

OBJECT MANAGEMENT GROUP ®

TC Meeting Date: 25 March 2022 Reporting Chair: Sanford Friedenthal Group page (URL) https://www.omg.org/syseng/ Group email: syseng@omg.org

Systems Engineering DSIG

• Tuesday, March 22, 2022

Highlights from this Meeting:

SysML v2 Update and Demo– S Friedenthal, E Seidewitz, M Bajaj, Y Bernard, T Wielkiens

- SysML v1 to v2 transformation mapping and pilot implementation
- SysML v2 language
 - Time semantics and change/time triggers
 - Spatial semantics and geometry
 - > Language extension, model interchange, execution semantics in process
- SysML v2 API & Services update
 - > Initiated library of ecipes / higher level calls

Enterprise Architecture Guide for UAF – James Martin

- Provides guidance for modeling an enterprise
- UAF includes 230 stereotypes and over 100 views
- Grid that specifies key artifacts for each viewpoint and views



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Highlights from this Meeting (cont.):

Digital Pipelines – Manas Bajaj

- Phase 2 SBIRS project about 20% complete
- Digital thread can represent data and relationships impacted by an engineering change request
- Pipeline enables automated workflow and capture of digital thread
- > Syneia is an example tool that supports digital pipeline

Open MBEE MMS Architecture – Jason Han, Blake Regalia

- Open MBEE Provides an open-source integration environment for model-based engineering
- Rearchitecting the environment to v5 to better enable application integration
- Leveraging semantic web technologies (RDF triple store, SPARQL,)
- Tilting at Windmills Matthew Hause
 - Analysis of complex root cause of Texas grid failure
 - Used UAF to perform the analysis and establish potential militigations Copyright © 1997-2016 Object Management Group, Inc. All Rights Reserved. OMG TC Status Report - Version 1.3, omg/2016-12-02