VIRTUAL DEMO SHOWCASES PROVIDED BY:
Agenda

• WHO has GENIVI become
• WHAT has happened recently
• HOW we want you to be involved
• The road ahead
WHO has GENIVI become?
How well do you know GENIVI?

• From 2009 to 2018
“GENIVI® is a nonprofit industry alliance committed to driving the broad adoption of open source, In-Vehicle Infotainment (IVI) software and providing open technology for the connected car (added in 2016).”

• Since 2018
“The GENIVI Alliance develops standard approaches for integrating operating systems and middleware present in the centralized and connected vehicle cockpit.”
Here are a few reminders

GENIVI is no longer just about **open software** ... though we continue to fully support open approaches to technology development and code

GENIVI is no longer just about **Linux** ... though we continue to leverage our rich and deep heritage in Linux-based solutions for the vehicle

GENIVI is no longer just about **IVI** ... and we recognize the IVI, safety and connectivity are consolidating and require new architectural approaches

GENIVI is no longer just about **in-vehicle solutions** ... because vehicle data exchange and cloud computing trends are demanding closer interaction between the vehicle & the cloud.
Reflected in our current projects

Examples of Multi-OS Integration

Android™ Automotive Special Interest Group (SIG)
• Architectural approaches and Proof of Concept code for hardware/audio abstraction

Hypervisor Project
• Automotive Virtualization Platform Specification

Examples of Car to Cloud Connectivity

Cloud and Connected Services Project
• Vehicle Signal Specification (in collaboration with W3C)
• Vehicle-to-Cloud Reference Architecture

Related Topics

Automotive Cybersecurity
In-vehicle Payments
Common Vehicle Interface Initiative

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Reflected in our priorities

GENIVI Alliance work is...

- Funded with GENIVI member revenue
- Open to non-member participation and uses open source licensing for outputs
- Aligned with other technical bodies and standards approaches
- Informed by E/E architectural trends like domain consolidation, compute centralization, and cloud connectivity
- Delivered to the industry making community interaction at events, summits and receptions essential to success
WHAT has happened recently
GENIVI outputs 2019 - Present

• Multi-OS Integration
  - Published first version of the Automotive Virtualization Platform Specification delivered openly and with multi-OS support
  - Launched Android Automotive SIG with three active threads of work (one already complete)
  - Delivered several tech briefs describing methods of sharing graphics across vehicle software domains
  - Published open source Ramses code as a model for cross-domain graphics sharing
  - Delivered a tool for enabling Adaptive AUTOSAR interop with non-AUTOSAR system (GENIVI IVI) through IDL transformation

• Vehicle Data / Cloud & Connected Service Models
  - Completed Vehicle Service Specification (VSS) and launched github repository for its evolution
  - Supported W3C publication of Candidate Recommendation for Vehicle Interface Service Specification (VISS)
  - Published initial overview and gap analysis of various vehicle data models
  - Published initial vehicle-to-cloud, end-to-end reference communication architecture

Note: More detail on many of these will be shared in the (next) Introduction to Active Projects session
GENIVI Gatherings

AMM & Open Community Days (Munich, May 2019)

GENIVI Technical Summit (Detroit, November 2019)
GENIVI Industry Outreach

Other 2019-2020 Outreach Events
• CES 2019 & Connect2Car Panels
• CE Week
• SAE Executive Forum
• AutoMobility LA
• Automotive World Webinar on Hypervisor Standards
• Automotive World Webinar on Cloud & Connected Services
• And many more...
CES 2020 Connect2Car Panels

Panel Topics:
• Connected Services
• Electrification & Autonomy
• Automotive Cybersecurity
CES 2020 Networking Reception & Showcase Highlights

1450+ in attendance (new record)
HOW we want you involved
Attending this Summit is a great start!

