REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-01

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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REVIEWER'S NAME: Gian Paolo Calzolari

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DOCUMENT NUMBER: CCSDS 211.1-P-3.1 Pink Book, Issue 3.1

DOCUMENT NAME: Proximity-1 Physical Layer

DATE ISSUED: March 2012

PAGE NUMBER: 1-2 / 1-3 PARAGRAPH NUMBER: 1.5.1.2

RID SHORT TITLE: **asynchronous data link / synchronous channel**

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

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

Change from:

**asynchronous data link**: A data link consisting of a sequence of variable-length Proximity Link Transmission Units (PLTUs), which are not necessarily concatenated.

.. ..

**synchronous channel**: A data channel where the symbols are continuously modulated onto the channel at a fixed transmission rate. When no PLTU is available for transmission, Idle data is transmitted to maintain the continuous symbol stream.

To:

REMOVE the two terms

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

CATEGORY OF REQUESTED CHANGE: Recommended

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

**The two terms are never used in CCSDS 211.1 (Physical Layer).**

Moreover, as “symbols” are both input to Physical Layer and output from Physical Layer, the term symbol is used here in improper way as the definition should be: **synchronous channel**: A physical channel where the channel symbols are continuously modulated onto the channel at a fixed transmission rate. When no PLTU is available for transmission, Idle data is transmitted to maintain the continuous channel symbol stream.

Note also that the terms “data link” and “data channel” are not defined and therefore shall not be used.

Finally for the “**synchronous channel**”: If the Physical Layer book (i.e. the one where modulations are defined) does not care about using a term that relates to modulation, why the other books should?

You may consider adding the following terms: consistent with other CCSDS documents:

**asynchronous**: not synchronous

**synchronous**: of or pertaining to a sequence of events occurring in a fixed time relationship (within specified tolerance) to another sequence of events. Note that ‘synchronous’ does not necessarily imply ‘periodic’ or ‘constant rate’.

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

DISPOSITION: Accepted.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-02

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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DOCUMENT NUMBER: CCSDS 211.2-P-1.1 Pink Book, Issue 1.1

DOCUMENT NAME: Proximity-1 C&S Sublayer

DATE ISSUED: March 2012

PAGE NUMBER: 1-3 PARAGRAPH NUMBER: 1.6.1.2

RID SHORT TITLE: **asynchronous data link / synchronous channel**

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

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

Change from:

**asynchronous data link**: A data link consisting of a sequence of variable-length Proximity Link Transmission Units (PLTUs), which are not necessarily concatenated.

.. ..

**synchronous channel**: A data channel where the symbols are continuously modulated onto the channel at a fixed transmission rate. When no PLTU is available for transmission, Idle data is transmitted to maintain the continuous symbol stream.

To:

REMOVE the two terms

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

CATEGORY OF REQUESTED CHANGE: Recommended

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

Moreover, as “symbols” are both input to Physical Layer and output from Physical Layer, the term symbol is used here in improper way as the definition should be: **synchronous channel**: A physical channel where the channel symbols are continuously modulated onto the channel at a fixed transmission rate. When no PLTU is available for transmission, Idle data is transmitted to maintain the continuous channel symbol stream.

Note also that the terms “data link” and “data channel” are not defined and therefore shall not be used.

You may consider adding the following terms: consistent with other CCSDS documents:

**asynchronous**: not synchronous

**synchronous**: of or pertaining to a sequence of events occurring in a fixed time relationship (within specified tolerance) to another sequence of events. Note that ‘synchronous’ does not necessarily imply ‘periodic’ or ‘constant rate’.

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

DISPOSITION: ACCEPT WITH MODIFICATION

Remove those terms and define only synchronous / asynchronous if used in this document.

See SLS-03 to be discussed at joint

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-03

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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

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DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 1-2 / 1-3 PARAGRAPH NUMBER: 1.5.1.2

RID SHORT TITLE: **asynchronous data link / synchronous channel**

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

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

Change from:

**asynchronous data link**: A data link consisting of a sequence of variable-length Proximity Link Transmission Units (PLTUs), which are not necessarily concatenated.

.. ..

**synchronous channel**: A data channel where the symbols are continuously modulated onto the channel at a fixed transmission rate. When no PLTU is available for transmission, Idle data is transmitted to maintain the continuous symbol stream.

