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When

Wednesday March 13th 2019 from 11am-12pm EDT (3pm – 4pm UTC)

Topic

Encouraging Broader Engagement and Collaboration across the Enterprise using MBSE Tools

Speakers

Eric Brower, Paul Goossens and Hisashi Miyashita



Abstract

As model-based methodologies and the tools to support the systems engineering function are becoming mandatory in engineering projects, team managers are challenged with encouraging all stakeholders to share information and decisions from their own activities through the systems model as the “single source of truth”. Traditionally, this would be achieved by either forcing all stakeholders to learn to use the same tools as the systems engineers, or transfer the information through documents, spreadsheets, emails, and frequent design review meetings. Either approach introduces significant risk and can lead to missing or erroneous data, causing problems later in the process that can be extremely costly and disruptive to the project.

In this webinar, attendees will hear from NASA’s Jet Propulsion Laboratory (JPL) about a recent pilot project that introduced ways to broaden engagement with their SE practices using MapleMBSE, a tool that uses Excel as the user interface. MapleMBSE provides a technology that generates task-specific views into the system model, serving up the relevant information in tabular or matrix forms that can be directly edited, all with a live connection to the systems model. This allows stakeholders, from all disciplines and functions throughout the enterprise, to collaborate via the model and engage more effectively with Systems Engineering process.

Attendees can expect to learn more about the various ways that JPL was able to broaden engagement and collaboration, and see how these techniques might apply to their own organizations.

Biography

Eric W Brower is a Software Systems Engineer at Jet Propulsion Laboratory (JPL) working primarily in Computer Aided Engineering (CAE). In the Engineering Tools and Data Management group, he provides support of the CAE Systems Environment for engineers at JPL. He is embedded on the Europa Lander Flight System Engineering Team. In this embedded role, he adapts the standard CAE Systems Environment to the specific needs of the project.

Paul Goossens is the Vice President of MBSE Solutions at Maplesoft. A mechanical engineering with over 20 years of experience in both engineering and software business management, his previous roles include senior management positions for companies in the fields of system-level modeling and simulation. He oversees the Systems Engineering Solutions Business Unit that provides tools and services to support customers’ Model-Based Systems Engineering (MBSE) processes for product design and operation. At the core of his activities is Maplesoft’s latest product, MapleMBSE, an Excel-based tool to help democratize the SE process and broaden SE engagement across the enterprise.

Hisashi Miyashita is the Chief MBSE Architect at Maplesoft, and a member of the SysML submission team. He has over a decade’s experience in the areas of MBSE and Model-driven technologies, and has led the development of MapleMBSE for Maplesoft. He has extensive experience in the application of

MBSE in Automotive, Aerospace and Defense industries, particularly in the areas of requirements analysis, process automation, validation and verification, and productive modeling environment.

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<https://www.incose.org/systems-engineering-certification/certification-faqs>

Regards,

Andy Pickard

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