**Tuesday Schedule**

3:00 PM - 3:30 PM CEST  
*Welcome Keynote & GENIVI State of the Union*

3:35 PM - 4:50 PM CEST  
*Introduction to Active GENIVI Projects*

4:50 PM - 5:00 PM CEST  
*Break*

5:00 PM - 6:00 PM CEST  
*Looking forward #1: Common Vehicle Interface Initiative*

6:10 PM - 7:00 PM CEST  
*Looking forward #2: Cockpit Domain Fusion*

**Wednesday Schedule**

10:45 AM - 12:00 PM CEST  
*Connected Vehicle Software Development*

3:00 PM - 6:00 PM CEST  
*Android Automotive SIG #1 - Vehicle Data APIs / Vehicle Hardware Abstraction Layer (HAL)*

6:00 PM - 6:15 PM CEST  
*Break*

6:15 PM - 7:30 PM CEST  
*Cybersecurity #1- ISO-21434 in practice (replay)*

**Thursday Schedule**

9:00 AM - 12:00 PM CEST  
*Android Automotive SIG #2 - Audio Hardware Abstraction Layer (AHAL)*

10:45 AM - 12:00 PM CEST  
*Cybersecurity #1- ISO-21434 in practice (replay)*

3:00 PM - 6:00 PM CEST  
*Cloud & Connected Services*
Consider one of these active roles

• Technical Contributor … attend next session on Active GENIVI Projects
• Reviewer of Outputs … watch for draft project deliverables (genivi.org)
• Adopter of Outputs … engage in full tech development lifecycle
• Community Participant … connect with like-minded stakeholders during events (next GENIVI Member Event on 27-29 October 2020 in Leipzig)
• Member of GENIVI … fund the work and receive member benefits

Action for members: Visit often the GENIVI Blog (and set “Watch this Blog” flag on that page) (https://at.projects.genivi.org/wiki/pages/viewrecentblogposts.action?key=WIK4)

Action for non-members: Sign-up for GENIVI Updates (https://forms.gle/GGgLwRF6oKcy21E9 or visit genivi.org and click link at bottom of page)
The Road Ahead
2020 Board of Directors

Jochen Böhm*
Area-Lead Development LINUX-/GENIVI-Platform at BMW CarIT

Dr. Andree Zahir
Senior Vice President at Robert Bosch Car Multimedia GmbH

Hyungjin Jeon
Research Fellow, Advanced Research & Product Planning / Vehicle component Solution Company at LG Electronics

Matt Jones
Chief Systems Architect at Wind River Systems

Michael Ziganek*
General Manager, Automotive Business Unit at Mentor a Siemens Business

Gerald Spreitz*
OSS Strategy Officer at Robert Bosch Car Multimedia GmbH

Tero Salminen
Director Virtualization at OpenSynergy

Ari Aalto
Vice President Automotive and Smart Devices Business Unit at TietoEVRY

* - 2019 Board Officers / 2020 Officer elections on 20 May
President’s Comments

The Automotive Industry is changing...

• ...and GENIVI has started already and continues to adapt!
• Moving away from Linux IVI into multi domain and multi OS opens a new field of challenges and required solutions for the Industry
• The complexity of integration and development of the domain fusion is constantly increasing and we need standards more then ever in order solve the current und upcoming problems
• Our success is depending on the contribution of the community and constant interaction with the industry leaders in this domains
• Let’s work together in the spirit of GENIVI when we have started over 10 years ago and provide valuable solutions to these problems!
Next All Member Meeting

- 27-29 October 2020
- Marriott Hotel, Leipzig, Germany
- Program elements
  - Keynote & GENIVI Project Updates
  - Panels on Trends and Market Futures
  - Technical Breakouts
    - Workshops
    - Panels
    - Demonstrations
- Reception and Members Showcase
- Great networking!
- Stay tuned to: [https://at.projects.genivi.org/wiki/display/WIK4/GENIVI+20th+All+Member+Meeting+~+Leipzig](https://at.projects.genivi.org/wiki/display/WIK4/GENIVI+20th+All+Member+Meeting+~+Leipzig)
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