



MOSA-IF-S-002 “MOSA Payload Manager Interface Standard” Nutshell Overview and Digital MBSE Standard ASOT and Publishing Demo

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Modular Open Systems Approach (MOSA) Payload Manager (MPM)

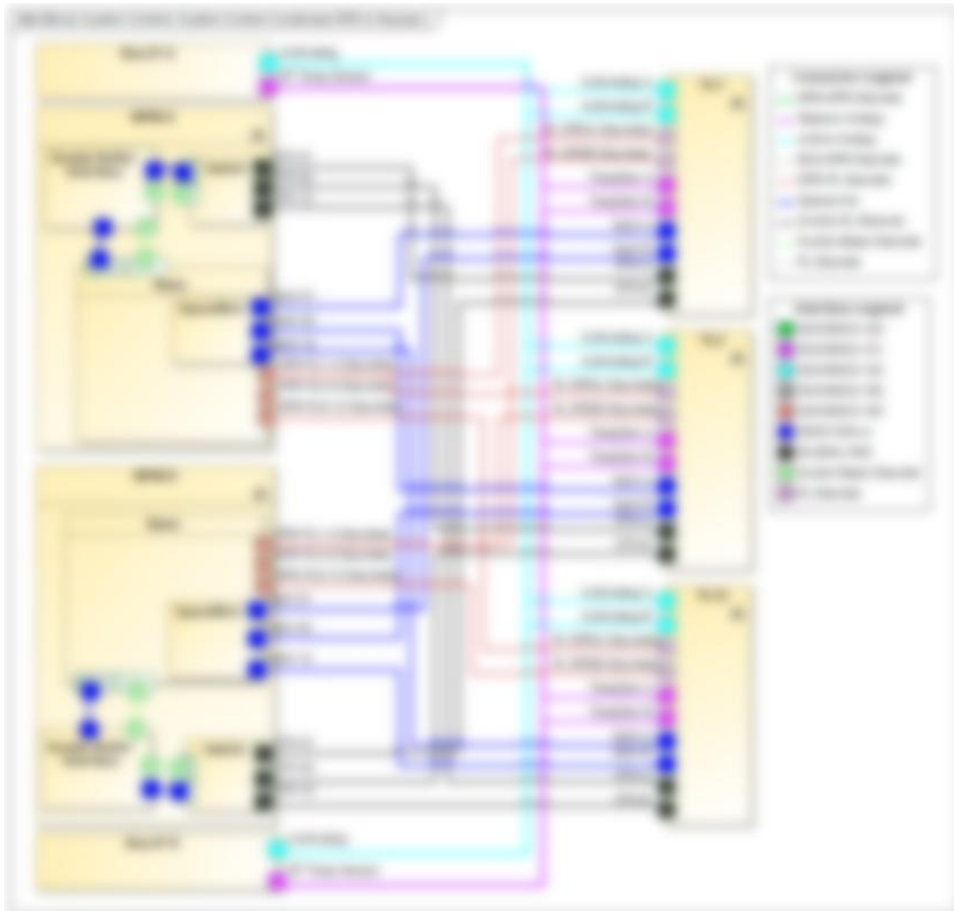
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26 August 2026

