “event”

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Change 3.11.2.2.3.1 from “The **notification-type** shall be defined with the following event arguments:” to

“The **notification-type** shall contain an *event* that is defined with the following event arguments:”

Change 3.11.2.2.3.1 (a) from “event-name;” to “event-name: in the form of an Event Name as described in 1.6.1.4.19;”

In 3.11.2.2.3.2, add “(event-name)” following each of the event text names, e.g., “‘production configured” (event-name)”.

Change 3.11.2.2.3.3 from “The Published Identifiers for the above published events are …” to “The Published Identifiers for the event names of the above published names are …”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The relationships among notification-type, event, event-name, and published identifier should be more rigorously defined and enforced.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: NASA-JPL-JVP-6

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: May 2014

PAGE NUMBER: 4-27 PARAGRAPH NUMBER: 4.5.4.2

RID SHORT TITLE: Buffered Data Delivery procedure NOTIFY operation

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change 4.5.4.2.1 from “…by defining two additional types of notifications” to “by defining two additional of notification-type values”.
2. Delete section 4.5.4.2.2.1.
3. Change the title of 4.5.2.2.1 (was 4.5.2.2.2) from “notification-type Refinement” to “notification-type Extension”.
4. In the new 4.5.4.2.2.1.1 (a), change   
   “the types specified by the common NOTIFY operation …”  
   to  
   “one of the events specified by the common NOTIFY operation …”.
5. In the new 4.5.4.2.2.1.1 (a), move the statement “the notifications specified in the common NOTIFY are discardable” to a subbullet, and add “for the Buffered Data Delivery procedure” to the end of the statement.
6. Insert a new paragraph 4.5.4.2.2.2.2 “The Published Identifiers for the above new event-names are specified in E3.16 as pBDDdataDiscardedExcessBacklog and pBDDendOfData, respectively.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. “types of notifications” is undefined. What are being added are two new notification-types.
2. The method for adding new notifications-types has been changed from using an extension parameter to adding new events with their own Published Identifiers. Therefore the sections identifying notification-type extension parameter syntax are o longer applicable
3. This is adding new values, which is extension, not refinement (which modifies or constrains the existing values).
4. The notification-type parameter can carry only one event.
5. There should not be two normative statements in the same bullet. Making it a sub-aligns it with the style used for the new events.
6. This identifies the Published Identifiers for the new events in a manner that’s consistent with the definition of the NOTIFY operation itself in 3.11.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: NASA-JPL-JVP-7

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: May 2014

PAGE NUMBER: 4-39, 4-41 PARAGRAPH NUMBER: 4.6.4, 4.6.4.2.2

RID SHORT TITLE: Data Processing procedure NOTIFY operation

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. In table 4-23, change the NOTIFY/Refined cell from “Y” to “N”.
2. Move 4.6.4.2.3 to the end of section 4.6.4.
3. Move the NOTE under of section 4.6.4.2.4 be under 4.6.4.2.2 and delete 4.6.4.2.4 section header. This will make the current 4.6.4.2.4.1 be 4.6.4.2.2.3, etc.
4. Change the title of 4.6.4.2.3 from “notification-type Refinement” to “notification-type Extension”.
5. Replace the current content of 4.6.4.2.3 with:

“**4.6.4.2.3.1** The value of the **notification-type** shall be one of the following:

a) one of the events specified by the common NOTIFY operation in 3.11.2.2.3.2; or

b) ‘data processing completed’ (event-name)—processing of the data unit identified in the parameter dataunit-id-last-OK completed successfully

1) unless otherwise specified by the service using that procedure or by a derived procedure, the associated event-value shall be empty.

**4.6.4.2.3.2** The Published Identifier for the event-name of the ‘data processing complete’ event is specified in E3.16 as pDPdataProcessingCompleted.

**4.6.4.2.3.1** The events defined by the Data Processing procedure shall be transferred with the Functional Resource Name of the service triggering the events.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. There is no refinement of the NOTIFY operation, only extension.
2. As it is now located, section 4.6.4.2.3 – which deals with extension of the notification-type – is located in the middle of the section that deals with the extension *parameters*. Moving it to the end puts all of the extension parameter material together.
3. .What are currently the subsections of section 4.6.4.2.4 should be under 4.6.4.2.2, as they deal with the new operations parameters that are being added to the NOTIFY operation (see the START operation for the Buffered Data Delivery operation as an example of how new operation parameters should be documented).
4. This is adding new values, which is extension, not refinement (which modifies or constrains the existing values).
5. a) this style is consistent with the way new notification-type events are added in the other procedures on the book;  
   b) The content of the event-value must be addressed; and  
   c) The Published Identifier for the event name must be specified.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: NASA-JPL-JVP-8

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: May 2014

PAGE NUMBER: 4-64, 4-68 PARAGRAPH NUMBER: 4.8.4, 4.8.4.3

RID SHORT TITLE: Sequence-Controlled Data Processing procedure NOTIFY operation

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. In table 4-41, change the NOTIFY/Extended cell from “N” to “Y”.
2. In the first paragraph under 4.8.4.3.1, change “The Sequence Controlled Data Processing procedure refines the NOTIFY operation …” to “The Sequence Controlled Data Processing procedure extends the NOTIFY operation …”.
3. Change the name of 4.8.4.3.2 from “Refinement” to “Extension”.
4. Replace the current content of 4.8.4.3.2 with:

“**4.8.4.3.2.1** The value of the **notification-type** shall be one of the following:

a) one of the events specified by the Data Processing procedure NOTIFY operation in 4.6.4.2.3.; or

b) ‘expired’—at the time when processing is being started, the latest-data-process-starttime

is already in the past;

1) unless otherwise specified by the service using that procedure or by a derived procedure, the associated event-value shall be empty.

c) ‘locked’—at the time when processing is supposed to be started or while a date unit is

being processed, one of the conditions specified in 4.8.3.5.2 occurred.

1) unless otherwise specified by the service using that procedure or by a derived procedure, the associated event-value shall be empty.

NOTE – When the ‘expired’ event occurs, the procedure enters the active.locked state (see 4.8.3.5.2) which in turn means that the ‘locked’ event is to be reported. Therefore, whenever the ‘expired’ event occurs, two notifications will be sent by this procedure. ‘data processing completed’ (event-name)—processing of the data unit identified in the parameter dataunit-id-last-OK completed successfully

**4.8.4.3.2.2** “The Published Identifiers for the above event-names are specified in E3.16 as pSCDPexpired and pSCPDlocked, respectively.

**4.6.4.2.3.1** The events defined by the Sequence-Controlled Data Processing procedure shall be transferred with the Functional Resource Name of the service triggering the events.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. This procedure extends the NOTIFY operation by adding notification-type events.
2. This procedure is adding new values, which is extension, not refinement (which modifies or constrains the existing values).
3. This procedure is adding new values, which is extension, not refinement (which modifies or constrains the existing values).
4. a) this style is consistent with the way new notification-type events are added in the other procedures on the book;  
   b) The text must make clear what set of values are being added to.  
   c) The content of the event-value must be addressed; and  
   d) The Published Identifiers must be specified.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: NASA-JPL-JVP-9

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 2-13, 2-14 PARAGRAPH NUMBER: 2.6.1

RID SHORT TITLE: Compress or re-draw figures 2-2 and 2-3

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Compress or re-draw figures 2-2 and 2-3 so that they are simple graphics.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The current graphics are too large and complex to print on some printers, causing errors.

------------------------------------------------------------------

DISPOSITION:

Accepted and redrawn figures inserted into the document. The reduced will take effect only once the changes have been accepted. The printing problem with the pdf version of the RED-2 Book appears however to be a local issue.

AGENCY RID NUMBER: NASA-JPL-JVP-10

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 1-14, 4-7, 4-28, 4-43, 4-53, 4-70, 4-76, 4-86, 4-97, and   
4-103

PARAGRAPH NUMBER: 1.6.3.2.6, 4.3.5, 4.5.5.1, 4.6.5.1, 4.7.5.1, 4.8.5.1, 4.9.5, 4.10.5, 4.11.5, and 4.12.5

RID SHORT TITLE: Procedure Configuration parameters tables

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

The Configuration Parameters section of the procedure specifications should specify \*all\* configuration parameters that are identified in the specifications of those procedures, not just the ones that are “accessible” and/or dynamically reconfigurable.

1. Change the second and third paragraphs of 1.6.3.2.6 from:

“This subsection also identifies those parameters that are accessible by the service user for

monitoring. The parameters can be accessed by means of the GET operation or are provided

by means of the NOTIFY operation.

Furthermore, this subsection specifies which, if any, of the configuration parameter values

may be updated while the service executing the procedure is bound.”

