

TC Meeting Date: 10 December 2021 Reporting Chair: Sanford Friedenthal

Group page (URL) https://www.omg.org/syseng/

Group email: syseng@omg.org

## **Systems Engineering DSIG**

Tuesday, December 08, 2021

### **Highlights from this Meeting:**

#### SysML v2 Update and Demo-S Friedenthal, E Seidewitz, M Bajaj

- Walkthrough of Vehicle model from Annex B of the SysML v2 specification to illustrate how to model with SysML v2 (continuation from September meeting)
- ➢ API & Services Overview

# Using SysML4Sec for Model-Based Security Engineering in the Development of Complex Aircraft Cabin Systems – Hartmut Hintze

- Integrates security process with model-based systems engineering process
- > Extends use cases with misuse cases, perform risk assessment, define security measures/mitigations, and flow down of security requirements



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### **Highlights from this Meeting (cont.):**

# Risk Analysis and Assessment Modeling Language (RAAML) 1.0 update – Andrius Armonas, Kyle Post

- > Integrates safety and reliability with model-based systems engineering process
- Supports multiple safety standards and analysis (e.g., FTA, FMEA, Functional safety, System theoretic process analysis, and goal structure notation (GSN)
- > In finalization with multiple tool implementations

#### **MBSE-Driven Digital Threading in Electronics – Mark Malinoski**

- Modeling approach to deal with complexity of electronics requirements, architecture, and verification from LRU to chip level
- Utilizes Arcadia/Capella with generation of SysML v2 views, integrated with simulation
- Emphasis on automating workflow

#### Scalable server-side SysML Execution Service - Nerijus Jankevicius

- Goal is to make simulation available to masses
- Move execution from client to sever, and provide web access view Rest API