



Session 4

Status and Session Orientation

Web Conference
8 September 2020

FRAV-03 Discussions



- Nature and content of the ODD chapter
- Nature and content of the System Safety chapter
- Response to VMAD's request for input after the September GRVA

- Nature and content of the ODD chapter
 - Manufacturers provide ODD descriptions (ADS uses and constraints)
 - Descriptions enable use of high-level requirements for specific ADS
 - Does “ODD” cover the expected information needs?
- Nature and content of the System Safety chapter
- Response to VMAD’s request for input after the September GRVA

- Nature and content of the ODD chapter
 - Manufacturers provide ODD descriptions (ADS uses and constraints)
 - Descriptions enable use of high-level requirements for specific ADS
 - Does “ODD” cover the expected information needs?
- Nature and content of the System Safety chapter
 - System safety includes ADS design, operational safety, and safety methods
 - What should the “System Safety” chapter focus on?
- Response to VMAD’s request for input after the September GRVA

- Nature and content of the ODD chapter
 - Manufacturers provide ODD descriptions (ADS uses and constraints)
 - Descriptions enable use of high-level requirements for specific ADS
 - Does “ODD” cover the expected information needs?
- Nature and content of the System Safety chapter
 - System safety includes ADS design, operational safety, and safety methods
 - What should the “System Safety” chapter focus on?
- Response to VMAD’s request for input after the September GRVA
 - VMAD has requested clarity on FRAV output by October
 - FRAV should transition to work on individual specifications under D5
 - How should FRAV develop these specifications?

- **ODD Descriptions**

- ODD includes what regulators say it should include
- ODD refers to external conditions
- ODD definition implicitly refers to external conditions
- ODD definition should explicitly refer to external conditions
- Chapter should be ODC with subsections for ODD and other constraints

No Consensus

- **System Safety**

- Too broad because refers to design aspects and safety methods
- Functional safety and operational safety refer to methods
- DDT refers to functions necessary to operate a vehicle in traffic

Needs focus

Transition FRAV to work on individual ADS safety requirements

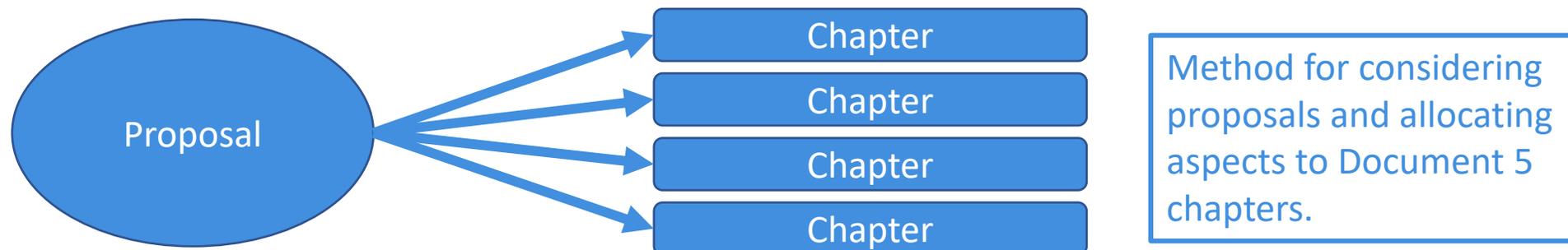


Reach working consensus on Document 5 development



Reach working consensus on ODD chapter issues

Reach working consensus on System Safety chapter issues



Hypothetical Discussion of Proposal

“The system shall detect and identify lane markings”

“Too specific—ADS may not need lane markings”

“Yes, but some ADS may rely on lane markings”

“Lane markings were invented to assist in vehicle positioning”

“Safe positioning depends on position/movement of other road objects”

“‘Lane markings’ should be under ODD”

“ADS should maintain safe road position”

“Based on road/lane widths and road objects”

“ADS should determine road position”

“ADS should detect and respond to objects”

How do we address this kind of discussion under Document 5?

- ODD discussion
- System Safety discussion
- Method/guidelines for considering individual proposals
- Work plan and schedule for scoping out requirements
 - Proposal discussion guidelines
 - Break down safety performance into 3-4 aspects to enable focused sessions

Near-term goals are to respond to VMAD's request by late September/early October and to have lists of statements/elements for ADS provisions before the November WP.29 session.