CVII Community Summit / Working Session

18 February, 2021

Common Vehicle Interface Initiative Welcome!

Today's schedule (times in CET)

~ 1600 Welcome and introductions

~ 1610 Section 1: CVII-related projects, organization and latest news

~ 1715 Section 2: Data/service models and industry alignment

~ 1820 Section 3: Development of the CVII Technology Stack
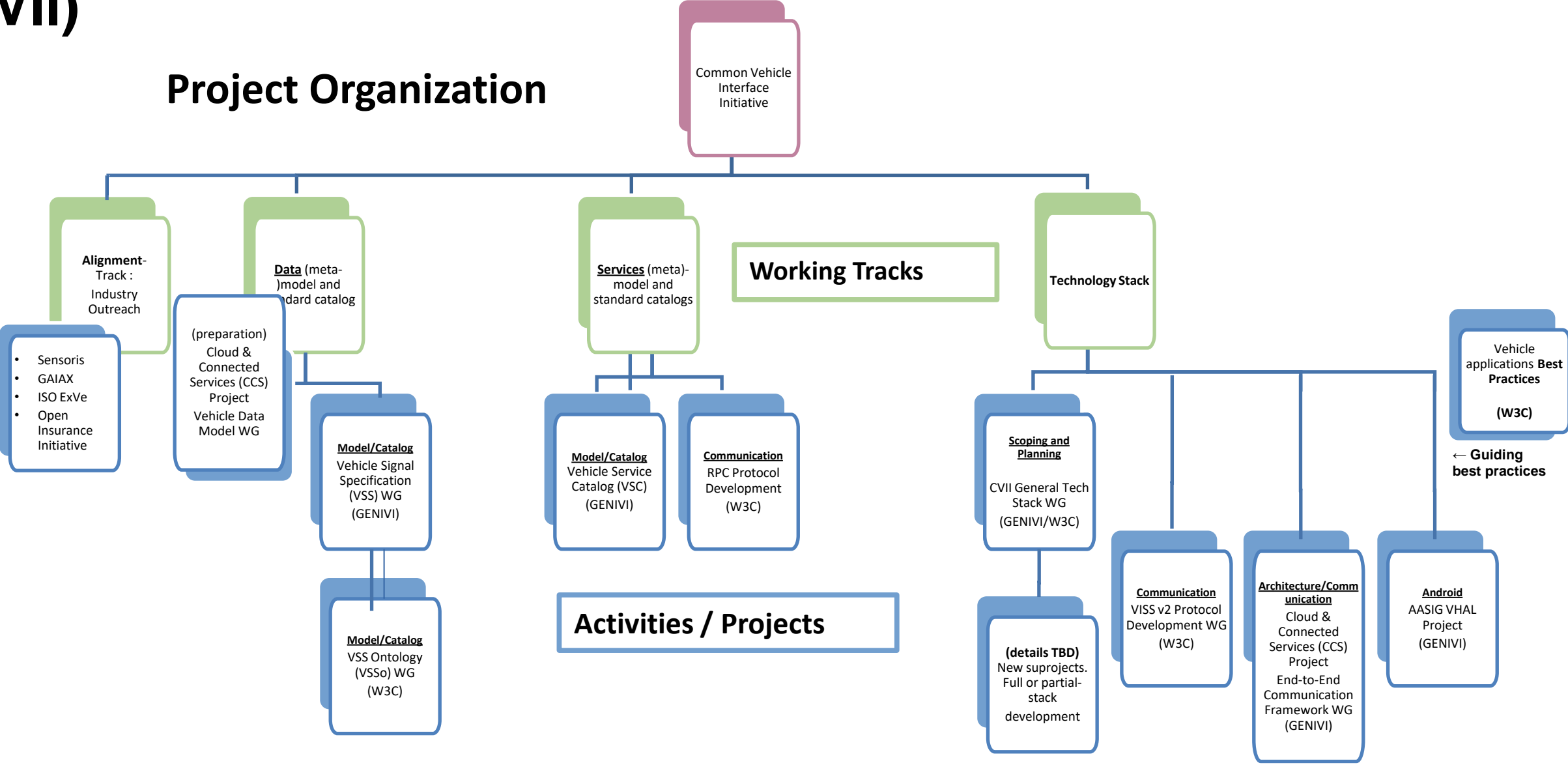
~ 2000 END

There is a short break planned around 1755.

SECTION 1:

CVII-related projects, organization and news

Common Vehicle Interface Initiative (CVII)

Project Organization

Working Tracks

Activities / Projects

Common Vehicle Interface Initiative

Alignment-Track :
Industry Outreach

- Sensoris
- GAIAX
- ISO ExVe
- Open Insurance Initiative

Data (meta-)model and standard catalog

(preparation)
Cloud & Connected Services (CCS) Project
Vehicle Data Model WG

Model/Catalog
Vehicle Signal Specification (VSS) WG
(GENIVI)

Model/Catalog
VSS Ontology (VSSo) WG
(W3C)

Services (meta)-model and standard catalogs

Model/Catalog
Vehicle Service Catalog (VSC)
(GENIVI)

Communication
RPC Protocol Development
(W3C)

Technology Stack

Scoping and Planning
CVII General Tech Stack WG
(GENIVI/W3C)

(details TBD)
New suprojects. Full or partial-stack development

Communication
VISS v2 Protocol Development WG
(W3C)

Architecture/Comm unication
Cloud & Connected Services (CCS) Project
End-to-End Communication Framework WG
(GENIVI)

Android
AASIG VHAL Project
(GENIVI)

Vehicle applications **Best Practices**

(W3C)

← **Guiding best practices**

SECTION 2:

Data/service models and industry alignment

Industry alignment activities for developing "the common data model"

Main topics today:

- SENSORiS
- Open Insurance
- eSync
- VSS Layers Concept (...)
- (not covered in detail today: Digital Twin Consortium, ISO ExVeh, GAIA-X, AUTOSAR, JasPar, and many others...)

