

DEVELOPER UPDATE

CONTACTS:

Brad Saunders

USB Promoter Group

+1 503-264-0817

brad.saunders@intel.com**Joe Balich**

USB-IF PR

+1 503-619-4113

press@usb.org

USB Promoter Group Announces USB4® Version 2.0

Specification defines delivering up to 80 Gbps over USB Type-C®

Beaverton, OR, USA – September 1, 2022 – The USB Promoter Group today announced the pending release of the USB4® Version 2.0 specification, a major update to enable up to 80 Gbps of data performance over the USB Type-C® cable and connector. The USB Type-C and USB Power Delivery (USB PD) specifications will also be updated to enable this higher level of data performance. All of these specification updates are expected to be published in advance of this year’s series of USB DevDays developer events planned for November.

Protocol updates are also being made to enable higher performance USB 3.2, DisplayPort™ and PCI Express® (PCIe®) data tunneling to best use the higher available bandwidth.

“Once again following USB tradition, this updated USB4 specification doubles data performance to deliver higher levels of functionality to the USB Type-C ecosystem,” said Brad Saunders, USB Promoter Group Chairman. “Solutions seeing the most benefit from this speed enhancement include higher-performance displays, storage, and USB-based hubs and docks.”

Key characteristics of the updated USB4 solution include:

- Up to 80 Gbps operation, based on a new physical layer architecture, using *existing* 40 Gbps USB Type-C passive cables and newly-defined 80 Gbps USB Type-C active cables.
- Updates to data and display protocols to better use the increase in available bandwidth.
 - USB data architecture updates now enable USB 3.2 data tunneling to *exceed* 20 Gbps.
 - Updated to align with the latest versions of the DisplayPort and PCIe specifications.
- Backward compatibility with USB4 Version 1.0, USB 3.2, USB 2.0 and Thunderbolt™ 3.

USB Developer Days 2022 will include detailed technical training covering the latest updates to the USB4, USB Type-C, and USB PD specifications. Registration for the two scheduled events, November 1-2 in Seattle, WA and November 15-16 in Seoul, South Korea, will open shortly on the USB-IF website (www.usb.org).

This update is specifically targeted to developers at this time. Branding and marketing guidelines will be updated in the future to include USB 80 Gbps both for identifying certified products and certified cables.

About the USB Promoter Group

The USB Promoter Group, comprised of Apple Inc., Hewlett-Packard Inc., Intel Corporation, Microsoft Corporation, Renesas Electronics Corporation, STMicroelectronics, and Texas Instruments, continues to develop the USB family of specifications to meet the market needs for increased functionality and performance of USB solutions. Additionally, the USB Promoter Group develops specification addendums

(USB Power Delivery, USB Type-C®, and others) to extend or adapt its specifications to support more platform types or use cases where adopting USB technology will be beneficial in delivering a more ubiquitous, richer user experience.

About the USB-IF

The non-profit USB Implementers Forum, Inc. was formed to provide a support organization and forum for the advancement and adoption of USB technology as defined in the USB specifications. The USB-IF facilitates the development of high-quality compatible USB devices through its logo and compliance program and promotes the benefits of USB and the quality of products that have passed compliance testing. Further information, including postings of the most recent product and technology announcements, is available by visiting the USB-IF website at www.usb.org.

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