

# Telematics Standards 2-way communication

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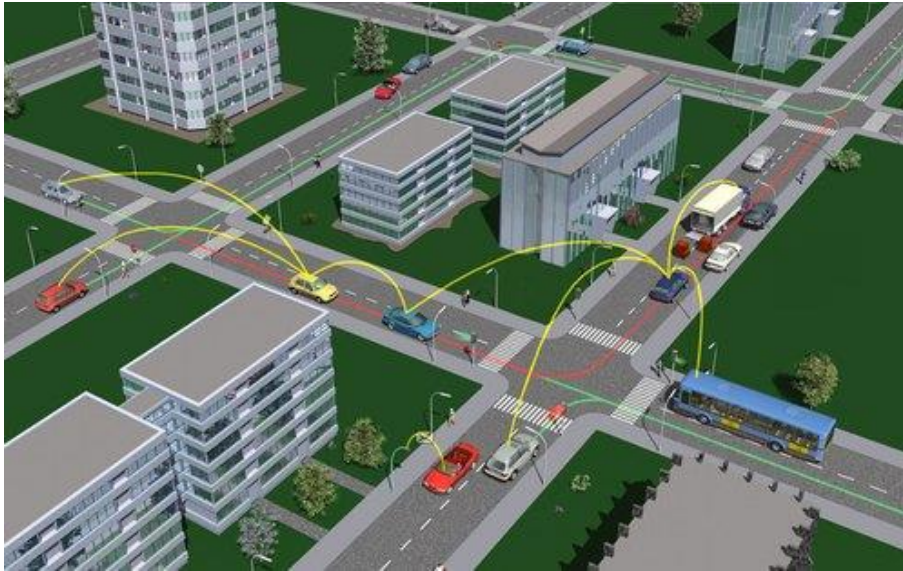
Business Development, ASAM

# Agenda

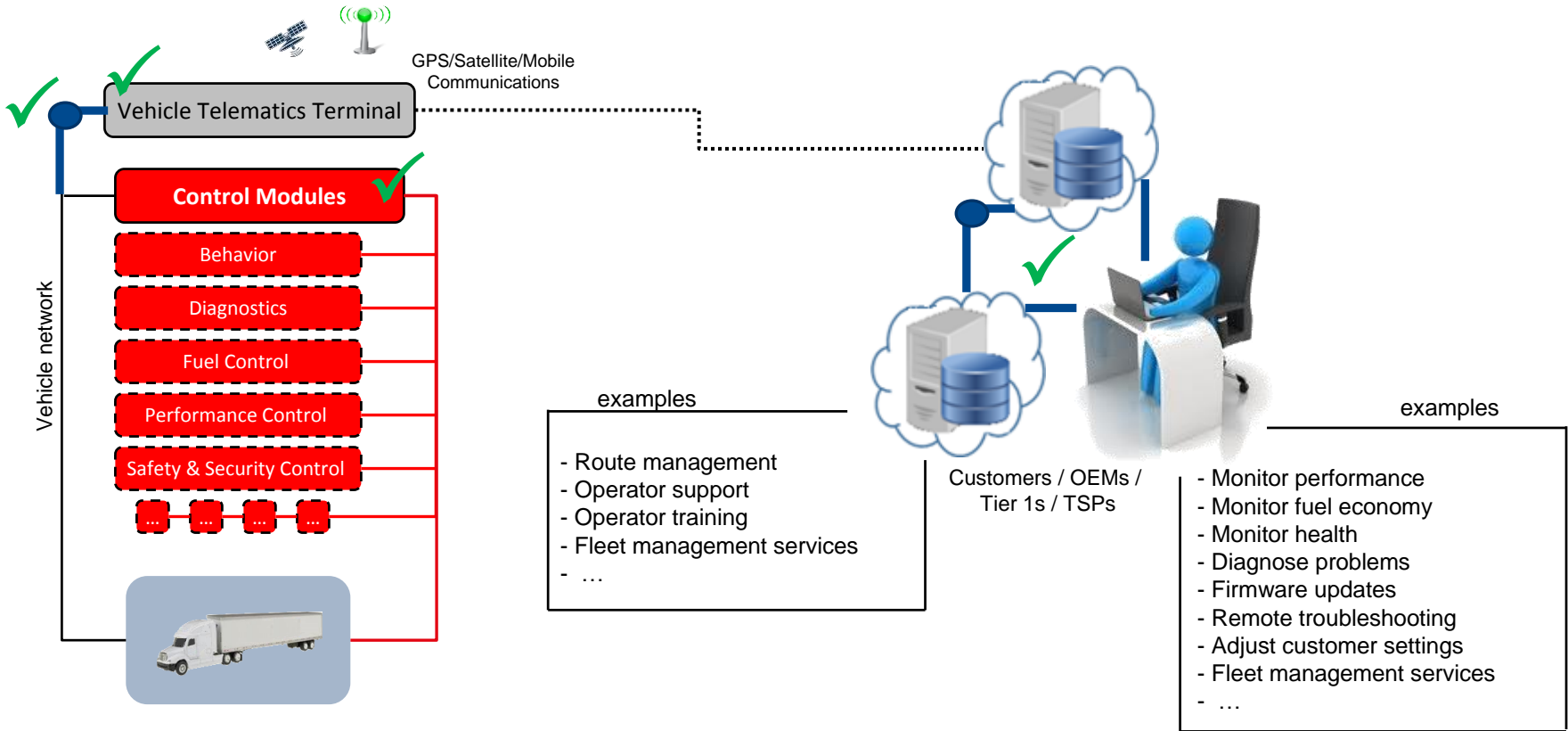
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|----------|--------------------------------|
| <b>1</b> | Initial scope definition in US |
| <b>2</b> | Problem statement example      |
| <b>3</b> | Work going on in USA           |
| <b>4</b> | Group discussion               |