To:

REMOVE the two terms

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

CATEGORY OF REQUESTED CHANGE: Recommended

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

Moreover, as “symbols” are both input to Physical Layer and output from Physical Layer, the term symbol is used here in improper way as the definition should be: **synchronous channel**: A physical channel where the channel symbols are continuously modulated onto the channel at a fixed transmission rate. When no PLTU is available for transmission, Idle data is transmitted to maintain the continuous channel symbol stream.

Note also that the terms “data link” and “data channel” are not defined and therefore shall not be used.

You may consider adding the following terms: consistent with other CCSDS documents:

**asynchronous**: not synchronous

**synchronous**: of or pertaining to a sequence of events occurring in a fixed time relationship (within specified tolerance) to another sequence of events. Note that ‘synchronous’ does not necessarily imply ‘periodic’ or ‘constant rate’.

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

DISPOSITION:

Greg Proposal  - Accepted with modification

Page number: 1-2/1-3 Paragraph: 1.5.1.2

Proposed Resolution:  Instead of removing the terms, "asynchronous data link" and "synchronous channel", replace them with the terms "asynchronous" and "synchronous" defined in the other two Prox-1 books making all three books consistent.

[GPC] This means adding the following two definitions present in other CCSDS Books and not in Proximity-1 books:

**asynchronous**: not synchronous

**synchronous**: of or pertaining to a sequence of events occurring in a fixed time relationship (within specified tolerance) to another sequence of events. Note that ‘synchronous’ does not necessarily imply ‘periodic’ or ‘constant rate’.

However they should be present only if used in the document.

TO BE DISCUSSED AT JOINT MEETING FOR JOINT RESOLUTION

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-04

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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DOCUMENT NUMBER: CCSDS 211.1-P-3.1 Pink Book, Issue 3.1

DOCUMENT NAME: Proximity-1 Physical Layer

DATE ISSUED: March 2012

PAGE NUMBER: 1-3 PARAGRAPH NUMBER: 1.5.1.2

RID SHORT TITLE: **symbols in a physical channel**

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

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

Change from:

**physical channel**: The RF channel upon which the stream of symbols is transferred over a space link in a single direction.

To:

**physical channel**: The RF channel upon which the stream of channel symbols is transferred over a space link in a single direction.

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

CATEGORY OF REQUESTED CHANGE: Technical fact

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

As Proxinmity-1 defines “coded symbols” and “channel symbols”, using the term symbol alone is ambiguous.

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

DISPOSITION: Accepted.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-05

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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DOCUMENT NUMBER: CCSDS 211.2-P-1.1 Pink Book, Issue 1.1

DOCUMENT NAME: Proximity-1 C&S Sublayer

DATE ISSUED: March 2012

PAGE NUMBER: 1-3 PARAGRAPH NUMBER: 1.6.1.2

RID SHORT TITLE: **symbols in a physical channel**

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

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

Change from:

**physical channel**: The RF channel upon which the stream of symbols is transferred over a space link in a single direction.

To:

**physical channel**: The RF channel upon which the stream of channel symbols is transferred over a space link in a single direction.

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

CATEGORY OF REQUESTED CHANGE: Technical fact

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

As Proxinmity-1 defines “coded symbols” and “channel symbols”, using the term symbol alone is ambiguous.

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

DISPOSITION: PROPOSE ACCEPTED

See also SLS-06 to be discussed at joint

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-06

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 1-3 PARAGRAPH NUMBER: 1.5.1.2

RID SHORT TITLE: **symbols in a physical channel**

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

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

Change from:

**physical channel**: The RF channel upon which the stream of symbols is transferred over a space link in a single direction.

To:

**physical channel**: The RF channel upon which the stream of channel symbols is transferred over a space link in a single direction.

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

CATEGORY OF REQUESTED CHANGE: Technical fact

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

As Proxinmity-1 defines “coded symbols” and “channel symbols”, using the term symbol alone is ambiguous.

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

DISPOSITION:

Greg proposal: Accepted.

Page number: 1-3 Paragraph: 1.5.1.2

Proposed Resolution: The term "symbol" is now ambiguous since there are "channel symbols" and "Prox-1 coded symbols". Therefore in this context, we will add the term "channel symbols" instead of "symbols".