To

“This subsection also identifies those parameters that may be accessed (read) by the service user of any service that includes a procedure that contains a GET operation. For each configuration parameter, this subsection provides cross references to the use of the parameter in the specification of the procedure, and also identifies the Parameter Identifier to be used in reporting the value of the parameter (see 1.6.1.4.33).

Furthermore, this subsection specifies which, if any, of the configuration parameter values may be dynamically modified while the service that is executing the procedure is bound. If one or more configuration parameters are dynamically modifiable, the subsection identifies the event that is used to notify (by means of the NOTIFY operation) when such a modification has occurred.”

1. For procedure configuration parameters tables 4-2, 4-16, 4-26, 4-34, 4-44, 4-51, 4-58, 4-66, and 4-74, ensure that the wording of the description of each table and the contents of each section are consistent with the contents of (the new) section 1.6.3.2.6 (e.g., (a) make sure that all configuration parameters are included, not just those that are either “accessible” or dynamically modifiable, and (b) don’t use “monitoring”).

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. a) The suggested rewording avoids the term “monitoring”, which could mistakenly be interpreted as allowing these parameters to be accessed by the MD-CSTS, which is not possible. [NOTE – I was going to suggest replacing “accessible” with “gettable” or “queriable”, but that would involve changing all of the configuration parameter table headings.]   
   b) The fact that the Parameter IDs are also identified should be called out.  
   c) How the NOTIFY operation is involved with these parameters needs a more-accurate description.
2. a) The first paragraph of 1.6.3.2.6 states “This Configuration Parameters subsection lists the parameters that need to be configured in the context of this procedure.” Thisis not limited to accessible and/or dynamically modifiable parameters.   
   b) The cited tables are all described as identifying the configuration parameters that can be “monitored”.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly as far as item 1) is concerned. Regarding item 2) the wording has been changed as to avoid the term ‘monitoring’. However, apart from that I’m not sure what is missing. I did not find any example of a not listed configuration parameter including those parameters that are neither queriable nor dynamically modifiable.

The only parameters I found that need to be set and are not listed in the configuration parameter tables of the procedures are those related to PDU authentication. But they are not procedure specific and therefore it is correct that they are not listed. Which other configuration parameters are missing?

AGENCY RID NUMBER: NASA-JPL-JVP-11

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 2-4 PARAGRAPH NUMBER: 2.2.2.2

RID SHORT TITLE: Query of Production Status

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Change the second paragraph from:  
“Production status changes are notified to the service user via the Notification procedure (see

4.11) or via associated NOTIFY operations included in other procedures. The current value

of the production-status may be obtained using the Cyclic Report procedure defined

in 4.6, if that is supported by the service.”

To

“Production status changes are notified to the service user via the Notification procedure (see

4.11) or via associated NOTIFY operations included in other procedures. The current value

of the production-status may be obtained using (a) the Cyclic Report procedure defined

in 4.6, if that is supported by the service, (b) the GET operation, if any procedure of the service (including the Information Query procedure) uses the GET operation.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The description fails to identify the ability to get the current value of production-status using the GET operation.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: NASA-JPL-JVP-12

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 3-15 PARAGRAPH NUMBER: 3.6.2.2.1 (a)

RID SHORT TITLE: PEER-ABORT ‘communications failure’ diagnostic

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Insert the following NOTE after 3.6.2.2.1 (a):

“NOTE – The ‘communications failure’ diagnostic is included in the PEER-ABORT invocation to support its possible use by particular kinds of gateways. It is used by such gateways to report on communication failure with the peer application entity, and it is not intended to be used by the peer application entity itself. Beyond this statement, the behavior of such gateways is outside the scope of this Recommended Standard.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The note clarifies that the use of gateways is outside the scope of the Recommended Standard, and is based on the wording used to describe the responder-port-identifier parameter of the BIND invocation.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: NASA-JPL-JVP-13

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 4-1 PARAGRAPH NUMBER: 4.2.1.2

RID SHORT TITLE: Exception of Association Control procedure

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

From:

“The procedures shall be instantiated as soon as a positive BIND return is issued by the service provider. Exception to that statement is the Association Control procedure that shall be instantiated at service instance creation.”

To

“All procedures other than the Association Control procedure shall be instantiated as soon as a positive BIND return is issued by the service provider.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The revised text is more direct and avoids repeating material from the previous clause.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: NASA-JPL-JVP-14

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 3-16 PARAGRAPH NUMBER: 3.7.2.3.1 (a)

RID SHORT TITLE: ‘unable to comply’ START diagnostic

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

From:

“‘unable to comply’—the service provider is unable to perform the requested service at this time because of a fault affecting the service”

to

“‘unable to comply’—the service provider is unable to activate the procedure at this time because of a fault affecting the service”.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The inability to start a procedure does not necessarily affect the performance of the whole service, just the instance of the procedure for which the START is being invoked.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: NASA-JPL-JVP-15

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 3-16 PARAGRAPH NUMBER: 3.7.2.3.1 (b)

RID SHORT TITLE: ‘out of service’ START diagnostic

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Revisit the validity of the ‘out of service’ diagnostic as it applies to the activation of an individual procedure.

Define “the service provider has been taken out of service”.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The BIND definition of ‘out of service’ is that production status is ‘halted’. Is that what is meant dfor the START operation, too? If the production status is ‘halted’, the BIND fails in the first place, prohibiting the START invocation in the first place. If the intent is to prohibit starting a procedure if the production status is ‘halted’, that should be made obvious in the various Starting BEHAVIOR sections.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

For those procedures that use the START operation but did not yet contain a clause specifying the behavior in case production status is ‘halted’ when the START invocation arrives, such clause has been added to the Starting subsection. For the one occurrence of ‘taken out of service’, text has been added stating that this is equivalent to production status being ‘halted’.

AGENCY RID NUMBER: NASA-JPL-JVP-16

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 4-12 PARAGRAPH NUMBER: 4.4.5

RID SHORT TITLE: Unbuffered Data Delivery configuration parameters?

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1) Delete the sentence :

“The service or the derived procedure using the Unbuffered Data Delivery procedure shall define the semantic and the syntax of the data parameter (see 3.9.2.2.4.3).”

2) Change the NOTE to be the normative content of the section. However, this section must identify all configuration parameters, not just those that are accessible or modifiable:  
a) If the Unbuffered Data Delivery procedure has no configuration parameters at all, change the paragraph to simply read: “The Unbuffered Data Delivery procedure does not have any configuration parameters.”  
b) If the Unbuffered Data Delivery procedure has any configuration parameters, reword the section to identify those parameters and indicate that they are neither accessible nor dynamically modifiable.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. The semantic and syntax of the data parameter has nothing to do with the configuration of the procedure. This sentence does not belong in the Configuration Parameters section.
2. The section must address all configuration parameters, not just those that are accessible or mofifiable. [NOTE – this RID is related to NASA-JPL-JVP-10.]

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

The procedure does not have any configuration parameters.

AGENCY RID NUMBER: JVP-17

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 4-28 PARAGRAPH NUMBER: 4.5.5.1

RID SHORT TITLE: Non-discardable notifications is not a configuration parameter

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Delete the non-discardable notifications row from table 4-16.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Which notifications are discardable and which ones are not are not configurable parameters They are specified as part of the procedure and/or the service that uses the procedure.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-18

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 4-21, 4.23

PARAGRAPH NUMBER: 4.5.3.2.8.3, 4.5.3.2.8.4, 4.5.3.3.4

RID SHORT TITLE: ReturnBufferSize procedure-internal parameter vs. return-buffer-size configuration parameter

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. In 4.5.3.2.8.3, change:

“That number, given by the return-buffer-size parameter, is configured by the service using this procedure or by a derived procedure.”

To

“That number, given by the ReturnBufferSize parameter, is initially configured by the service using the return-buffer-size parameter parameter of this procedure or of a derived procedure.”

1. In 4.5.3.2.8.4 (a), change:

“ is equal to the value of the return-buffer-size parameter…”

To

“ is equal to the value of the ReturnBufferSize parameter…”

1. In 4.5.3.3.4 (d), change:

“increase the size of the return buffer (return-buffer-size) by one plus the number of notifications of non-discardable events; that new size shall remain in effect until the contents of the return buffer are passed to the communications service, after which the return-buffer-size shall be reverted to the original size.”

To

“increase the size of the return buffer (ReturnBufferSize) by one plus the number of notifications of non-discardable events; that new size shall remain in effect until the contents of the return buffer are passed to the communications service, after which ReturnBufferSize shall be reverted to the original size as configured via return-buffer-size.”

1. In 4.5.3.3.4 (d) NOTE, change “return-buffer-size” to “ReturnBufferSize”.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The procedure-internal buffer size parameter (which may change rapidly) must be distinguished from the return-buffer-size configuration parameter. This is especially important because the return-buffer-size configuration parameter can be queried, and implementers should not be allowed to interpret the specification that the dynamically-varying ReturnBufferSize is what is to be made accessible.

