

## **Title: Define AMS starting point**

### **Applied to: USB Power Delivery Specification Revision 3.1 Version 1.0**

<b>Brief description of the functional changes proposed:</b>
No change intended.
<b>Benefits as a result of the proposed changes:</b>
It becomes clearer when exactly an AMS has started.
<b>An assessment of the impact to the existing revision and systems that currently conform to the USB specification:</b>
None
<b>An analysis of the hardware implications:</b>
None
<b>An analysis of the software implications:</b>
None
<b>An analysis of the compliance testing implications:</b>
This will remove a potential ambiguity in some tests.

## Actual Change Requested

### (a). Section 8.3.2.1

#### Add new paragraphs after fourth paragraph:

An AMS **shall** be considered to have been started by the initiator when the protocol engine signals the Policy engine that transmission is a success (the GoodCRC Message has been received in response to the initial message). For the receiving port the AMS **shall** be considered to have started when the initial message has arrived.

An AMS **shall** be considered to have ended:

- when the protocol engine signals the Policy engine that transmission of the final message in the AMS is a success and for the opposite port when the final message has been received.
- in the case of an Interrupted AMS, the ending of the AMS shall be considered to be the start of the interrupting AMS by the port that initiates the interrupting AMS. For the opposing port the reception of the starting message marks the end of the interrupted AMS.
- a Soft Reset, Hard Reset or for SOP' or SOP'' a Cable Reset has been sent or received.