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-07

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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DOCUMENT NUMBER: CCSDS 211.2-P-1.1 Pink Book, Issue 1.1

DOCUMENT NAME: Proximity-1 C&S Sublayer

DATE ISSUED: March 2012

PAGE NUMBER: 3-1 PARAGRAPH NUMBER: 3.1

RID SHORT TITLE: **Not essential reference to asynchronous data link**

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

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

Change from:

The PLTUs form an asynchronous data link, consisting of a sequence of variable-length PLTUs, which can have a delay between the end of one PLTU and the start of the next. While establishing a Proximity-1 session for a full- or half-duplex link, synchronization is reacquired for each PLTU and Idle data is provided for the acquisition process. When no PLTU is available, Idle data is transmitted to maintain synchronization. Idle data is specified in 3.3. The procedures for the session establishment, data services, and session termination phases of a Proximity-1 session are specified in reference [3].

To:

While establishing a Proximity-1 session for a full- or half-duplex link, synchronization is reacquired for each PLTU and Idle data is provided for the acquisition process. When no PLTU is available, Idle data is transmitted to maintain synchronization. Idle data is specified in 3.3. The procedures for the session establishment, data services, and session termination phases of a Proximity-1 session are specified in reference [3].

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

CATEGORY OF REQUESTED CHANGE: Recommended

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

Remove <The PLTUs form an asynchronous data link, consisting of a sequence of variable-length PLTUs, which can have a delay between the end of one PLTU and the start of the next.> as it is not really adding essential information.

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

DISPOSITION: PROPOSED ACCEPTED with modification:

From: The PLTUs form a non-continuous serial stream, consisting of …

To: The PLTUs form a non-continuous serial stream, consisting of a sequence of variable-length PLTUs, which can have a delay between the end of one PLTU and the start of the next. While establishing a Proximity-1 session for a full- or half-duplex link, synchronization is reacquired for each PLTU and Idle data is provided for the acquisition process. When no PLTU is available, Idle data is transmitted to maintain synchronization. Idle data is specified in 3.3. The procedures for the session establishment, data services, and session termination phases of a Proximity-1 session are specified in reference [3].

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-08

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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

REVIEWER'S NAME: Gian Paolo Calzolari

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DOCUMENT NUMBER: CCSDS 211.2-P-1.1 Pink Book, Issue 1.1

DOCUMENT NAME: Proximity-1 C&S Sublayer

DATE ISSUED: March 2012

PAGE NUMBER: 3-4 PARAGRAPH NUMBER: 3.3.4.1

RID SHORT TITLE: **Not essential reference to synchronous channel**

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

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

Change from:

While in the data transfer phase of a Proximity-1 session, (encoded) PLTUs are transmitted on a synchronous channel where a continuous stream of channel symbols is sent from the transmitter to the receiver. When no PLTU is available, the Idle sequence is injected into the bit stream to be encoded in order to keep the channel symbols stream flowing and to enable the receiver to maintain synchronization.

To:

While in the data transfer phase of a Proximity-1 session, (encoded) PLTUs are transmitted within a continuous stream of channel symbols from the transmitter to the receiver. When no PLTU is available, the Idle sequence is injected into the bit stream to be encoded in order to keep the channel symbols stream flowing and to enable the receiver to maintain synchronization.

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

CATEGORY OF REQUESTED CHANGE: Recommended

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

Remove the reference to the synchronous channel as it is not really adding essential information.

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

DISPOSITION: PROPOSEED ACCEPTED

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-09

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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

REVIEWER'S NAME: Gian Paolo Calzolari

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

DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 2-8 PARAGRAPH NUMBER: 2.2.3.1

RID SHORT TITLE: asynchronous frames do not exist

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

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

Change from:

Each data transfer with one of the data transfer services has a service quality associated with it. Packetized data units that are larger then the maximum frame size in asynchronous frames can be transferred only by using the segmentation process, utilizing either the Sequence Controlled service or the Expedited service.

To:

Each data transfer with one of the data transfer services has a service quality associated with it. Packetized data units that are larger than the maximum frame size can be transferred only by using the segmentation process, utilizing either the Sequence Controlled service or the Expedited service.

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

CATEGORY OF REQUESTED CHANGE: Technical fact

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

The asynchronous frames do not exist, in addition the reference to the asynchronous frames does not really add essential information.

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

DISPOSITION:

Greg proposal: Accepted.

Page number: 2-8 Paragraph: 2.2.3.1 Proposed Resolution: Change "then" to "than". Remove the words, "in asynchronous frames" because the statement is true for all frames that contain packets that exceed the maximum frame size.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-10

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 3-9 PARAGRAPH NUMBER: Figure 3-4

RID SHORT TITLE: **Variable Length has nothing to do with “asynchronous”**

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

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

Change from:

Variable Length (asynchronous)

To:

Variable Length

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

CATEGORY OF REQUESTED CHANGE: Technical fact

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

Variable Length has nothing to do with “asynchronous”

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

DISPOSITION:

Greg proposal: Accepted with modification

Page number: 3-9 Figure: 3-4

Proposed Resolution: Change the words in Figure 3-4 from "Variable Length (asynchronous)" to "Variable Length (Data Field)" - this balances the figure nicely since the first part of the figure deals with the frame header and the second part the frame data field.