------------------------------------------------------------------

DISPOSITION:

Accepted and updates of the document implemented with modifications.

Item 1):

The revised text now reads:

That number, given by the ReturnBufferSize parameter, is initially configured by the service using this procedure or by a derived procedure based on the procedure’s return-buffer-size parameter.

Item 3):

The revised text now reads:

increase the size of the return buffer (ReturnBufferSize) by one plus the number of notifications of non-discardable events; that new size shall remain in effect until the contents of the return buffer are passed to the communications service, after which ReturnBufferSize shall be reverted to the original size as configured via the return-buffer-size parameter.

AGENCY RID NUMBER: JVP-19

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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------------------------------------------------------------------

DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 4-28 PARAGRAPH NUMBER: 4.5.5

RID SHORT TITLE: Buffered Data Delivery Procedure Configuration Parameter Change events

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

In the Configuration Parameters section for the Buffered Data Delivery (BDD) procedure:

1. Replace the NOTE following the table with the following normative clause:  
   “The pBDDConfigurationChange event shall be used to notify the user of the service executing the BDD procedure of the dynamic modification of the return-buffer-size parameter or the delivery-latency-limit parameter, where the Published Identifier for the pBDDConfigurationChange event is specified in annex E3.16.”.
2. Change section 4.5.5.2 from   
   “For the notification of the pBDDconfigurationChange event the event-value parameter shall contain the bddConfigurationChange parameter defined in E3.3.”  
   to  
   “The event-value of the pBDDconfigurationChange event shall contain the current values of the return-buffer-size and delivery-latency-limit parameters, as specified for the bddConfigurationChange parameter defined in E3.3.”
3. Delete 4.5.5.3 and insert the following NOTE in its place:  
   “In order for the occurrence of the pBDDConfigurationChange event to be reported, the service using the Buffered Data Delivery procedure must also use a procedure that contains a NOTIFY operation that carries the notification in real time. For example, the service could use the Notification procedure, through which user could subscribe to the pBDDConfigurationChange event.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. What is now in the NOTE is normative material that is not stated elsewhere.
2. The contents of the event-value should be normatively specified within the text of the CSTS-SFW and not be deferred to the ASN.1.
3. It is inappropriate for one procedure to require that a service using that procedure to implement a different procedure. At most, a procedure can identify that a capability is not available unless other conditions outside of the procedure (such as the service also using a procedure that contains a NOTIFY operation) are met. Furthermore, the Notification procedure is not necessarily required to transfer the notification – the fundamental requirement is that a NOTIFY operation that reports in real-time be available.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly with a minor modification.

For item3) the text of the NOTE now reads:

In order for the occurrence of the pBDDConfigurationChange event to be reported, the service using the Buffered Data Delivery procedure must also use a procedure that contains a NOTIFY operation that carries the notification in real time. For example, the service could use the Notification procedure, through which the user could subscribe to the pBDDConfigurationChange event.

AGENCY RID NUMBER: JVP-20

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 4-41, 4-43, 4-52, 4-53, 4-68, 4-70

PARAGRAPH NUMBER: 4.6.4.2, 4.6.5, 4.7.4, 4.7.5, 4.8.4.3, 4.8.5

RID SHORT TITLE: Data Processing Procedure Configuration Parameter Change events

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. In the NOTIFY operation section for each of the Data Processing (DP), Buffered Data Processing (BDP), and Sequence-Controlled Data Processing (SCDP) procedures,, extend the notification-type parameter by adding the xxxconfigurationChange event for that procedure. Specify the trigger for that event (e.g., “This event occurs whenever the input-queue-size configuration parameter is dynamically modified while the service is bound”). Specify the event-value contents for that event. Specify the object identifiers that are associated with the event-name and event-value components of the event [NOTE – for the BDP procedure this will require extending the NOTIFY operation.]
2. In the Configuration Parameters section for the DP, BDP, and SCDP procedures, change the NOTE from:  
   “The event associated with the dynamic modification of the [names of dynamically-modifiable configuration parameter(s)] is referred to as pxxxconfigurationChange and the associated Published Identifier is specified in annex E3.16.”  
   to  
   “The pxxxconfigurationChange event notifies the service user of the dynamic modification of the [names of dynamically-modifiable configuration parameter(s)]. See [reference to the NOTIFY operation’s notification-type extension specification].  
   ”
3. In the Configuration Parameters section for the DP, BDP, and SCDP procedures, delete the requirements that specify the parameter types of the event-value components.
4. In the Configuration Parameters section for the DP, BDP, and SCDP procedures, delete the requirements of the form “To be notified of the occurrence of the xxxconfigurationChange event, the service using the XXX procedure shall use the Notification procedure and subscribe to the pXXXconfigurationChange event by means of the Notification procedure’s START operation.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. It is not necessary to rely on an extra procedure (such a Notification) because each of these procedures has its own NOTIFY operation that sends its notifications in real time (in contrast to the BDD procedure’s NOTIFY operation, which channels its NOTIFY invocations through the Recording Buffer). NOTE – by using the procedure’s own NOTIFY operation instead of a separate Notification procedure, the use will always receive these events – that is, the user will “lose” the ability to not subscribe to the event. However, given the relatively low frequency of such configuration changes, the gain in simplicity offsets the loss of that ability.
2. All specification of the event-value contents is moved to the NOTIFY section and does not need to be repeated here.
3. The requirement for a separate Notification procedure has been removed by this RID. NOTE – if this RID is rejected, then problem with having the DP (derived) procedure require another procedure has to be addressed as in RID NASA-JPL-JVP-19, Buffered Data Delivery Procedure Configuration Parameter Change events.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated in a similar way as proposed. Given that the changes affect three procedures and are a bit involved, I would appreciate if CSTS WG members could review the material and check if things are consistent.

AGENCY RID NUMBER: JVP-21

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 4-66 PARAGRAPH NUMBER: 4.8.4.2.2

RID SHORT TITLE: Sequence-Controlled DP PROCESS-DATA extension syntax

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Insert a new header, 4.8.4.2.3, Extension Parameters Syntax, immediately after 4.8.4.2.2.1.
2. Insert the following requirement immediately after the new 4.8.4.2.3:  
   “The type SequContrDataProcStartInvocExt, as defined in E3.10, shall define the syntax of the extension parameters of the invocation of the PROCESS-DATA operation.”
3. The current paragraphs 4.8.4.2.2.3 and 4.8.4.2.2.4 name extension syntaxes that add (according to their specifications in E3.10)a dataSequenceCounter parameter to both the positive and negative returns for the PROCESS-DATA operation. However, neither table 4-43 nor the specifications of the extension parameters mention the dataSequenceCounter parameter. The discrepancy must be resolved.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. The style adopted by the CSTS SFW has the extension parameter syntaxes grouped under a common heading.
2. The extension syntax exists, it just needs to be identified.
3. Does the dataSequenceCounter parameter exist or not?

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly for items 1) and 2).

For item 3) we may have a terminology issue and I’m open to suggestions. Fact is that only the Sequence-Controlled Data Processing procedure has the confirmed variant of the PROCESS-DATA operation. Is that toi be referred to as an extension? That return uses of course the Standard Return Header, but needs to also carry the sequence counter and therefore the standard return header needs to be extended as shown in E3.10. In the PROCESS-DATA invocation the generic parameter name data-unit-id is used. In the sequence-controlled variant of the procedure, the role of this parameter is a true sequence counter (see 4.8.2.2) and therefore we can use this more specific notion for the parameter in the return. I’ll be grateful for any suggestions how to deal with this in a way that is better than what we have in the document right now.