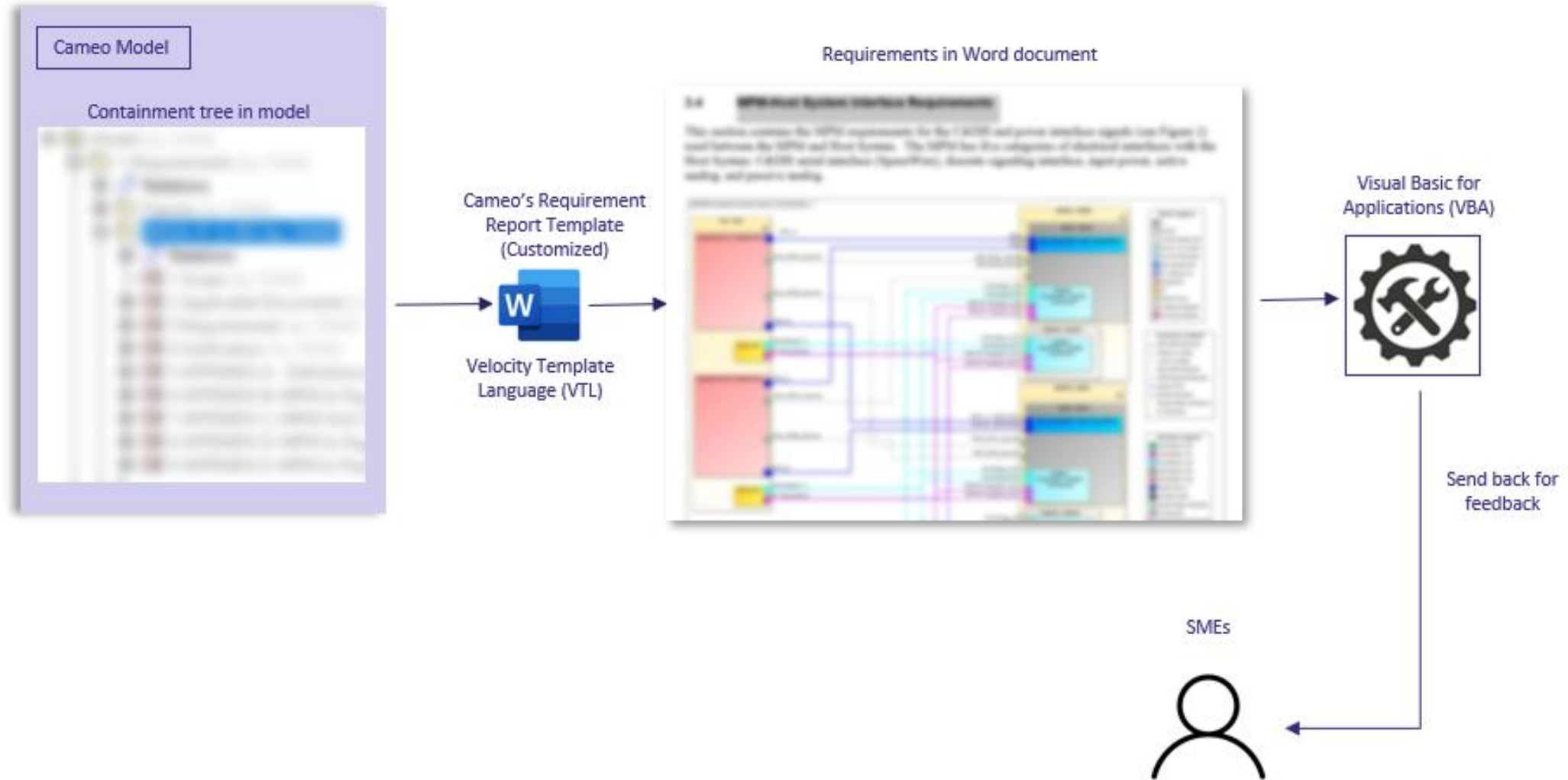


MOSA Payload Manager (MPM)