[GPC] OK for me.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-11

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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

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DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 4-8 PARAGRAPH NUMBER: 4.4.1.1

RID SHORT TITLE: **Not needed reference to “asynchronous data links”**

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

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

Change from:

NOTE – This process will determine how to integrate the received packets into the frames. It includes segmenting packets (asynchronous data links) when their size is too large to fit within the maximum allowed frame size.

To:

NOTE – This process will determine how to integrate the received packets into the frames. It includes segmenting packets when their size is too large to fit within the maximum allowed frame size.

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

CATEGORY OF REQUESTED CHANGE: Technical fact

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

Remove the reference to asynchronous data links” as it does not really add essential information.

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

DISPOSITION:

Greg proposal: Accepted.

Page number: 4-8 Paragraph: 4.4.1.1

Proposed Resolution: Remove the words, "(asynchronous data links)" which has nothing to do with carrying out segmentation.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-12

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 6-1 PARAGRAPH NUMBER: 6.2.1

RID SHORT TITLE: **Overview of State Tables**

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

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

Change from:

The operating states for the Proximity-1 protocol are shown in tables 6-2 through 6-5. These states are dependent on four state-controlling variables: MODE, DUPLEX, TRANSMIT (T), and SUB-STATE (SS). The Receive and Send State Descriptions consist of the values off, on, synchronous (channel), and asynchronous (channel). Currently, Proximity-1 is solely defined for asynchronous data links. (See 1.5.1.2 for these definitions.)

To:

The operating states for the Proximity-1 protocol are shown in tables 6-2 through 6-5. These states are dependent on four state-controlling variables: MODE, DUPLEX, TRANSMIT (T), and SUB-STATE (SS). The Receive and Send State Descriptions consist of the values off, on, sync, and async.

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

CATEGORY OF REQUESTED CHANGE: Technical fact

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

**1)** Remove the reference to asynchronous data links as it does not really add essential information.

The complete sentence < Currently, Proximity-1 is solely defined for asynchronous data links. (See 1.5.1.2 for these definitions.)> can be removed. Actually a sequence of variable-length Proximity Link Transmission Units (PLTUs), which are not necessarily concatenated (see 1.5.1.2), can be transmitted over both types of channel. Therefore the sentence is not relevant for the state tables.

**2)** Changing “synchronous (channel), and asynchronous (channel)” to “sync and async” makes the text consistent with the tables.

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

DISPOSITION:

Greg proposal: Accepted with modification

Page number: 6-1 Paragraph: 6.2.1

Proposed Resolution: Change this sentence to read: "The Receive and Send State Descriptions consist of the values off, on, synchronous, and asynchronous.” Remove the sentence: "Currently, Proximity-1 is solely defined for asynchronous data links." Keep the following sentance : "(See 1.5.1.2 for these definitions.)" - because we made the definitions consistent with all three books.

[GPC] OK for me.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-13

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 6-7 PARAGRAPH NUMBER: 6.2.2.1.1

RID SHORT TITLE: **Description of connecting-T**

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

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

Change from:

b) **connecting-T**: In the Physical Layer, the connecting-transmit state in full duplex shall dictate that the receiver (sequentially in half duplex) and transmitter are powered on and enabled to process received frames, and that the transmitter is enabled for asynchronous channel operations. (In half duplex, only the transmitter is powered on.) The Hail activity shall be conducted while MODE is connecting-T.

To:

b) **connecting-T**: In the Physical Layer, the connecting-transmit state in full duplex shall dictate that the receiver (sequentially in half duplex) and transmitter are powered on and enabled to process received frames, and that the transmitter is enabled. (In half duplex, only the transmitter is powered on.) The Hail activity shall be conducted while MODE is connecting-T.

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

CATEGORY OF REQUESTED CHANGE: Technical fact

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

Remove the reference to for asynchronous channel operations as it does not really add essential information.

There is no definition for “asynchronous channel”

Synchronous channel is defined as “A data channel where the symbols are continuously modulated onto the channel at a fixed transmission rate. When no PLTU is available for transmission, idle data is transmitted to maintain the continuous symbol stream”.