AGENCY RID NUMBER: JVP-22

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 3-6 PARAGRAPH NUMBER: 3.3.2

RID SHORT TITLE: Standard Operation Header

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Change the text in header 3.3.2.1 from “Invocation” to “General”, and add the following text under it:

“Table 3-1 identifies the parameters that appear in the invocation, acknowledgement, and return of the Standard Confirmed Operation Header. Table 3-2 identifies the parameters that appear in the invocation of the Standard Unconfirmed Operation Header. The following subsections specify each of these parameters.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The current content of 3.3.2.1 (Invocation) is inappropriate. It is followed by the tables that list the parameters of the acknowledgement and return (in addition to the invocation), and the following parameter specifications are for all parameters, not just those of the invocation.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-23

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: 4-69 PARAGRAPH NUMBER: 4.8.4.3.3

RID SHORT TITLE: data-processing-status Parameter Extension

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change the title of header 4.8.4.3.3 from “Parameter Extension” to “data-processing-status Parameter Extension”.
2. In 4.8.4.3.3.2, insert “parameter” after “the data-processing-status”.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

The reader currently has to read into the second subparagraph of section 4.8.4.3.3 to know what is being extended. Identifying the parameter in the title of the subsections is a bit more user-friendly.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-24

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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------------------------------------------------------------------

DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: C-2 PARAGRAPH NUMBER: C3.3

RID SHORT TITLE: externallyDefinedTypeAndValueExtension subtree

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Add the following sentence to the end of C3.3 (c):

“Each data type extension will be defined in the specification of the service that uses the new data type.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

There is currently no statement regarding how this branch is to be populated and documented.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-25

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

REVIEWER'S NAME: John Pietras

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: C-4 PARAGRAPH NUMBER: C3.4 (f)

RID SHORT TITLE: serviceGenericIdentifiers sub-branches

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Add the following sentence to the end of C3.4 (f): “There shall be three separate sub-branches under the serviceGenericIdentifiers branch, one for Parameters, one for Events, and one for Directives, as defined in E3.17.”
2. Add a NOTE following C3.4 (f): “Although the serviceGenericIdentifiers branch has a Directives subbranch, no service-generic directives have been defined as of this Issue of this Recommended Standard. The Directives sub-branch exists for possible use in future Issues of this Recommended Standard.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. Annex C is supposed to define the normative structure of the csts and crossSupportResources nodes under the css node. Specify that the Parameters, Events and Directives have their own sub-branches is the required organization (as opposed to, say, having them all intermixed and listed linearly under the serviceGenericIdentifiers branch).
2. Unlike some of the other Directives sub-branches which exist so that they can be populated for Functional Resources and derives procedures/services, this subbranch is available only for directives that are defined in the CSTS SFW. The presence of the sub-branch might lead someone to conclude that service-generic directives are specified somewhere in the book.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-26

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: C-3 PARAGRAPH NUMBER: C3.4 (e)

RID SHORT TITLE: FwProceduresFunctionalities sub-sub-branches

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Add the following sentence to the end of C3.4 (e): “Under each of the procedure-specific sub-branches of the FwProceduresFunctionalities branches, there shall be three separate sub-branches, one for Parameters, one for Events, and one for Directives, as defined in E3.16.”
2. Add a NOTE following C3.4 (e): “Although each of the procedure-specific sub-branches under the FwProceduresFunctionalities branch has its own Directives subbranch, no framework procedure-specific directives have been defined as of this Issue of this Recommended Standard. These Directives sub-branches exists for possible use in future Issues of this Recommended Standard.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. Annex C is supposed to define the normative structure of the csts and crossSupportResources nodes under the css node. Specify that the Parameters, Events and Directives have their own sub-branches is the required organization (as opposed to, say, having them all intermixed and listed linearly under each of the procedure-specific subnodes of the FwProceduresFunctionalities branch).
2. Unlike some of the other Directives sub-branches which exist so that they can be populated for Functional Resources and derives procedures/services, these procedure-specific subbranches are available only for directives that are defined in the CSTS SFW. The presence of the sub-branches might lead someone to conclude that FW procedure directives are specified somewhere in the book.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-27

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

REVIEWER'S NAME: John Pietras

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-7, E-10 PARAGRAPH NUMBER: E3.3

RID SHORT TITLE: Merge Diagnostics Type into Standard Return Header and Fix “Diagnostic” Parameter Name

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Delete the separate Diagnostics type.
2. In the StandardReturnHeader type, change:

{ diagnostics Diagnostics -- Note: Diagnostic is

-- extendable

To

{ diagnostic CHOICE -- Note: diagnostic is extendable

{ invalidParameterValue [1] SEQUENCE

{ text AdditionalText

, appelation Appelation -- of the invalid parameter

}

, conflictingValues [2] SEQUENCE

{ text AdditionalText

, appelations SEQUENCE OF Appelation

}

, otherReason [3] AdditionalText

, unsupportedOption [4] AdditionalText

, diagnosticsExtension [100] Extended -- The default value for the

-- diagnosticsExtension

–- parameter is ‘notUsed’.

–- Unless a PDU that uses

–- the Standard Return

–- Header explicitly defines

–- an extension type to be

–- used as the value of

–- diagnosticsExtension for

–- that PDU, the value shall

–- ‘be notUsed’.

}

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. The type Diagnostics is used only in the Standard Return Header. Combining the type definition into the Standard Return Header type removes one level of indirection. Also, it helps solve a problem of inconsistency that exists in the diagnostic extension specifications multiple paces in the ASN.1 – see RID NASA-JPL-JVP-28, Incorrect Identification of Diagnostics Extension Points in ASN.1.
2. The name of the parameter of the Standard Return Header is “diagnostic”, not “diagnostics” (see 3.3.2).
3. This default assumption may be stated or alluded to in other parts of the specification, but stating it explicitly here helps the implementer know what value to use for this parameter when it is not otjhewise mentioned in the individual PDU specifications. Otherwise, it might be necessary to state the ‘notUsed’ value for every return PDU definition.

------------------------------------------------------------------

DISPOSITION:

From a purely technical perspective I’m also in favor of the modification suggested here. However, before going ahead and actually implementing it, I would like to have the impact on the prototyping activities assessed. If the implementers of the prototypes can accommodate this late change, I’ll go ahead and implement it.

AGENCY RID NUMBER: JVP-28

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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------------------------------------------------------------------

DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-14, E-15, E-16, E-19, E-22, E-24, E-33, E-37, E-39, E-41

PARAGRAPH NUMBER: E3.4, E3.5, E3.6, E3.7, E3.10, E3.12, E3.13, E3.14

RID SHORT TITLE: Incorrect Identification of Diagnostics Extension Points in ASN.1

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. In the comments that describe the ExecDirNegAckDiagnosticsExt (E3.4) diagnostic extension type, change:  
   (StandardReturnHeader):result:negative:diagnostics:diagnosticsExtension  
   To  
   (StandardReturnHeader):result:negative:diagnostic:diagnosticsExtension
2. In the comments that describe each of the following the diagnostic extension types;  
   ExecDirNegReturnDiagnosticsExt (E3.4), GetDiagnosticsExt (E3.4), StartDiagnosticsExt (E3.4), BuffDataDelStartDiagnosticsExt (E3.7), SequContrDataProcProcDataDiagnosticsExt (E3.10), CyclicReportStartDiagnosticsExt (E3.12), NotificationStartNegReturnDiagnosticsExt (E3.13)  
   Change:  
   (StandardReturnHeader):result:negative:diagnostics:extensionDiagnostics  
   To  
   (StandardReturnHeader):result:negative:diagnostic:diagnosticsExtension
3. In the comments that describe the STOP negative result in E3.4, change:  
   (StandardReturnHeader):result:negative:diagnostics   
   To  
   (StandardReturnHeader):result:negative:diagnostic
4. In the comments that describe the AssocBindDiagnosticsExt (E3.5)diagnostic extension type, change:  
   (StandardReturnHeader):result:negative:Diagnostics:extensionDiagnostics  
   To  
   (StandardReturnHeader):result:negative:diagnostic:diagnosticsExtension
5. In the comments that describe the START negative return in E3.6  
   Change:  
   StartDiagnosticsExt:extensionDiagnostic   
   To  
   StartDiagnosticsExt:StartDiagnosticsExtExtension
6. In the comments that describe the STOP negative returns in E3.6, E3.7, andE3.12, change:  
   StandardReturnHeader:result:negative:diagnostics:diagnosticsExtension  
   To  
   StandardReturnHeader:result:negative:diagnostic:diagnosticsExtension
7. In the comments that describe the EXECUTIVE DIRECTIVE negative return in E3.14, change:  
   ExecDirNegReturnDiagnosticsExt:extensionDiagnostic  
   To  
   ExecDirNegReturnDiagnosticsExt: ExecDirNegReturnDiagnosticsExtExtension

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. The name of the parameter is “diagnostic”, not “diagnostics” (see RID NASA-JPL-JVP-27, Merge Diagnostics Type into Standard Return Header and Fix “Diagnostic” Parameter Name.
2. a) The name of the parameter is “diagnostic”, not “diagnostics”.   
   b) The name of the extension parameter is “diagnosticsExtension”, not “extensionDiagnostics”.
3. The name of the parameter is “diagnostic”, not “diagnostics”.
4. a) The name of the parameter is “diagnostic”, not “diagnostics”.   
   b) “Diagnostics” is the type. The instance that is being extended is the diagnostic parameter of the Standard Return Header. NOTE – accepting RID NASA-JPL-JVP 27, Merge Diagnostics Type into Standard Return Header and Fix “Diagnostic” Parameter Name, would help in this case by removing the distinction between the separate Diagnostics type and the diagnostics parameter.   
   c) The name of the extension parameter is “diagnosticsExtension”, not “extensionDiagnostics”.
5. Per the definition of the StartDiagnosticsExt type in E3.4.
6. The name of the parameter is “diagnostic”, not “diagnostics”.
7. Per the definition of the ExecDirNegReturnDiagnosticsExt type in E3.4.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated with modifications

Item 1):

Disregarding for now RID JVP-27, the implementation of which will depend on the impact of the suggested ASN.1 changes on the prototypes, the name of the parameter is “diagnostics” and as such this part of the RID is rejected. However, I agree that “diagnostic” is more appropriate as this StandardReturnHeader parameter will always carry exactly one of the permissible values, i.e., a single diagnostic. Also this is consistent with the main body of the document. In view of that I have updated the StandardReturnHeader type specification and the other places in the document that are affected by this change.

