

Benefits

Accelerate the Specification Agreements between the OEM and Supplier

- Identify and resolve requirement and specification issues early through simulation validation.
- Enhance estimate accuracy and reduce time by converting system specification into model assets.
- Enable agile feedback on the impact of requirement changes by improving traceability.









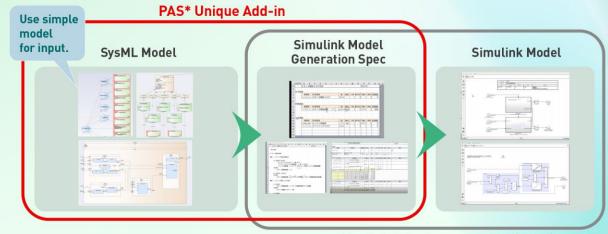
Technical Advantages

Build Efficient MBSE-MBD Model Auto-conversion Flow

Generate Simulink models from simple SysML models without extra steps. **[** Fig.1 **]**

Automate model conversion by combining commercial tools and unique algorithm. 【Fig.1】

Use a unique algorithm to find the design information needed for model conversion efficiently. 【 Fig.2 】

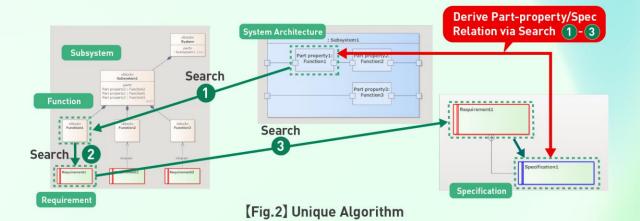


Simulink Auto-Generation Tool(COTS)

Model Auto-conversion

*PAS:Panasonic Automotive Systems Co., Ltd.

[Fig.1] Model Auto-Conversion Flow







Detect omissions

through simulation

validation.

Applications

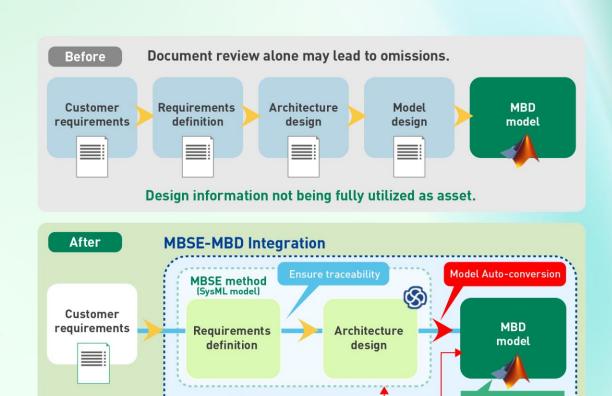
Develop Sequence Control for Large-scale IVI Systems

Problem

- Hard to spot omissions in requirements due to the complexity of state management in IVI system.
- Not utilizing past design assets efficiently, even in derivative development.

Achievement

- Identify areas of requirement changes by improving traceability and simulation validation.
- Build model assets for future development.
- Reduce design and implementation efforts with the model auto-conversion flow.



Model

assetization





Appendix

Development Process Overview

