

Avnu Alliance Automotive TSN Seminar and Workshop
June 27, 2018
Miyako Messe, Kyoto

Sponsored by:
Avnu Alliance
Allion
Nikkei BP

To the members of the Automotive Community,

Avnu, Allion and Nikkei would like to invite you to our first ever Automotive TSN Seminar in Japan, which will be followed by a “JasPar Only” TSN Workshop. This will be held on June 27, immediately following the Nikkei Automotive Ethernet event on June 25th and 26th in Kyoto.

This meeting has been arranged as a result of a conversation I had with a number of JasPar members in Las Vegas at the Consumer Electronics show in January.

Avnu, in conjunction with BMW, Continental, Bosch and others, has sponsored several of these workshops in the past. They have all been an excellent opportunity to discuss common problems and determine next steps related TSN in the automobile.

The list of speakers and subjects are below:

Gary Stuebing – Avnu President, Cisco Systems - Welcome – Introduction – Small History on Avnu TSN Efforts and Workshops

- Gary is currently leading the IoT standards efforts at Cisco Systems as part of the Enterprise Networking Business group. Gary has a long history in networking, including Mutual Life Financial Services, Manufacturing, Retail, Energy and finally Cisco. Prior to Cisco, Gary had been the lead for Powerline Communications standards and regulatory work at Duke Energy. In 2007 Gary joined the Smart Grid PLC and Network Design team as a Strategic Planning Manager. In 2012, Gary led the efforts for Smart Grid Standard in Cisco’s Connected Energy business group. Gary currently represents Cisco as a contributor and leader in a number of standardization and certification efforts. These include IEEE, ITU, IEC and the UCAIug. He represents Cisco on the Boards of Wi-Sun, LoRa, AVnu and UCAIug. He is currently sitting as Chair of the IEEE 802.15.4md. In addition, Gary is the Treasurer of the LoRa Alliance and Chair of the OCF Strategic Advanced Commercial and Enterprise Standards Committee. He is the Treasurer of LoRa and the President of the AVnu Alliance

Donald Pannell – NXP Semiconductor - IEEE TSN & Automotive PHY Standards, What they are and how they apply to the Automotive market.

- Don Pannell joined NXP last year. Previously he was at Marvell for 17 years where he was the lead architect for their small port count Ethernet switches. He is currently an active contributor in both IEEE 802.3 and IEEE 802.1, where more recently he has worked on all the IEEE 802.1 AVB/TSN standards and is currently Secretary of the IEEE 1722 and IEEE 1722.1 working groups (which standardize end node protocols for AVB/TSN). He worked on his 1st IEEE standard in 1980 and was Vice Chair of the Board of the VESA standards association in 1990. He has been a lead architect for over 30 years at companies including Sierra Semiconductor, I-Cube, Marvell and now NXP. Don currently has over 70 patents granted with more in the works and he received his BSEE degree from Loyola University in California.

Dr Kirsten Matheus – BMW- Key findings from previous Automotive Workshops and Workshop Leader

- Kirsten is an engineer and economist. She has been working in the automotive industry for the last 15 years; almost 9 of which for BMW. At BMW it is her responsibility to ensure that the in-vehicle network fulfills also future requirements by the ensuring the availability of suitable in-vehicle networking technologies. In this context she successfully introduce Ethernet as a networking technology into the industry. She and her colleague Thomas Königseder described the background and technical concepts in a book titled “automotive Ethernet”.

Evan See, Senior Product Manager at National Instruments - What problems does TSN Solve for the Automotive Industry. What problems are being solved by the TSN Standards and solved by the Avnu Profiles

- Evan is responsible for managing the portfolio of test and measurement tools for Automotive In-Vehicle Networks. In 2014, he led the field-upgradable integration of ISO CAN FD into National Instruments’ tool chain, to provide flexible and scalable long-term solutions with minimal downtime. He currently is working to integrate the expertise from the IIoT (Industrial Internet of Things) and TSN, with National Instruments’ over 20 years of Automotive In-Vehicle Networks experience.

Dr. Helge Zinner – Automotive TSN in the real world. What problems are being solved now. Where is it being used?

- Helge has been with Automotive since 2005 where he started his career in the area of In-Vehicle communication technologies. Helge works currently as a senior system architect for the cross divisional usage of automotive high-speed network technologies and protocols like Ethernet. He has been working actively in multiple standardization organizations and served in various automotive committees and working groups. Helge is one of the first engineers to push for the adoption of Ethernet technology in the

automotive industry. He filed over 70 active patents and patent applications in the area of autonomous driving and communication technologies.

Hideaki Nakayama – Allion - Connected Car Validation and Interoperability Program

- Hideaki Nakayama, President of Allion Japan, Inc. has over 15-year experience in business and marketing strategy development. He has led the Japan branch to an exponential growth. In 2013, Hideaki launched “Connected Car Validation Program,” extending Allion’s capabilities to the field of automotive industry. The program provides a one-stop service, which help vendors not only obtain multiple standard certifications at once (e.g. USB, Wi-Fi, MirrorLink, CarPlay, etc.) but execute field driving tests in over 25 countries.

We would like to invite JasPar members to both the Morning Seminar as well as the JasPar ONLY Workshop being held in the afternoon. A box lunch will be served at no cost for Jaspar Members (participating in the morning and afternoon session). The morning session is open to non-Jaspar members as well.

We would invite you to submit your Name, Company Affiliation, Email address and intended participation (morning and/or afternoon) to Mashita-san (put correct email address here) . We look forward to seeing you June 27th.

Gary Stuebing
President – Avnu – Cisco Systems