

# Avnu Alliance Demonstrates New Conformance Test Reference Tool at SPS IPC Drives

NUREMBERG, RI, GERMANY, November 19, 2018 /EINPresswire.com/ -- Nuremberg, Germany – November 19, 2018 – Avnu Alliance, an industry consortium enabling open, standards-based deterministic networking, will exhibit at SPS IPC Drives in the University Stuttgart ISW booth (Hall 6, Booth #360). Avnu Alliance, alongside ISW and Industrial Internet Consortium (IIC), will showcase the role of conformance test plans, testbeds and test reference tools in ensuring an interoperable ecosystem of Time Sensitive Networking (TSN) devices.



Avnu Alliance Logo

“We are in cooperation with IIC, IEEE, IEC and others in creating an interoperable ecosystem through a common network foundation that stems from industry open standards and testing,” said Todd Walter, Avnu Alliance Industrial Segment Chair. “The market will continue to require multiple application layer protocols for networked industrial systems. The Avnu Alliance charter is to enable interoperability at the network layer, to ensure ‘One TSN.’ We are the organization focused on providing TSN test plans and reference test architectures to anyone in the industry that wants to test for TSN compatibility.”

As such, Avnu serves to support Fieldbus organizations by providing its TSN conformance tests and procedures to ensure those organizations’ interoperability in the wider Ethernet system.

Leveraging the industry-defined requirements for TSN network interoperability, Avnu ensures there is a universal set of test plans for conformance to guarantee interoperability at the network layer. Avnu has developed a baseline test plan in the industrial market that ensures industrial devices, whether end device, infrastructure component or silicon, conform to the relevant IEEE standards, as well as the industrial automation profile being defined by IEC/IEEE 60802 Joint Project working group. Starting with Time Synchronization, or 802.1AS as the foundation for all TSN devices, Avnu released the first set of test plans at SPS IPC Drives in 2017. Avnu will soon publish additional conformance test plans for end devices, such as enhancements for scheduled traffic.

At SPS IPC Drives 2018, Avnu Alliance will show a new proof-of-concept (POC) Conformance Test Reference Design that offers a single, streamlined way for vendors to test TSN interoperability. The POC Conformance Test Reference Design is designed to automatically test TSN devices for compliance to 802.1AS. The demonstration features a Linux open-source test tool created by ISW in partnership with Avnu. This tool would also allow other protocol organizations to test application stacks on top of a TSN network in a streamlined way enabling one-stop certification at any test house.

To learn more about Avnu Alliance and currently available test plans, visit <https://avnu.org/specifications/>.

#### About Avnu Alliance

The Avnu Alliance is a community creating an interoperable ecosystem of low-latency, time-synchronized, highly reliable networked devices using open standards. Avnu creates comprehensive certification programs and test plans to ensure the interoperability of networked devices. The foundational technology enables deterministic synchronized networking based on IEEE Audio Video Bridging (AVB) / Time Sensitive Networking (TSN) base standards. The Alliance, in conjunction with other complementary standards bodies and alliances, provides a united network foundation for use in professional AV, automotive, and industrial control segments.

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