SECTION 3:

Developing the Technology Stack

ON A BREAK!
Coming up: ~12 Noon EST, 1800 CET
**Development of the shared *Technology Stack***

Main topics today:

- **A common model for automotive interfaces**:
  The Vehicle Service Catalog (Magnus Feuer)

- Building blocks of a **data centric architecture** (Daniel Wilms, BMW)

- **Bosch** VAPP update and **plans**, **live demo**, **IDE**, and more
  (Lars-Erich Kiefer, Bosch)

Development of the shared *Technology Stack*

Main topics today:

- A common model for automotive interfaces: The **Vehicle Service Catalog** (Magnus Feuer)
- Building blocks of a data centric architecture (Daniel Wilms, BMW)
- Bosch VAPP update and plans, live demo, IDE, and more (Bosch)
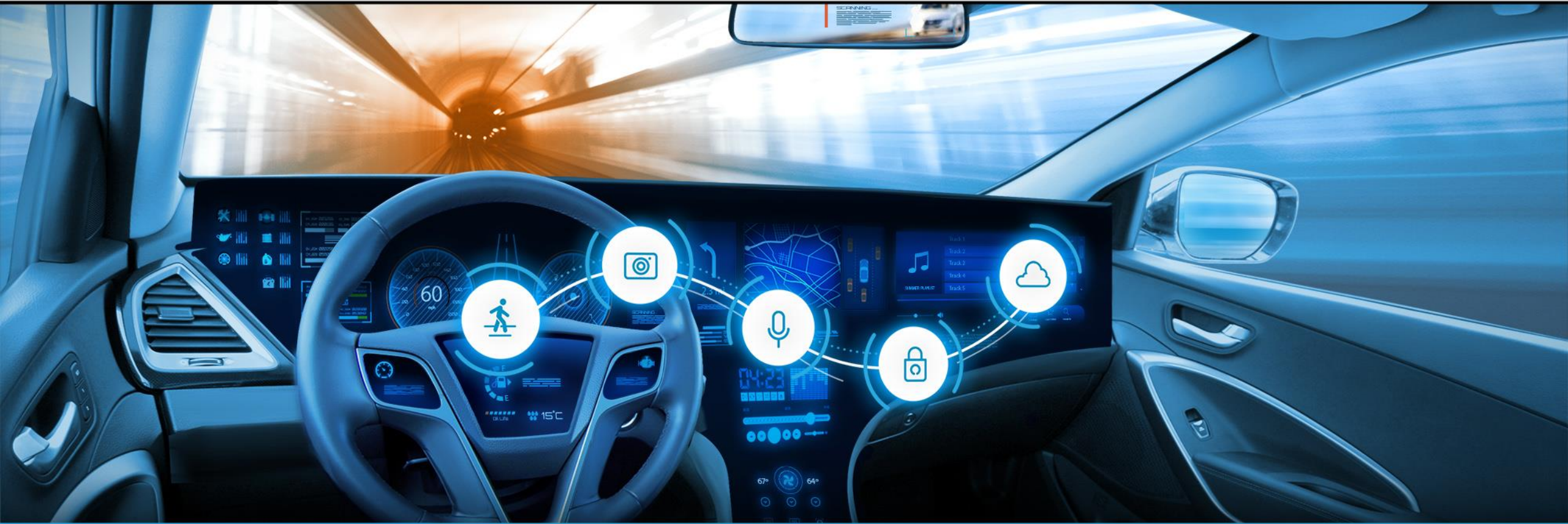
VSS Layers Concept

Vehicle Signal Specification (VSS) – Layers

VSS Layers is a formalization of a relatively simple feature

Some VSS tools can already process and combine multiple definition files.

To add new signals, or to modify.

There is an explicit branch named **/private** where any new signals can be placed.

However, it is also possible to use the VSS-Layer capability.

- **VSS Layers** can add metadata to the signal definitions
- **VSS Layers** are perfect to define a unique "deployment model" in which metadata that is only relevant for this particular usage environment can be added to the standard model.
- **VSS Layers** can add or remove signals, or even modify existing metadata.
- Other usage: **Data categorization, e.g.** privacy sensitivity category
- **VSS -> VSSo transformation?**

As such, layers can be added and removed depending on situation, while keeping the main data model, and a main catalog definition intact.

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```
1  - Seat:
2    type: branch
3    instances:
4      - Row[1,4]
5      - Pos[1,5]
6    description: All seats.
7  #include SingleSeat.vspec Seat
8
```

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Thank you!

Use the wiki pages to find all relevant info:

https://at.projects.genivi.org/wiki/x/n4DNAw

https://www.w3.org/auto/

Contact W3C Transport and Automotive groups:

ted@w3.org

Visit GENIVI:

http://www.genivi.org

http://projects.genivi.org