

IEEE-SA Ethernet & IP at Automotive Technology Day 2022

Panel Session

Theme: Ethernet as an Enabler for Software Defined Vehicles



***Japan
Automotive
Software
Platform
and
Architecture***

9th, November, 2022 11.06

Osami Wada, Kyoto University

Yoshihiro Ito, Nagoya Institute of Technology

■ Moderators

Prof. Osami Wada (Kyoto Univ.)

Prof. Yoshihiro Ito (Nagoya Institute of Technology)

■ Panelists & Temporary Presentation order

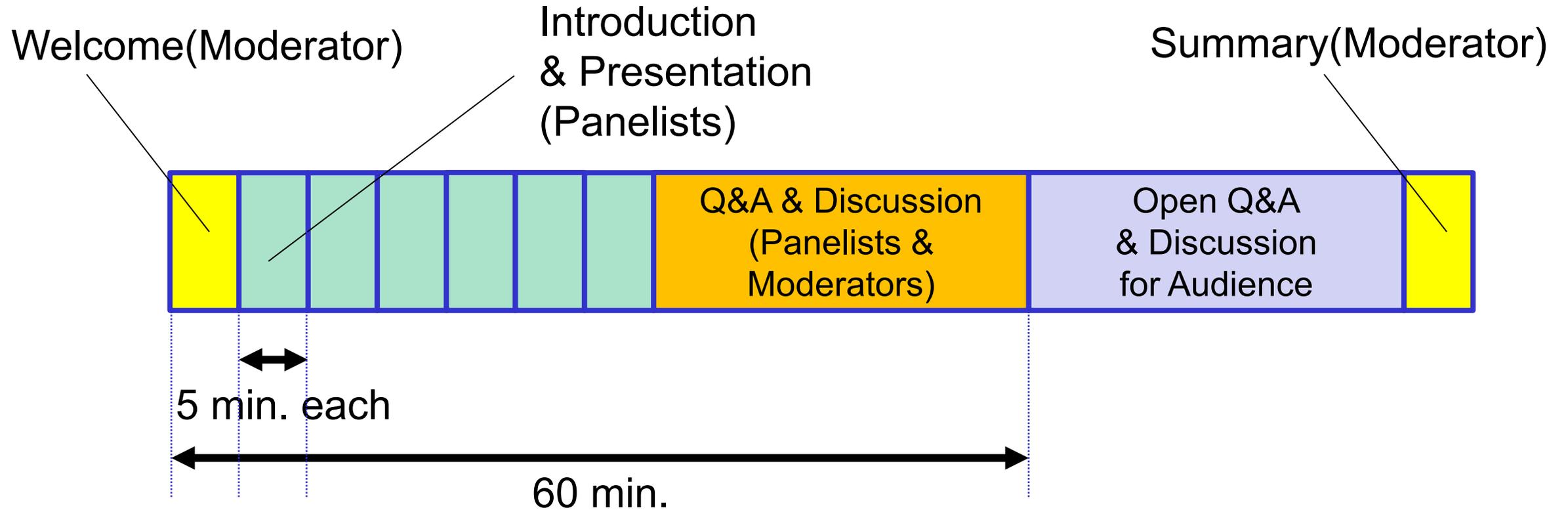
1. Christoph Gollob (BMW)
2. Illia Safiulin (Elektrobit)
3. Christopher Mash (Ethernovia)
4. Amir Bar-Niv (Marvell)
5. Naoshi Serizawa (YAZAKI)
6. Martin Gubow (Keysight)

Theme: Ethernet as an Enabler for Software-Defined Vehicles

Objective/Motivation:

1. Thinking ahead to raise awareness in the Automotive industry for the need to timely evaluate in-vehicle Ethernet connectivity aspects (HW & SW) that serve as enablers for SDV
2. To address current open areas requiring input/contributions to/from the Automotive industry to expedite the aforementioned aspects

Panel Format (Time schedule)



Questions/Discussion Items in Panel Session

Questions/Discussion Items	
1	Why is there a need to this discussion on SDVs now?
2	What is the state-of-the-art of SDV activities in the Automotive industry?
3	What makes a software defined vehicle? What new functionalities are enabled with the software defined vehicle?
4	Which feature(s) of Ethernet-based communication are required to enable the SDVs?
5	Is a different in-vehicle (E/E) network architecture required to support SDVs?
6	How data rate is important for communication of the SDV?
7	What role do optical communication technologies play? Is the Automotive Optical Ecosystem All Set for Next Generation (NG) In-Vehicle Ethernet Connectivity?
8	What still needs to be done to ensure a timely roll-out of SDV in the industry?

Panelists will answer these questions based on their expertise.

Thanks!