

# ECN for USB Power Delivery Specification Revision 3.2

Version 1.1, 2024-10

## Title: EPR\_Get\_Source\_Cap – EPR\_Get\_Sink\_Cap applicability

### Brief description of the functional changes proposed:

Currently, EPR\_get\_source\_cap and EPR\_get\_sink\_cap are required to be transmitted for respectively Sink and Source while get\_source\_cap and get\_sink\_cap are not.  
No state machine actually requires EPR\_get\_xx message, so the requirement is not testable.  
The requirement should be turned into recommendation

### Benefits as a result of the proposed changes:

### An assessment of the impact to the existing revision and systems that currently conform to the USB specification:

### An analysis of the hardware implications:

### An analysis of the software implications:

### An analysis of the compliance testing implications:

# ECN for USB Power Delivery Specification Revision 3.2

## Version 1.1, 2024-10

### Actual Change Requested

(a). Section 6.13.4, Page 308, Table 6.80

From Text:

Table 6.80 Applicability of Extended Control Messages

Message Type	Source	Sink	Dual-Role Power	Dual-Role Data	Cable Plug	VPD <sup>2</sup>
Transmitted Message						
<i>EPR_Get_Source_Cap</i>	NA	CN <sup>1</sup>	CN <sup>1</sup>		NA	NA
<i>EPR_Get_Sink_Cap</i>	CN <sup>1</sup>	NA	CN <sup>1</sup>		NA	NA
<i>EPR_KeepAlive</i>	NA	CN <sup>1</sup>			NA	NA
<i>EPR_KeepAlive_Ack</i>	CN <sup>1</sup>	NA			NA	NA
Received Message						
<i>EPR_Get_Source_Cap</i>	CN <sup>1</sup>	NS	CN <sup>1</sup>		I	I
<i>EPR_Get_Sink_Cap</i>	NS	CN <sup>1</sup>	CN <sup>1</sup>		I	I
<i>EPR_KeepAlive</i>	CN <sup>1</sup>	NS			I	I
<i>EPR_KeepAlive_Ack</i>	NS	CN <sup>1</sup>			I	I
1) Shall be supported by products that support <i>EPR Mode</i> . 2) VPD includes <i>CT-VPDs</i> when not <i>Connected</i> to a <i>Charger</i> . PD communication with a <i>CT-VPD</i> Shall only take place when not <i>Connected</i> to a <i>Charger</i> .						

To Text (table 7.4):

AMS	Initiator Applicability	Responder Applicability	General Message Sequence	Transmitter
EPR Get Source Capabilities	Required for ports that can operate as EPR Sink <div>Recommended</div>	Required for ports that can operate as EPR Source	<i>EPR_Get_Source_Cap</i>	Any
			<i>EPR_Source_Capabilities</i>	Responder
			If in EPR Mode and AMS was initiated by the Sink: <i>EPR Request AMS Sequence</i>	-
EPR Get Sink Capabilities	Required for ports that can operate as EPR Source	Required for ports that can operate as EPR Sink	<i>EPR_Get_Sink_Cap</i>	Any
			<i>EPR_Sink_Capabilities</i>	Responder