Title: Language Relating to VDM Commands
Applied to: USB Power Delivery Specification Revision 2.0
V1.2

Brief description of the functional changes:
Clarify the language involved in VDM Commands. Request/Initiator/Response/Responder etc
Benefits as a result of the changes:
Should prevent compliance failures caused simply by misunderstandings of the Specification language.
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 english of the coffees benefit attended
An analysis of the software implications:
None
An analysis of the compliance testing implications:
<u> </u>
As above - prevents unnecessary failures.

Actual Change

(a). Section 6.4.4.2, Page 171, Table 6-19

From Text:

Table 6-19 Structured VDM Header

Standard or Vendor ID (SVID) VDM Type Structured VDM Version Reserved Object Position	Unique 16 bit unsigned integer, assigned by the USB-IF 1 = Structured VDM Version Number of the Structured VDM (not this specification Version): • Version 1.0 = 0 • Values 1-3 are <i>Reserved</i> and shall not be used For Commands 015 shall be set to 0 and shall be <i>Ignored</i> SVID Specific Commands (1631) defined by the SVID. For the <i>Enter Mode, Exit Mode</i> and <i>Attention</i> Commands:
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Object Position	
	 000b = Reserved and shall not be used. 001b110b = Index into the list of VDOs to identify the desired Mode VDO 111b = Exit all Active Modes (equivalent of a power on reset). Shall only be used with the Exit Mode Command. Commands 03, 715: 000b 001b111b = Reserved and shall not be used. SVID Specific Commands (1631) defined by the SVID.
Command Type	00b = Initiator 01b = Responder ACK 10b = Responder NAK 11b = Responder BUSY
Reserved	Shall be set to 0 and shall be <i>Ignored</i>
Command ¹	0 = Reserved, shall not be used 1 = Discover Identity 2 = Discover SVIDs 3 = Discover Modes 4 = Enter Mode 5 = Exit Mode 6 = Attention 7-15 = Reserved, shall not be used
	Reserved

Note 1: In the case where a SID is used the modes are defined by a standard. When a VID is used the modes are defined by the Vendor.

To Text:

Table 6-19 Structured VDM Header

Bit(s)	Field	Description
B3116	Standard or Vendor ID (SVID)	Unique 16 bit unsigned integer, assigned by the USB-IF
B15	VDM Type	1 = Structured VDM
B1413	Structured VDM Version	 Version Number of the Structured VDM (not this specification Version): Version 1.0 = 0 Values 1-3 are <i>Reserved</i> and shall not be used
B1211	Reserved	For Commands 015 shall be set to 0 and shall be <i>Ignored</i> SVID Specific Commands (1631) defined by the SVID.
B108	Object Position	For the <i>Enter Mode, Exit Mode</i> and <i>Attention</i> Commands (Requests /Responses): • 000b = <i>Reserved</i> and shall not be used. • 001b110b = Index into the list of VDOs to identify the desired Mode VDO • 111b = Exit all Active Modes (equivalent of a power on reset). Shall only be used with the <i>Exit Mode</i> Command. Commands 03, 715: • 000b • 001b111b = <i>Reserved</i> and shall not be used. SVID Specific Commands (1631) defined by the SVID.
В76	Command Type	00b = REQ (Request from Initiator Port) 01b = ACK (Acknowledge Response from Responder Port) 10b = NAK (Negative Acknowledge Response from Responder Port) 11b = BUSY (Busy Response from Responder Port)
B5	Reserved	Shall be set to 0 and shall be <i>Ignored</i>
B40	Command ¹	0 = Reserved, shall not be used 1 = Discover Identity 2 = Discover SVIDs 3 = Discover Modes 4 = Enter Mode 5 = Exit Mode 6 = Attention 7-15 = Reserved, shall not be used 1631 = SVID Specific Commands

(b). Section 6.4.4.2.4, Page 173

From Text:

This field shall be set to zero when not required by the Command.

To Text:

This field shall be set to zero in the Request or Response (REQ, ACK, NAK or BUSY) when not required by the specification of the individual Command.