Most likely the terms are not used in the right context.

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

DISPOSITION:

Greg proposal: Accepted with modification

Page number: 6-7 Paragraph: 6.2.2.1.1

Proposed Resolution: Change this sentence to read: "connecting-T: In the Physical Layer, the connecting-transmit state in full duplex shall dictate that the receiver (sequentially in half duplex) and transmitter are powered on and enabled to process received frames, and that the transmitter is enabled for asynchronous operations.

[GPC] OK for me.

The reason for this is that in connecting-T, Prox-1 turns the transmitter off for some period of time and not even idle data is transmitted, so in fact a continuous symbol stream is not maintained in this state. The best example of this is the hail activity.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-14

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 6-7 PARAGRAPH NUMBER: 6.2.2.1.1

RID SHORT TITLE: **Description of active**

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

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

Change from:

d) **active**: In the Active state when DUPLEX is ‘full’ the receiver shall be powered on and enabled to process received frames; the transmitter shall be enabled for synchronous channel operations responding to the control of the TRANSMIT parameter.

To:

d) **active**: In the Active state when DUPLEX is ‘full’ the receiver shall be powered on and enabled to process received frames; the transmitter shall be enabled for responding to the control of the TRANSMIT parameter.

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

CATEGORY OF REQUESTED CHANGE: Technical fact

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

SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

Remove the reference to for synchronous channel operations as it does not really add essential information.

Synchronous channel is defined as “A data channel where the symbols are continuously modulated onto the channel at a fixed transmission rate. When no PLTU is available for transmission, idle data is transmitted to maintain the continuous symbol stream”.

Most likely the terms are not used in the right context.

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DISPOSITION:

Greg proposal: Accepted with modification

Page number: 6-7 Paragraph: 6.2.2.1.1

Proposed Resolution: Change this sentence to “active: In the Active state when DUPLEX is ‘full’ the receiver shall be powered on and enabled to process received frames; the transmitter shall be enabled to respond to the control of the TRANSMIT parameter.”

[GPC] OK for me.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-15

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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REVIEWER'S NAME: Gian Paolo Calzolari

CODE: SLS Area Director

E-MAIL ADDRESS: Gian.Paolo.Calzolari@esa.int

TELEPHONE:

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DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 6-15 PARAGRAPH NUMBER: 6.3.4

RID SHORT TITLE: **bit stream synchronous**

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

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

Change from:

The FIFO shall be filled with data per the specification defined in table 6-14. The ‘Output FIFO = empty’ signals that no data are contained within the FIFO, and more data must be input to the FIFO to keep the output bit stream synchronous.

To:

The FIFO shall be filled with data per the specification defined in table 6-14. The ‘Output FIFO = empty’ signals that no data are contained within the FIFO, and more data must be input to the FIFO to keep the output bit stream continuous.

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

CATEGORY OF REQUESTED CHANGE: Recommended

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SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

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DISPOSITION:

Greg proposal: Accepted

Page number: 6-15 Paragraph: 6.3.4

Proposed Resolution: Change the word, “synchronous” to “continuous”.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: SLS-16

SUBMITTING ORGANIZATION (Agency, Center): SLS Area

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REVIEWER'S NAME: Gian Paolo Calzolari

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DOCUMENT NUMBER: CCSDS 211.0-P-4.1 Pink Book, Issue 4.1

DOCUMENT NAME: Proximity-1 Data Link Layer

DATE ISSUED: March 2012

PAGE NUMBER: 8-1 PARAGRAPH NUMBER: 8.2

RID SHORT TITLE: **bit stream synchronous**

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

Change from:

b) may be required to parse large input packets into segments compatible with the maximum frame data size allowed in the asynchronous link;

To:

b) may be required to parse large input packets into segments compatible with the maximum frame data size allowed;

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

CATEGORY OF REQUESTED CHANGE: Recommended

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SUPPORTING ANALYSIS:

Refer to presentation “SLS-C+S.Asynchronous211books.v1.0.pdf” from Spring 2012 Meetings in Darmstadt.

The reference to “asynchronous link” does not add any essential information.

As asynchronous data link is defined as “A data link consisting of a sequence of variable-length Proximity Link Transmission Units (PLTUs), which are not necessarily concatenated”, the Segmentation of large Packets is independent from the type of the data link.

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

DISPOSITION:

Greg proposal: Accepted

Page number: 8-1 Paragraph: 8.2

Proposed Resolution: Remove the words, “in the asynchronous link”.