Item 5):

The new text reads:

StartDiagnosticsExt:startDiagnosticsExtExtension

Item 7):

The new text reads:

ExecDirNegReturnDiagnosticsExt:execDirNegReturnDiagnosticsExtExtension

AGENCY RID NUMBER: JVP-29

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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------------------------------------------------------------------

DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: Numerous in annex E PARAGRAPH NUMBER: Annex E

RID SHORT TITLE: Incorrect cross reference for Diagnostics type

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Correct the erroneous references to 3.3.2.6.2 as the place where diagnostics are defined from 3.3.2.6.2 to 3.3.2.7.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Section 3.3.2.6.2 is ‘positive-result’, and has nothing to do with diagnostics. Section 3.3.2.7 is the description of the diagnostic parameter.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

The equivalent correction has been applied to several places in section 3.

AGENCY RID NUMBER: JVP-30

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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------------------------------------------------------------------

DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-8, E-9, PARAGRAPH NUMBER: E3.3

RID SHORT TITLE: Name Functional Resource Name, and Procedure Instance ID types

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change the definition of the Name type from:

Name ::= SEQUENCE

{ functionalResourceName CHOICE

{ crossSupportResourceName [0] FunctionalResourceName

, frameworkResourceName [1] ProcedureInstanceId

}

, paramOrEventId PublishedIdentifier

}

To

Name ::= SEQUENCE

{ functionalResourceName FRorProcedureName

, paramOrEventId PublishedIdentifier

}

1. Change the definition of the ListOfParamEventsDiagnostics type from:

ListOfParamEventsDiagnostics ::= CHOICE

{ unknownFunctionalResourceName [1] FRorProcedureName

, unknownFunctionalResourceType [2] FunctionalResourceType

, unknownParamEventIdentifier [3] SEQUENCE OF CHOICE

{ paramEventName [1] Name

, paramEventLabel [2] Label

}

, unknownListName [4] VisibleString

, undefinedDefault [5] AdditionalText

, unknownProcedureType [6] ProcedureType

, unknownProcedureInstanceId [7] FRorProcedureName

, outOfRange [8] AdditionalText

}

To

ListOfParamEventsDiagnostics ::= CHOICE

{ unknownFunctionalResourceName [1] FunctionalResourceName

, unknownFunctionalResourceType [2] FunctionalResourceType

, unknownParamEventIdentifier [3] SEQUENCE OF CHOICE

{ paramEventName [1] Name

, paramEventLabel [2] Label

}

, unknownListName [4] VisibleString

, undefinedDefault [5] AdditionalText

, unknownProcedureType [6] ProcedureType

, unknownProcedureInstanceId [7] ProcedureInstanceID

, outOfRange [8] AdditionalText

}

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. The current definition of the Name type is confusing  because it assigns multiple types in the ASN.1 to “functionalResouceName”: in ListOfParametersEvents  it is of type FunctionalResourceName, but in Name it is a choice  between FunctionalResourceName and ProcedureInstanceId. It iis bad form to allow a parameter that has the same name as a type to be something other than that type. The proposed redefinition of the Name type uses the existing FRorProcedureName type,( defined as

FRorProcedureName ::= CHOICE

{ functionalResourceName [0] FunctionalResourceName

, procedureInstanceId [1] ProcedureInstanceId

})

to preserve the identification of “functionalResourceName” with the FunctionalResourceName type and simplify the definition of the Name type.

1. In the current ListOfParamEventsDiagnostics type definition both unknownFunctionalResourceName and unknownProcedureInstanceId are cast as FRorProcedureName. This adds options were there really aren’t any. unknownFunctionalResourceName should be cast directly as type FunctionalResourceName (why even open the possibility of it being accidentally given a procedure instance ID value?) and unknownProcedureInstanceId should be cast directly as type ProcedureInstanceId.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

I consider the impact on the prototypes minor, but that should be confirmed before we regard this RID closed.

AGENCY RID NUMBER: JVP-31

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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------------------------------------------------------------------

DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-38 PARAGRAPH NUMBER: E3.13

RID SHORT TITLE: Wrong Procedures Referenced in the Notification PDUs Module

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change the comment line:  
   “-- the operations used by the Unbuffered Data Delivery procedure.”  
   To  
   “-- the operations used by the Notification procedure.”
2. Change the comment line:  
   “-- of the Buffered Data Delivery procedure.”  
   To  
   “-- of the Notification procedure.”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_\_\_ Editorial \_X\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Looks like a cut-and-paste error.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-32

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: J-2 PARAGRAPH NUMBER: Annex J

RID SHORT TITLE: Space Assigned Numbers Authority

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

From:

“Space Assigned Number Authority”

To

“Space Assigned Numbers Authority”

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_\_\_ Editorial \_X\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-33

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-18, E-19 PARAGRAPH NUMBER: E3.5

RID SHORT TITLE: Include responderIdentifier in BindReturn

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change the BindReturn type definition from:  
   BindReturn ::= StandardReturnHeader  
     
   To  
   BindReturn ::= SEQUENCE  
   { standardReturnHeader StandardReturnHeader  
   , responderIdentifier AuthorityIdentifier  
   }
2. Change the definition of the positive BindReturn from:  
   -- The positive BindReturn is returned using the positive result   
   -- of the StandardReturnHeader (see 3.3),   
   -- (StandardReturnHeader:result:positive)defined as Extended and   
   -- carrying the following information:   
   AssocBindPosReturnExt ::= SEQUENCE  
   { responderIdentifier AuthorityIdentifier   
   , assocBindPosReturnExtExtension Extended  
   }  
   To  
   -- The positive BindReturn is returned using the positive result   
   -- of the StandardReturnHeader (see 3.3), where  
   -- (StandardReturnHeader:result:positive)carries the Extended value  
   -- set to ‘notUsed’.  
     
   acBindPosReturnExt OBJECT IDENTIFIER ::= {acExtProcedureParam 1}
3. Change the definition of the negative BindReturn from:  
   -- The negative BindReturn is returned using the negative extension   
   -- [of the] of the StandardReturnHeader (see 3.3),   
   -- (StandardReturnHeader:result:negative:extended)defined as Extended and  
   -- carrying the following information:   
   AssocBindNegReturnExt ::= SEQUENCE  
   { responderIdentifier AuthorityIdentifier   
   , assocBindNegReturnExtExtension Extended  
   }  
   acBindPNegReturnExt OBJECT IDENTIFIER ::= {acExtProcedureParam 3}  
     
   To  
   -- The negative BindReturn is returned using the negative result   
   -- of the StandardReturnHeader (see 3.3), where  
   -- (StandardReturnHeader:result:negative:negExtension)carries the   
   -- Extended value set to ‘notUsed’.
4. Change:  
   acBindDiagnosticsExt OBJECT IDENTIFIER ::= {acExtProcedureParam 2}  
     
   To:  
   acBindDiagnosticsExt OBJECT IDENTIFIER ::= {acExtProcedureParam 1}

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. Responder Identifier is a parameter that is common to all BIND returns. There is no difference in the value that is returned in a positive return vs. negative return.
2. Putting responderIdentifier in the BondReturn type eliminates the need for the separate positive and negative return extensions, simplifying implementation of the BindReturn.

NOTE – If this RID is not accepted, there is still a technical error in the description of the extension point that must be extended for the negative return. Instead of

(StandardReturnHeader:result:negative:extended)

It must be

(StandardReturnHeader:result:negative:negExtension)

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

I have not checked yet if this has an impact on other places in the document.