## What is the initial proposed telematics scope for ASAM in US?

-  Vehicle to vehicle / car2car (V2V / C2C) and Vehicle to infrastructure (V2I)
-  Infotainment (GENIVI)
-  Public data communication (SAE j1939)
-  Wireless technologies



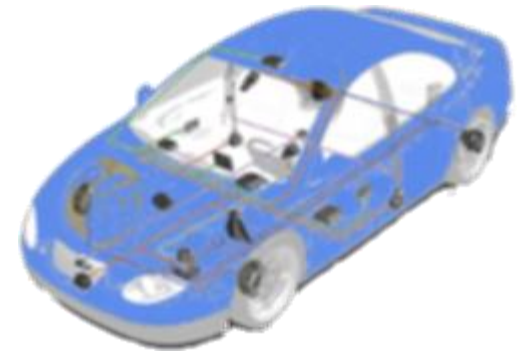
# What is the initial proposed telematics scope for ASAM in US?



<b>2 way communication</b>	<b>Definition of protocols and exchanges methods</b>	<b>Not a definition of the data itself</b>
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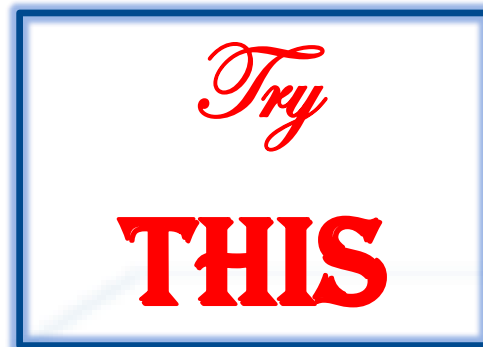
## Problem statement example – Remote Firmware Update

- ▶ Deliver consistent user experience while performing remote firmware update on multiple smart devices (control modules), provided by different suppliers, in a vehicle network.
- ▶ Why does the problem exist?
  - No standard for the smart / control modules
  - Multiple telematics providers
    - OEMs, 3<sup>rd</sup> party providers and/or custom solutions for mixed fleets
    - No standard for the telematics hardware and user interface
- ▶ Possible solutions
  - Develop proprietary methods and require all suppliers to comply
    - Requires long lead time any time new supplier is introduced
  - Develop an industry standard
    - Need to ensure non-competitive scope



## Other examples

- ▶ Telematics security for devices with wireless/remote access to vehicle network
- ▶ Remote adjustment
- ▶ Remote diagnostics
- ▶ Prognostics
- ▶ Big-Data exchange services



**OEM and Tier 1 view**

# Work going on in USA

## ▶ OEMs and Tier 1s initial workshop

- March 31<sup>st</sup>, Novi, MI
- [Link](#) to event

## ▶ Objective

- Explore common non-competitive business use cases and to document opportunities where collaboration in standardization would reduce time, manpower, or costs.

## ▶ Why ASAM?

- Proven record, focus (right size) and alignment with the industry
- Many similar standards exist
  - Need to update and add to be remote “friendly”



# Goal

- ▶ Explore the role of the telematics box in the equipment
- ▶ Discuss role(s) of “Telematics Service Providers”
- ▶ Gather use cases from the participants and determine top 3
- ▶ Develop “Champion” charter
  - Clear scope of working area
  - Guiding principles for the system elements
  - Master list of use cases with a priority
  - Evaluation of impact and integration with other organizations/standards
  - Develop workgroups with a common set of views on the top 3 topics
    - Identify participants and leaders
      - Fleets, Telematics Service Providers, OEMs, Tier 1s ...
    - Develop plan for next steps



# Group Discussion

- ▶ What are the needs of the Japan group?
  - Use case wish list...
  - Are there non-competitive areas for collaboration in Telematics?
- ▶ Who is actively working on the topic?
- ▶ What are the challenges to enable connected vehicles in a global economy?
- ▶ What are possible next steps?
- ▶ Common use cases with the US group?

