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To: T10 Technical Committee
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Subj: SAS Hash Transport Checking

This error is so unlikely to occur that it does not justify complicating the link layer to parse the frame to check the hashed values.

7.13.6.3.2 Transition SSP_FR1:SSP_RF2 (Frame_rcv:Accepted_frame)
The SSP_FR1:SSP_FR2 transition shall occur after the frame_rcv state determines the received frame shall be accepted.

A frame shall be accepted if:
   a) the last parameter received from the rcv_credit_monitor state was the credit extended parameter;
   b) the number of bytes between the SOF and EOF is greater than or equal to 28 and less than or equal 1024 1052 bytes; and
   c) the CRC is valid; and.
   d) the source and destination of the frame matches the source and destination of the current connection.

When a CRC error is detected the SSP_FR1:SSP_FR2 transition shall contain an indication that a CRC error occurred within the frame.

7.15.4.7.2 Transition SMP_SFR1:SMP_SFR2 (Wait_originate_frame:Wait_transmit_frame)
The SMP_SFR1:SMP_SFR2 transition shall occur after the wait_originate_frame state determines the received SMP originate frame is accepted and after the rcv_response_frame state sends a confirmation to the port layer using the SMP frame received parameter that the SMP originate frame was received.

An SMP originate frame shall be accepted if:
   a) there was no CRC error;
   b) the number of bytes between the SOF and EOF is greater than or equal to 28 and less than or equal 1024 1052 bytes; and.
   c) the source and destination of the SMP originate frame matches the source and destination of the current connection.

9.2.1 SSP frame format
The HASHED DESTINATION DEVICE NAME field contains the hashed value (see 4.3.3) of the destination device name. The recipient may compare this to its own device name to verify that the frame was delivered to the correct destination. If the HASHED DESTINATION DEVICE NAME does not
match the device name used to open the connection, the frame may be discarded shall be discarded by the transport layer.

The HASHED SOURCE DEVICE NAME fields contains the hashed value of the source device name. The recipient may compare this to the device name which opened the connection to verify the frame was from the correct source. If the HASHED SOURCE DEVICE NAME does not match the device name used to open the connection, the frame may be discarded shall be discarded by the transport layer.