AGENCY RID NUMBER: JVP-34

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-14, E-15, E-16 PARAGRAPH NUMBER: E3.4

RID SHORT TITLE: Common Operation PDU extensions

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change:

-- EXECUTE DIRECTIVE positive acknowledgement does not extend the

-- ExecuteDirectiveAcknowledge(StandardAcknowledgeHeader

-- (StandardReturnHeader)):positive:extended

-- set to NULL

To:

-- EXECUTE DIRECTIVE positive acknowledgement does not extend the

-- ExecuteDirectiveAcknowledge(StandardAcknowledgeHeader

-- (StandardReturnHeader)):positive set to ‘notUsed’

1. Change:

-- EXECUTE DIRECTIVE positive return does not extend the

-- ExecuteDirectiveReturn(see 3.13)

-- ExecuteDirectiveReturn(StandardReturnHeader):result:positive set to

-- NULL

To:

-- EXECUTE DIRECTIVE positive return does not extend the

-- ExecuteDirectiveReturn(see 3.13)

-- ExecuteDirectiveReturn(StandardReturnHeader):result:positive

-- set to ‘notUsed’

1. Change:

-- GET positive return: makes use of the positive result

-- of the GetReturn(StandardReturnHeader):result:positive defined as

-- Extended and carrying the list-of-parameters-values information defined

To:

-- GET positive return: makes use of the positive result

-- of the GetReturn(StandardReturnHeader):result:positive defined as

-- Extended and carrying the qualified-parameters-values information defined

1. Change:

-- START negative result: makes use of one of the common diagnostics

To:

-- START negative return: makes use of one of the common diagnostics

1. Change:

-- STOP negative result: makes use of one of the common diagnostics

To:

-- STOP negative return: makes use of one of the common diagnostics

-- negExtension parameter of the negative result:

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. There is no extended parameter within the positive parameter. The value of the positive parameter (cast as Extended) is ‘notUsed’, not NULL (even though notUsed is then cast as NULL bt Extended).
2. The value of the positive parameter (cast as Extended) is ‘notUsed’, not NULL.
3. The extension adds a qualifiedParameters parameter,, not listOfParamaters.
4. The PDU is Start negative return, not Start negative result.
5. The PDU is Stop negative return, not Start negative result.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

I still need to verify if the new text for item 5) is really correct.

AGENCY RID NUMBER: JVP-35

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-10 PARAGRAPH NUMBER: E3.3

RID SHORT TITLE: Default value for negExtension Parameter

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

In the definition of the StandardReturnHeader type, change

, negExtension Extended

}

To:

, negExtension Extended –- The default value for the negExtension

–- parameter is ‘notUsed’. Unless a PDU that

–- uses the Standard Return Header explicitly

–- defines an extension type to be used as the

–- value of negExtension for that PDU, the value

–- shall be ‘notUsed’.

}

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_\_\_ Recommended \_X\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

This default assumption may be stated or alluded to in other parts of the specification, but stating it explicitly here helps the implementer know what value to use for this parameter when it is not otjhewise mentioned in the individual PDU specifications. Otherwise, it might be necessary to state the ‘notUsed’ value for every return PDU definition.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-36

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-21, E-22 PARAGRAPH NUMBER: E3.6

RID SHORT TITLE: Extension Specifications for Unbuffered Data Delivery PDUs

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change

-- START Invocation

-- No extension, StartInvocation:extensionParameter set to ‘notUsed’.

To:

-- START Invocation

-- No extension, StartInvocation:startInvocationExtension set to ‘notUsed’.

1. Change

-- START negative return

-- No extension, StandardReturnHeader:result:negative:extended set

-- to ‘notUsed’.

To:

-- START negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set

-- to ‘notUsed’.

1. Change

-- TRANSFER-DATA

-- No extension, TransferDataInvocation:extensionParameter set to

-- ‘notUsed’.

To:

-- TRANSFER-DATA

-- No extension, TransferDataInvocation:TransferDataInvocationExtension set

-- to ‘notUsed’.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Text must point to the correct extension parameters.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated accordingly.

AGENCY RID NUMBER: JVP-37

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-24, E-25, E-26 PARAGRAPH NUMBER: E3.7

RID SHORT TITLE: Extension Specifications for Buffered Data Delivery PDUs

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change

-- START Invocation extension with start and stop generation times

-- Extended type: StartInvocation defined in E3.4

-- StartInvocation:extensionParameter

To:

-- START Invocation extension with start and stop generation times

-- Extended type: StartInvocation defined in E3.4

-- StartInvocation: StartInvocationExtension

1. Change

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:extended set

-- to ‘notUsed’.

To:

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set

-- to ‘notUsed’.

1. Change

-- TRANSFER-DATA

-- No extension, TransferDataInvocation:extensionParameter set to

-- ‘notUsed’.

To:

-- TRANSFER-DATA

-- No extension, TransferDataInvocation:TransferDataInvocationExtension set

-- to ‘notUsed’.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Text must point to the correct extension parameters.

------------------------------------------------------------------

DISPOSITION:

Accepted with modifications:

Update for item 1) modified to read:

-- START Invocation extension with start and stop generation times

-- Extended type: StartInvocation defined in E3.4

-- StartInvocation:startInvocationExtension

Update for item 3) modified to read:

-- TRANSFER-DATA

-- No extension, TransferDataInvocation:transferDataInvocationExtension set

-- to ‘notUsed’.

AGENCY RID NUMBER: JVP-38

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-27, E-28 PARAGRAPH NUMBER: E3.8

RID SHORT TITLE: Extension Specifications for Data Processing PDUs

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change

-- START Invocation extension with start and stop generation times

-- Extended type: StartInvocation defined in E3.4

-- StartInvocation:extensionParameter

To:

-- START Invocation extension with start and stop generation times

-- Extended type: StartInvocation defined in E3.4

-- StartInvocation: StartInvocationExtension

1. Change

-- START negative return

-- No extension, StandardReturnHeader:result:negative:extended set

-- to ‘notUsed’.

To:

-- START negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set

-- to ‘notUsed’.

1. Change

-- STOP Invocation extension with start and stop generation times

-- Extended type: StopInvocation defined in E3.4

-- StopInvocation:extensionParameter

To:

-- STOP Invocation extension with start and stop generation times

-- Extended type: StopInvocation defined in E3.4

-- StopInvocation:StopInvocationExtension

1. Change

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:extended set

-- to ‘notUsed’.

To:

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set

-- to ‘notUsed’.

1. Change

-- PROCESS-DATA invocation extension with process-completion-report

-- Extended Type: ProcessDataInvocation defined in E3.4

-- ProcessDataInvocation:extensionParameter

To:

-- PROCESS-DATA invocation extension with process-completion-report

-- Extended Type: ProcessDataInvocation defined in E3.4

-- ProcessDataInvocation: ProcessDataInvocationExtension

1. Change

-- NOTIFY invocation extension with additional parameters.

-- Extended type: NotifyInvocation defined in E3.4.

-- NotifyInvocation:extensionParameter

To:

-- NOTIFY invocation extension with additional parameters.

-- Extended type: NotifyInvocation defined in E3.4.

-- NotifyInvocation: NotifyInvocationExtension

1. Change

-- NOTIFY invocation extension of dataProcessingStatus: no extension,

-- i.e., statusExtension set to ‘notUsed’.

To:

-- NOTIFY invocation extension of dataProcessingStatus: no extension,

-- i.e., dataProcessinStatusExtension set to ‘notUsed’.

1. What is the extension parameter that is being extended by the DataProcNotifyInvocExt extension type?

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Text must point to the correct extension parameters.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated with modifications:

Update for item 1) modified to read:

-- START Invocation extension with start and stop generation times

-- Extended type: StartInvocation defined in E3.4

-- StartInvocation:startInvocationExtension

Update for item 3) modified to read:

-- STOP Invocation extension with start and stop generation times

-- Extended type: StopInvocation defined in E3.4

-- StopInvocation:stopInvocationExtension

Update for item 5) modified to read:

-- PROCESS-DATA invocation extension with process-completion-report

-- Extended Type: ProcessDataInvocation defined in E3.4

-- ProcessDataInvocation:processDataInvocationExtension

Update for item 6) modified to read:

-- NOTIFY invocation extension with additional parameters.

-- Extended type: NotifyInvocation defined in E3.4.

-- NotifyInvocation:notifyInvocationExtension

Update for item 7) modified to read:

-- NOTIFY invocation extension of dataProcessingStatus: no extension,

-- i.e., dataProcessingStatusExtension set to ‘notUsed’.

Item 8):

On page E-27 it is stated that notificationInvocationExtension gets extended. The type specification is DataProcNotifyInvocExt. In this particular case, this may be not so obvious as the type specification is preceded by the additional information that dataProcessingStatusExtension is set to ‘notUsed’. Putting that information at a different place would be confusing. Any suggestion how we can make it more obvious that DataProcNotifyInvocExt is the type specification of notificationInvocationExtension?

AGENCY RID NUMBER: JVP-39

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-30, E-28 PARAGRAPH NUMBER: E3.9

RID SHORT TITLE: Extension Specifications for Buffered Data Processing PDUs

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change

-- START Invocation extension with start and stop generation times

-- Extended type: StartInvocation defined in E3.4

-- StartInvocation:extensionParameter

To:

-- START Invocation extension with start and stop generation times

-- Extended type: StartInvocation defined in E3.4

-- StartInvocation: StartInvocationExtension

1. Change

-- START negative return

-- No extension, StandardReturnHeader:result:negative:extended set

-- to ‘notUsed’.

