

Common TSN for Converged Networks – next steps

Greg Schlechter

János Farkas

IEEE 802 Plenary, November 2021

Common TSN for Converged Networks next steps

- Growing discussion in community regarding how to ensure commonality of TSN offering across multiple markets and applications.
- Driven by diverse set of reasons/needs, including support of converged networks and scaling network ecosystem
- [Presentation at March Plenary](#) on *Insights and Observations on TSN applied across ecosystems* yielded good discussion
 - Question at end: How do we facilitate this conversation in 802.1 (and overall community)?
- Related presentation given at TSN/A 2021 Conference including closing keynote
 - Proposed to start a forum to focus the discussion with relevant stakeholders across groups and translate to action.

Insights and observations on TSN applied across ecosystems

A look back and forward

Presented by:

Henning Kaltheuner  Genio Kronauer  Greg Schlechter  Tom Weingartner 

Applications span market segments

		MARKET SEGMENTS		
		PRO AV	AUTO	INDUSTRIAL
APPLICATION AREAS	NETWORKED TIME SENSITIVE AV	PROFESSIONAL AV	PROFESSIONAL AV	PROFESSIONAL AV
	NETWORKED TIME SENSITIVE TRANSPORTATION	AVNU AUTO	AVNU AUTO	AVNU AUTO
	NETWORKED TIME SENSITIVE CONTROL	AVNU AUTO	AVNU AUTO	AVNU AUTO
USING TSN	APPLICATION PROTOCOLS	AVDECC 1722	1722 + Other?	MULTIPLE
	INTEROP PROFILE	MILAN	Avnu Auto	TBD
	TECH PROFILE	802.1BA	802.1DG	60802

Summary

- Applications such as professional AV and industrial have some **unique application requirements** but end stations are still able to **share the same network via common interfaces** (same network requirements)
- **Network convergence must be understood and taken into account** in how TSN is used in end stations and bridges
 - Security implications must be considered
- **Decoupling of application and network is required** for convergence and scale over time
- **By looking for commonality at the network level, a new perspective is possible** in how the network ecosystem is transformed

Proposal for meeting to further discussion to action

- Open forum/meeting on 9 February 2022, held together with Avnu and IEEE 802.1 TSN TG
- Outcome of meeting (possible a series of meetings) will be a list of action items/next steps to address
- János Farkas and Greg Schlechter to arrange specific logistics and agenda.
- Anyone wishing to present contact Janos or Greg, or send email to tsntogether@avnu.org
- Meeting is open to all and will be hosted under IEEE SA policies and rules.