PRESS RELEASE
Contact: Caster Communications, Inc. at 401.792.7080

Avnu Alliance Announces Silicon Validation Task Group

Leading network component companies join together under Avnu Alliance to advance TSN (Time Sensitive Networking) interoperability

BEAVERTON, OR — August 10, 2021 – Avnu Alliance, the industry consortium driving open, standards-based deterministic networking, announces a new initiative to drive alignment on TSN interoperability in the network ecosystem. In the Silicon Validation Task Group, silicon and IP companies including Analog Devices, Intel, Keysight Technologies, Microchip, NXP Semiconductors, Texas Instruments, and TTTech will work together to ensure that the TSN features of various profiles interoperate.

Avnu has a history of providing a successful framework for industry stakeholders to collaborate to advance TSN. This task group will allow competitors to work together to develop a testing ecosystem for silicon and IP products' TSN capabilities at the component (and supporting software) level. Group members will collaborate on activities such as developing test plans, creating validation tools, and hosting plugfests.

The members of the Silicon Validation Task Group have come together in recognition of the fact that interoperability is required at the silicon level to enable specialization further up the stack. TSN applications span markets including ProAV, automotive, industrial manufacturing, and aerospace. Base interoperability at the component level facilitates device interoperability across various applications and profiles, including IEEE/IEC 60802 for industrial and IEEE 802.1BA for ProAV as well as future profiles that are in development.

"As an active developer of TSN technology innovation at the silicon and system level for many years, NXP is pleased to work with our counterparts in the Silicon Validation Task Group to help craft a common set of standards for TSN," said **Jeff Steinheider, senior director and general manager, industrial edge, at NXP.** "This collaboration and the associated standards will help developers take advantage of TSN's full potential across the spectrum of related applications."

"We consider an open, cross-industry standard like TSN as an essential basis for successful industrial automation projects. Interoperability at the silicon level ensures that customers have more choice and flexibility when digitalizing their production. As more companies and industries start using TSN, the huge benefits of interoperability increase – we can already see that in the plastics industry where the EUROMAP 79 standard specifies using TSN as the networking technology for injection molding machines," says **Thomas Berndorfer, member of the executive board, TTTech Industrial.**

"Software, applications and profiles can all be tailored to specific use cases, but they need a stable network foundation to build on top of," says **Greg Schlechter, president of the Avnu**

Alliance. "The Silicon Validation Task Group includes key market players who can identify what TSN interoperability means for basic network components, and how we can get interoperable products to market."

The Silicon Validation Task Group's efforts will allow silicon vendors to achieve better economies of scale for TSN products. By providing a roadmap to verify base TSN capabilities in a common way independently from profile or application, the Silicon Validation Task Group will enable silicon providers to develop products for a broad customer base.

"Ethernet's universal success is centered around standards-based, interoperable silicon," says **Tom Weingartner, product marketing director for the industrial Ethernet technology group at Analog Devices**. "As silicon providers, we are coming together to ensure this next generation of Ethernet with TSN is equally successful across the spectrum of silicon solutions."

Interoperability at the silicon level gives TSN the flexibility for technological advancements from one market to cross-pollinate to others. TSN capabilities developed for industrial applications could eventually be adopted by ProAV, for example, or real time media distribution methods created for ProAV could benefit Industry 4.0. This cycle of innovation has been key to Ethernet's expansion beyond its original applications. As TSN becomes simply another capability of the standard network ecosystem silicon components should support capabilities coming online across industries.

"Ensuring interoperability at the silicon level makes it possible for product designers to focus on value-added system design," says **Douglas Anderson, product marketing manager for Microchip Technology's USB and networking business unit.**

"We cee potential for TSN across several of our markets," says **Dieter Cohrs, real time capability manager, Internet of Things group, Intel.** "This effort of the component industry working together to further interoperability, starting at the silicon level will help the overall ecosystem in all of the markets using TSN."

"Having a reliable network foundation is a real asset to product development," says **Marc Chutczer, vice president of research and development for Meyer Sound.** "We can't predict every future requirement, but access to interoperable silicon will speed up development time and will broaden the reach of Avnu-based interoperable solutions."

The Silicon Validation Task Group is open to all Avnu members. Companies interesting in joining this collaborative effort can visit www.avnu.org to learn more about Avnu Alliance and get involved.

About Avnu Alliance
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 to ensure 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 complimentary standards bodies and alliances, provides a united network foundation for use in professional AV, automotive, industrial control and consumer segments.

Alex Gil agil@castercomm.com cell +1-703-282-8963
Rachel Bradshaw rbradshaw@castercomm.com cell