

ECN USB Power Delivery Specification Revision 3.2 Version 1.1, 2024-10

Title: Clarify SVDM Major Version 1.0

Brief description of the functional changes proposed:
Structured VDM Major Version 1.0 is currently described as “Deprecated and Shall Not be used”, but this is inaccurate and conflicts with the most-common-version logic described elsewhere in the spec. The Minor version description shows a better way of describing not-current versions in the current spec.
Refer to USB PD Power Delivery Specification R3.0 V1.0 as the canonical description of SVDM 1.0 in PD3.

Benefits as a result of the proposed changes:
Gives a hint to the implementer on which PD version to pull up to implement correct decoding of SVDM 1.0.

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
None.

An analysis of the hardware implications:
None

An analysis of the software implications:
Should give software vendors who are building a PD stack that wish to properly decode SVDM 1.0 a pointer to the right spec to digest.

An analysis of the compliance testing implications:
None

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Actual Change Requested

(a). Table 6.29 Structured VDM Header, B14...13 Description

From Text:

Version Number (Major) of the Structured VDM (not this specification Version):

- Version 1.0 = 00b (Deprecated and Shall Not be used).
- Version 2.x = 01b.
- Values 2-3 are Reserved , receiver uses Version 2.x.

To Text (table 6.32):

Version Number (Major) of the Structured VDM (not this specification Version):

- Version 1.0 = 00b (Used by USB PD implementations conforming to USB PD Revision 3.0, Version 1.0 – Deprecated for new designs).
- Version 2.x = 01b (Used by USB PD R3.x implementations starting with USB PD Revision 3.0, Version 1.0a).
- Values 2-3 are Reserved , receiver uses Version 2.x.