DEVELOPER UPDATE

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USB-IF Announces Publication of USB4™ Specification

Specification now available for download on USB-IF website; doubles bandwidth to extend USB Type-C® performance

Beaverton, OR, USA – September 3, 2019 – USB Implementers Forum (USB-IF), the support organization for the advancement and adoption of USB technology, today announced the publication of the USB4™ specification, a major update to deliver the next-generation USB architecture that complements and builds upon the existing USB 3.2 and USB 2.0 architectures. The USB4 architecture is based on the Thunderbolt™ protocol specification recently contributed by Intel Corporation to the USB Promoter Group. It doubles the maximum aggregate bandwidth of USB and enables multiple simultaneous data and display protocols.

The development of the USB4 specification was first announced in March 2019 by the USB Promoter Group. It is now officially published by USB-IF and available for download at www.usb.org.

 Key characteristics of the USB4 solution include:

- Two-lane operation using existing USB Type-C® cables and up to 40Gbps operation over 40Gbps certified cables
- Multiple data and display protocols that efficiently share the maximum aggregate bandwidth
- Backward compatibility with USB 3.2, USB 2.0 and Thunderbolt 3

As the USB Type-C connector has evolved into the role as the external display port of many host products, the USB4 specification provides the host the ability to optimally scale allocations for display data flow. Even as the USB4 specification introduces a new underlying protocol, compatibility with existing USB 3.2, USB 2.0 and Thunderbolt 3 hosts and devices is supported; the resulting connection scales to the best mutual capability of the devices being connected. For more information, visit www.usb.org.

The upcoming USB Developer Days 2019 will include detailed technical training covering the USB4 specification and the latest for USB Type-C, USB Power Delivery, and new USB-IF

branding strategies. Registration information for the following opportunities is available at www.usb.org.

- *USB Developer Days – Seattle*
  September 17-18, 2019
  Grand Hyatt Seattle, Seattle, Washington, USA

- *USB Developer Days – Taipei*
  November 19-20, 2019
  W Taipei, Taipei, Taiwan

About 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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