To:

-- START negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set

-- to ‘notUsed’.

1. Change

-- STOP Invocation extension with start and stop generation times

-- Extended type: StopInvocation defined in E3.4

-- StopInvocation:extensionParameter

To:

-- STOP Invocation extension with start and stop generation times

-- Extended type: StopInvocation defined in E3.4

-- StopInvocation: StopInvocationExtension

1. Change

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:extended set

-- to ‘notUsed’.

To:

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set

-- to ‘notUsed’.

1. Change

-- PROCESS-DATA invocation extension with process-completion-report

-- Extended Type: ProcessDataInvocation defined in E3.4

-- ProcessDataInvocation:extensionParameter as defined in E3.8.

To:

-- PROCESS-DATA invocation extension with process-completion-report

-- Extended Type: ProcessDataInvocation defined in E3.4

-- ProcessDataInvocation: ProcessDataInvocationExtension as defined in E3.8.

1. Change

-- NOTIFY Invocation extension is inherited from the the Data Processing

-- procedure. The extensions are defined in E3.8. No further extension is

-- applied, i.e., statusExtension set to ‘notUsed’.

To:

-- NOTIFY Invocation extension is inherited from the the Data Processing

-- procedure. The extensions are defined in E3.8. No further extension is

-- applied, i.e., dataProcessingStatusExtension set to ‘notUsed’.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Text must point to the correct extension parameters.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated with modifications.

Update for item 1) modified to read:

-- START Invocation extension with start and stop generation times

-- Extended type: StartInvocation defined in E3.4

-- StartInvocation:startInvocationExtension

Update for item 3) modified to read:

-- STOP Invocation extension with start and stop generation times

-- Extended type: StopInvocation defined in E3.4

-- StopInvocation:stopInvocationExtension

Update for item 5) modified to read:

-- PROCESS-DATA invocation extension with process-completion-report

-- Extended Type: ProcessDataInvocation defined in E3.4

-- ProcessDataInvocation:processDataInvocationExtension as defined in E3.8.

Update for item 6) modified to read:

-- NOTIFY Invocation extension is inherited from the Data Processing

-- procedure. The extensions are defined in E3.8. No further extension is

-- applied, i.e., dataProcessingStatusExtension set to ‘notUsed’.

AGENCY RID NUMBER: JVP-40

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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------------------------------------------------------------------

DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-32, E-33, E-34 PARAGRAPH NUMBER: E3.10

RID SHORT TITLE: Extension Specifications for Sequence-Controlled Data Processing PDUs

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change

-- START Invocation extension with first-data-sequence-counter

-- This extension applies to the StartInvocation

-- (extensionParameter) type defined in E3.4.

To:

-- START Invocation extension with first-data-sequence-counter

-- This extension applies to the StartInvocation: StartInvocationExtension

-- parameter defined in E3.4.

1. Change

-- START negative return

-- No extension, StandardReturnHeader:result:negative:extended set

-- to ‘notUsed’.

To:

-- START negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set

-- to ‘notUsed’.

1. Change

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:extended set

-- to ‘notUsed’.

To:

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set

-- to ‘notUsed’.

1. Change

-- PROCESS-DATA invocation extension with process-completion-report

-- Extended Type: ProcessDataInvocation defined in E3.4

-- ProcessDataInvocation:extensionParameter as defined in E3.8.

-- This is further extended with earliest-data-processing-time

-- and latest-data-processing-time

-- Extended Type: DataProcProcDataInvocExt:extensionParameter

-- defined in E3.8.

To:

-- PROCESS-DATA invocation extension with process-completion-report

-- Extended Type: ProcessDataInvocation defined in E3.4

-- ProcessDataInvocation:processDataInvocationExtension as defined in E3.8.

-- This is further extended with earliest-data-processing-time

-- and latest-data-processing-time

-- Extended parameter:

-- DataProcProcDataInvocExt:DataProcProcDataInvocExtExtension

-- defined in E3.8.

1. Change

-- 2. The extension parameter always carries the

-- data sequence counter of the next expected data.

-- ProcessDataReturn(StandardReturnHeader):result:negative:extended

To:

-- 2. The extension parameter always carries the

-- data sequence counter of the next expected data.

-- ProcessDataReturn(StandardReturnHeader):result:negative:negExtension

1. Change

-- NOTIFY Invocation extension is inherited from the the Data Processing

-- procedure. The extensions are defined in E3.8.

-- Here statusExtension of the DataProcNotifyInvocExt is extended with the

-- following type:

To:

-- NOTIFY Invocation extension is inherited from the Data Processing

-- procedure. The extensions are defined in E3.8.

-- Here dataProcessingStatusExtension of the DataProcNotifyInvocExt is

-- extended with the following type:

1. Change

-- EXECUTIVE-DIRECTIVE invocation

-- ExecuteDirectiveInvocation:directiveIdentifier:Published

-- Identifier set to {pSCDPdirectivesId 1}.

-- ExecuteDirectiveInvocation:directiveQualifier:extended to:

To:

-- EXECUTE-DIRECTIVE invocation

-- ExecuteDirectiveInvocation:directiveIdentifier:Published

-- Identifier set to {pSCDPdirectivesId 1}.

-- ExecuteDirectiveInvocation:directiveQualifier:directiveQualifierExtension

-- to:

1. Change

-- EXECUTIVE-DIRECTIVE positive acknowledgement

-- No extension,

-- StandardAcknowledgeHeader(:StandardReturnHeader)result:positive set to

-- NULL

To:

-- EXECUTE-DIRECTIVE positive acknowledgement

-- No extension,

-- StandardAcknowledgeHeader(:StandardReturnHeader)result:positive set to

-- ‘notUsed’

1. Change

-- EXECUTIVE-DIRECTIVE negative acknowledgement

-- No extension,

-- StandardAcknowledgeHeader:(StandardReturnHeader)result:negative:

-- extended set to NULL

To:

-- EXECUTE-DIRECTIVE negative acknowledgement

-- No extension,

-- StandardAcknowledgeHeader:(StandardReturnHeader)result:negative:

-- negExtension set to ‘notUsed’

1. Change

-- EXECUTIVE-DIRECTIVE positive return

-- No extension, StandardReturnHeader:result:negative:extended set to NULL

To:

-- EXECUTIVE-DIRECTIVE positive return

-- No extension, StandardReturnHeader:result:positive set to ‘notUsed’

1. Change

-- EXECUTIVE-DIRECTIVE negative return

-- No extension, StandardReturnHeader:result:negative:extended set to NULL

To:

-- EXECUTIVE-DIRECTIVE negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set to

-- ‘notUsed’

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

1. Text must point to the correct extension parameters
2. The operation is EXECUTE-DIRECTIVE, not EXECUTIVE-DIRECTIVE.
3. The “no-op” value of the Extended type is ‘notUsed’, not NULL.

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated with modifications.

Update for item 1) modified to read:

-- START Invocation extension with first-data-sequence-counter

-- This extension applies to the StartInvocation:startInvocationExtension

-- parameter defined in E3.4.

Update for item 4) modified to read:

-- PROCESS-DATA invocation extension with process-completion-report

-- Extended Type: ProcessDataInvocation defined in E3.4

-- ProcessDataInvocation: ProcessDataInvocationExtension as defined in E3.8.

-- This is further extended with earliest-data-processing-time

-- and latest-data-processing-time

-- Extended parameter:

-- DataProcProcDataInvocExt:dataProcProcDataInvocExtExtension

-- defined in E3.8.

Update for item 7) modified to read:

-- EXECUTE-DIRECTIVE invocation

-- ExecuteDirectiveInvocation:directiveIdentifier:Published

-- Identifier set to {pSCDPdirectivesId 1}.

-- ExecuteDirectiveInvocation:directiveQualifier:directiveQualifierExtension

-- extended with:

AGENCY RID NUMBER: JVP-41

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

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------------------------------------------------------------------

DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-37 PARAGRAPH NUMBER: E3.12

RID SHORT TITLE: Extension Specifications for Cyclic Report PDUs

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

1. Change

-- START Invocation extension with delivery cycle and the

-- list of parameters.

-- Considering that the UnbufferedDataDelivery procedure does not

-- extend the StartInvocation, this extension applies directly to

-- StartInvocation:extensionParameter type defined in E3.12

To:

-- START Invocation extension with delivery cycle and the

-- list of parameters.

