Standards Development Organization®

Systems Engineering DSIG

- **Tuesday, September 28, 2021**

Highlights from this Meeting:

SysML v2 Revised Submission Overview – 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
- ➤ API & Services Overview

Proof of Concept for Executing SysML v2 Models – B Cole, S. Balestrini

- ➤ Demonstrated approach to interpret a SysML v2 model to perform analysis
- ➤ Example model of electrical circuit with varying numbers of resistors and diodes
- ➤ SysML v2 model authored in Jupyter, accessed via the SysML v2 API, and integrated with an OpenMDAO solver to perform the calculations

A Model-Based Approach for Europa Lander Mission Concept Exploration – M Lattimore

- ➤ Application of SysML v1 to specify and evaluate multiple surface missions and the autonomy reuqirements
- ➤ Generated documentation in View Editor