Modular GSN in ASCE

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Summary

- Feedback on beta extensions
- Use of ASCE 4 architecture
- Recent Updates
- Screenshots
- Availability
Overview

- Previously presented at GSN club and ASCE User forum
  - Aiming to cover core use cases for Modular GSN
- Since we last spoke...
  - Working with IAWG – Integrated Avionics Working Group
  - Feedback on current beta
Recent updates

- Terminology
  - Package view -> Architecture view

- Schema
  - Now uses better shapes for modules

- Architecture discovery
  - Now we distinguish authored from discovered links
    - In early stages of architecting, may want to state intention
    - But as architecture evolves need to know “in fact” linkage
Modular GSN extensions

- Uses many aspects of ASCE v4
  - ASCE v4 display engine
    - Decorators to show away goal information
  - Custom navigation behaviours
    - E.g. Goto away goal
  - Plugin engine
    - Forms to select linked networks and nodes
    - Context menus
  - Loading other networks
    - Scanning for dependencies
    - Building the package view
Target look and feel

- **SysAccSafe**
  - {System X} is acceptably safe

- **SRFunctions**
  - Safety Related functions of {System X}

- **ArgOverFunctions**
  - Argument over all identified safety related functions of {System X}

- **FunctionsInd**
  - All functions are independent

- **FnASafe**
  - Function A operation is acceptably safe

- **FnBSafe**
  - Function B operation is acceptably safe

- **FnCSafe**
  - Function C operation is acceptably safe

- **FnAArgument**
  - Safety Argument for Function A

- **IndependenceArg**
Implementation in ASCE
Architecture view
Module view navigation
Module view navigation
Demo
Availability

- Beta plugin and schema available from Adelard on request
  - asce_support@adelard.com

- Official release will be a chargeable plugin
End of slides