-- Considering that the UnbufferedDataDelivery procedure does not

-- extend the StartInvocation, this extension applies directly to

-- StartInvocation: startInvocationExtension parameter defined in E3.12

1. Change

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:extended set

-- to ‘notUsed’.

To:

-- STOP negative return

-- No extension, StandardReturnHeader:result:negative:negExtension set

-- to ‘notUsed’.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_\_\_ Editorial \_\_\_

NOTES:

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Text must point to the correct extension parameters

------------------------------------------------------------------

DISPOSITION:

Accepted and document updated with modifications.

Update for item 1) modified to read:

-- START Invocation extension with delivery cycle and the

-- list of parameters.

-- Considering that the UnbufferedDataDelivery procedure does not

-- extend the StartInvocation, this extension applies directly to

-- StartInvocation:startInvocationExtension defined in E3.12.

AGENCY RID NUMBER: JVP-42

SUBMITTING ORGANIZATION (Agency, Center): NASA JPL

------------------------------------------------------------------

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DOCUMENT NUMBER: CCSDS 921.1-R-2 Red Book, Issue 2

DOCUMENT NAME: Cross Support Transfer Service – Specification   
 Framework

DATE ISSUED: March 2014

PAGE NUMBER: E-9 PARAGRAPH NUMBER: E3.3

RID SHORT TITLE: NotificationType Event Value extension

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Clarify how new events that conform to the (Event Name:Event Value) model can add new events with Event Values that are not in the existing list.

The NotificationType is currently defined as:

NotificationTypes ::= SEQUENCE

{ eventName Name

, eventValue CHOICE

{ text [0] VisibleString

, bddConfigurationChange [1] BddConfigurationChange

, dpConfigurationChange [2] BufferSize

, bdpConfigurationChange [3] BdpConfigurationChange

, scdpConfigurationChange [4] BufferSize

, empty [5] NULL

}

, notificationTypesExtension Extended

}

Two cases must be considered. The first case is that of notifications emitted by procedures that are derived from Framework procedures. From the definition above it does not appear possible for a derived procedure to easily add a new events with an Event Value that is not already in the CHOICE list. The only way to do it appears to be to set eventName to ‘empty’ and extend the notificationTypesExtension parameter to include what is essentially the event value (although it can’t be called that).

For procedure-specific events such as those currently listed in the type definition, an eventValueExtension (of type Extended) could be added to the eventValue CHOICE. This would allow new event value types to appear as Event Values. This would appear to solve the problem for the first case.

The second case is the more general case of Functional Resource-related events, which will be defined outside of any CSTS specification (and therefore cannot be added by the ASN.1 extension approach).

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE:

Technical Fact \_X\_ Recommended \_ \_ Editorial \_\_\_

NOTES:

TECHNICAL FACT: Major technical change of sufficient magnitude as to

render the Recommendation inaccurate and unacceptable if not

corrected. (Supporting analysis/rationale is essential.)

RECOMMENDED: Change of a nature that would, if incorporated, produce

a marked improvement in document quality and acceptance.

EDITORIAL: Typographical or other factual error needing correction.

(This type of change will be made without feedback to submitter.)

------------------------------------------------------------------

SUPPORTING ANALYSIS:

------------------------------------------------------------------

DISPOSITION:

For now deferred to the meeting.

I agree that for cases where the presently offered choices in terms of event values is not sufficient, it is more appropriate to permit the extension of eventValue rather than using the notificationTypesExtension which as stated could be (mis-)used for the implementation of additional eventValue choices, but is not really appropriate. Making eventValue extensible is straight forward. However, looking at the second case where events get specified for Functional Resources outside the CSTS specification, it appears that I’m missing the point. Why can this not be dealt with by means of the extension mechanism that we have in place?

Once that point is clarified, we will certainly reach consensus on how to modify the document and I’ll then go ahead and implement the necessary changes.

Improved wording of 1.5.2

Disposition:

Accepted and document updated accordingly.

Ambiguity regarding the conditions for generating an ‘end of data’ notification.

Accepted and document updated accordingly. Also the editorial issues in 4.5.3.5 have been corrected.

RID 01 David Zoller / Tom Wickline

Change Variable Name to scdpProcDataNegReturnExt

Disposition:

Accepted and document updated accordingly.

RID 02 David Zoller / Tom Wickline

Change variable name to dataUnitId

Disposition:

To be discussed.

The proposed change of the name of the variable is perfectly feasible, but dataSequenceCounter (datasequenceCounter was a typo and has been corrected) has been used intentionally for the return of the PROCESS-DATA operation as to emphasize that in the Sequence-Controlled Data Processing procedure as opposed to the DP and BDP the PROCESS-DATA is a confirmed operation and the semantic of what in the other procedures is simply a data unit id here is a true sequence counter. If this is considered to be more confusing than helpful, I’ll be happy to implement the proposed change. For now, I have not modified the document except for the above mentioned typo.

RID 03 David Zoller / Tom Wickline

Optional Time

Note: RID ESA-24 addresses the same problem.

Disposition:

Accepted. A suitable type definition already existed in the ASN.1 (ConditionalTime), but has erroneously not been used. The document has been corrected using the ConditionalTime type.

ESA-01

Duplicate paragraphs in 2.7.4

Disposition:

To be discussed. I completely agree with the observation. However, given that this part of the document deals with security and has been blessed as is by the Security WG, I’m reluctant to implement any changes, as then we need to go back to them and get the revised material agreed.

ESA-02

Confusing paragraph (duplicate text)

Disposition:

Agreed and document updated accordingly.

ESA-03

Duplicate figures

Note: Same problem addressed in RID NASA-JPL-JVP-2

Disposition:

Accepted and document updated accordingly.

ESA-04

Redundant requirement

Disposition:

Rejected and document left unchanged. The requirements stated in 4.5.4.1.2.2.2 apply to the real-time delivery mode only. However, requirement 4.5.4.1.2.2.5 applies to complete delivery mode. Therefore the two requirements address different cases and are not redundant.

ESA-05

Redundant requirement

Disposition:

Rejected and document left unchanged. Similar to the case addressed in RID ESA-04, also here 4.5.4.1.2.3.2 deals with the real-time scenario while 4.5.4.1.2.3.3 addresses the complete delivery mode scenario. Therefor both requirements are needed.

ESA-06

Incorrect indentation

Disposition:

The indentation problem had been corrected by Tom, but now the paragraph spacing was not correct. The document has been modified accordingly.

ESA-07

Parameter Labels in combination with procedure types

Disposition:

Accepted and document updated accordingly.

ESA-08

Parameter Labels in combination with procedure types

Disposition:

Accepted and document updated accordingly.

ESA-09

Parameter Labels in combination with procedure types

Disposition:

Accepted and document updated accordingly.

ESA-10

Parameter Labels in combination with procedure types

Disposition:

Accepted and document updated with modifications.

ESA-11

Parameter Labels in combination with procedure types

Disposition:

Accepted and document updated with modifications.

ESA-12

Incomplete list of parameter selection options

Disposition:

Accepted and document updated accordingly.

ESA-13

Parameter Labels in combination with procedure types

Disposition:

Accepted and document updated accordingly.

ESA-14

Event Labels in combination with procedure types

Note that the paragraph number indicated in the RID is incorrect. It should read 4.11.2.2 (not 4.1.2.2)

Disposition:

Accepted and document updated accordingly.

ESA-15

Event Labels in combination with procedure types

Disposition:

Accepted and document updated accordingly.

ESA-16

Event Labels in combination with procedure types

Disposition:

Accepted and document updated accordingly.

ESA-17

Event Labels in combination with procedure types

Disposition:

Accepted and document updated accordingly.

ESA-18

Revised ASN.1 type specification of Label

Disposition:

Accepted and document updated accordingly.

ESA-19

Remove directive labels

Disposition:

Accepted and document updated accordingly.

ESA-20

Procedure type is also identified by means of a Published Identifier

Disposition:

Accepted and document updated with modification.

ESA-21

Wrong parameter name

Disposition:

Accepted and document updated with modification.

ESA-22

Directive identifier must not be an ASCII string

Disposition:

Accepted and document updated accordingly.

ESA-23

Name type specification appears not to support directives

Disposition:

Accepted and document updated accordingly.

ESA-24

PROCESS-DATA extension not compatible with procedure specification

This problem is also addressed in RID 03 David Zoller / Tom Wickline

Disposition:

Accepted and document updated with modifications.

ESA-25

Overlap with CCSDS MO Framework

Disposition:

Rejected. The RID does not suggest any change of the content of the document under review but rather a CCSDS coordination or policy issue for which the review of a document appears not to be the appropriate mechanism.

As regards the intent of the RID, one should take into consideration that the CSTS framework to a large extent capitalizes on the well-proven and widely used SLE standards thus offering a solid basis for the design and implementation of cross support transfer services as the need for them might evolve.