

# USB4 1.0 ENGINEERING CHANGE NOTICE FORM

**Title: Vendor Specific Extended 6 Capability Clarification**  
**Applied to: USB4 Specification Version 1.0**

<b>Brief description of the functional changes:</b>
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Adding a clarification that describes and gives example of the mapping of the USB4 Port Region for each USB4 Port
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<b>Benefits as a result of the changes:</b>
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Clear mapping of the regions and the Ports
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<b>An assessment of the impact to the existing revision and systems that currently conform to the USB specification:</b>
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None
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<b>An analysis of the hardware implications:</b>
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None
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<b>An analysis of the software implications:</b>
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None
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<b>An analysis of the compliance testing implications:</b>
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None
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## Actual Change

### (a). Section 13.6.1.4 Vendor Specific Extended 6 Capability, Page 536

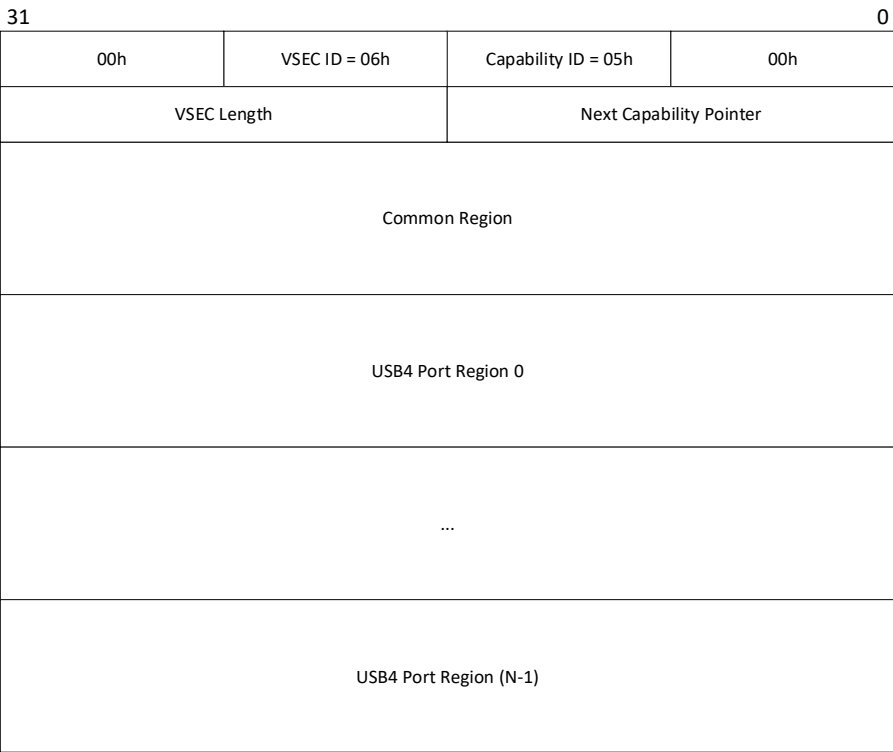
#### From Text:

A Vendor Specific Extended 6 Capability shall have the structure depicted in Figure 13-6 and the fields defined in Section 13.6.1.4.1 and Section 13.6.1.4.2. A USB4 Port Region shall exist for each USB4 Port.

#### To Text:

A Vendor Specific Extended 6 Capability shall have the structure depicted in Figure 13-6 and the fields defined in Section 13.6.1.4.1 and Section 13.6.1.4.2.

**Figure 13-6. Structure of the Vendor Specific Extended 6 Capability**



A USB4 Port Region shall exist for each USB4 Port. The first USB4 Port Region (USB4 Port Region 0) shall contain information about the USB4 Port with the lowest Adapter Number. Each subsequent USB4 Port Region shall contain information about the USB4 Port with the next highest Adapter Number. For example, Figure 13-7 shows the Vendor Specific Extended 6 Capability for a Router with three USB4 Ports (referred to as Port A, Port B, and Port C) where Port A contains Lane Adapters 1 and 2, Port B contains Lane Adapters 3 and 4, and Port C contains Lane Adapters 5 and 6.

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**Figure 13-7. Example Vendor Specific Extended 6 Capability**

31				0
00h	VSEC ID = 06h	Capability ID = 05h	00h	
VSEC Length		Next Capability Pointer		
Common Region				
USB4 Port Region for Port A				
USB4 Port Region for Port B				
USB4 Port Region for Port C				