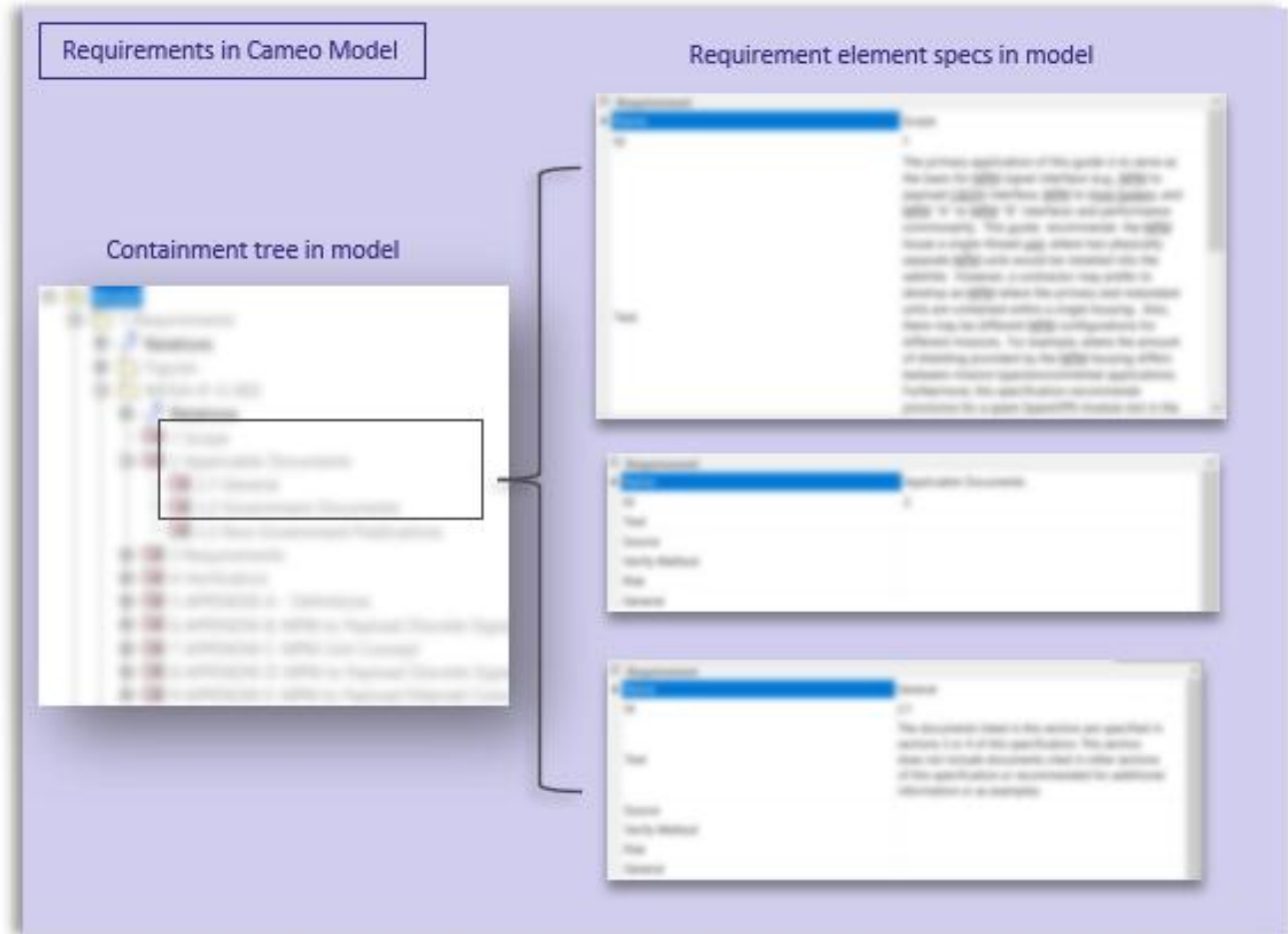
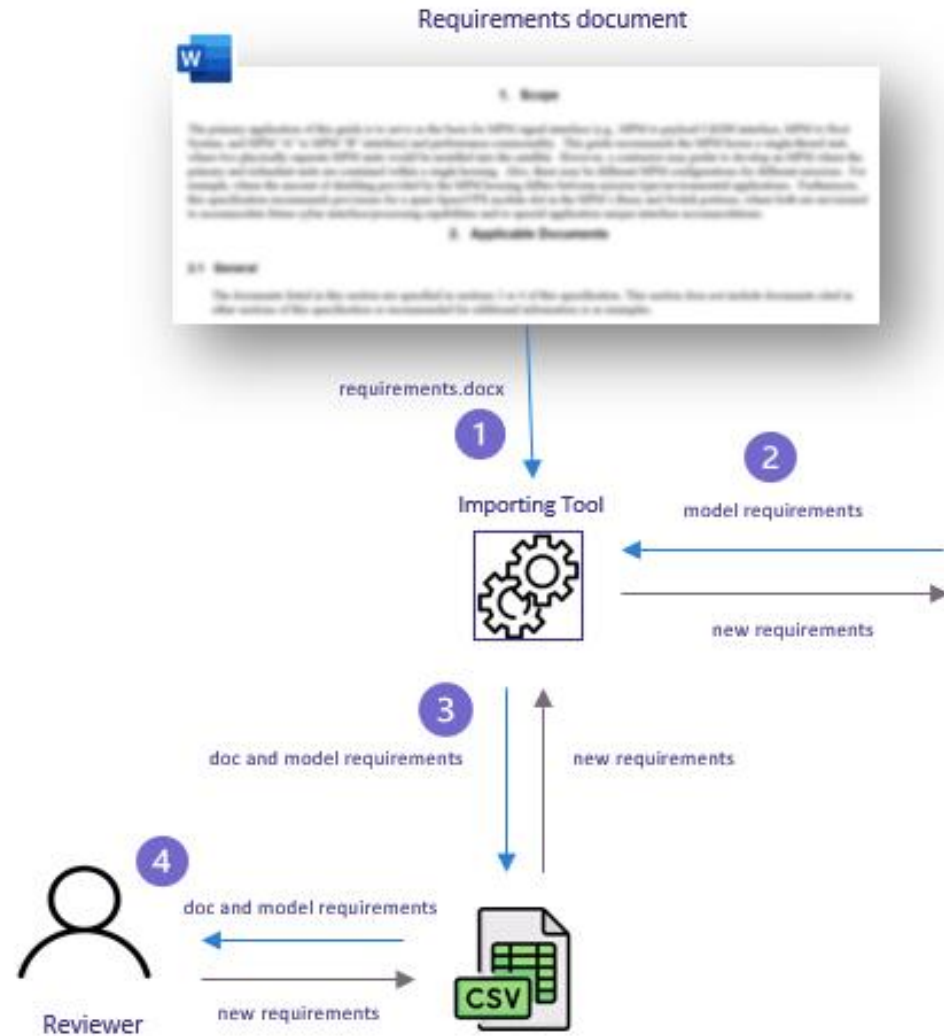
- Represents **MOSA Payload Manager Interface Standard** and the **MPM Unit Specification**
 - Satellite with 2 Payload Managers and 12 Payloads
 - System Definition
 - Quickly Educate



Requirements Export

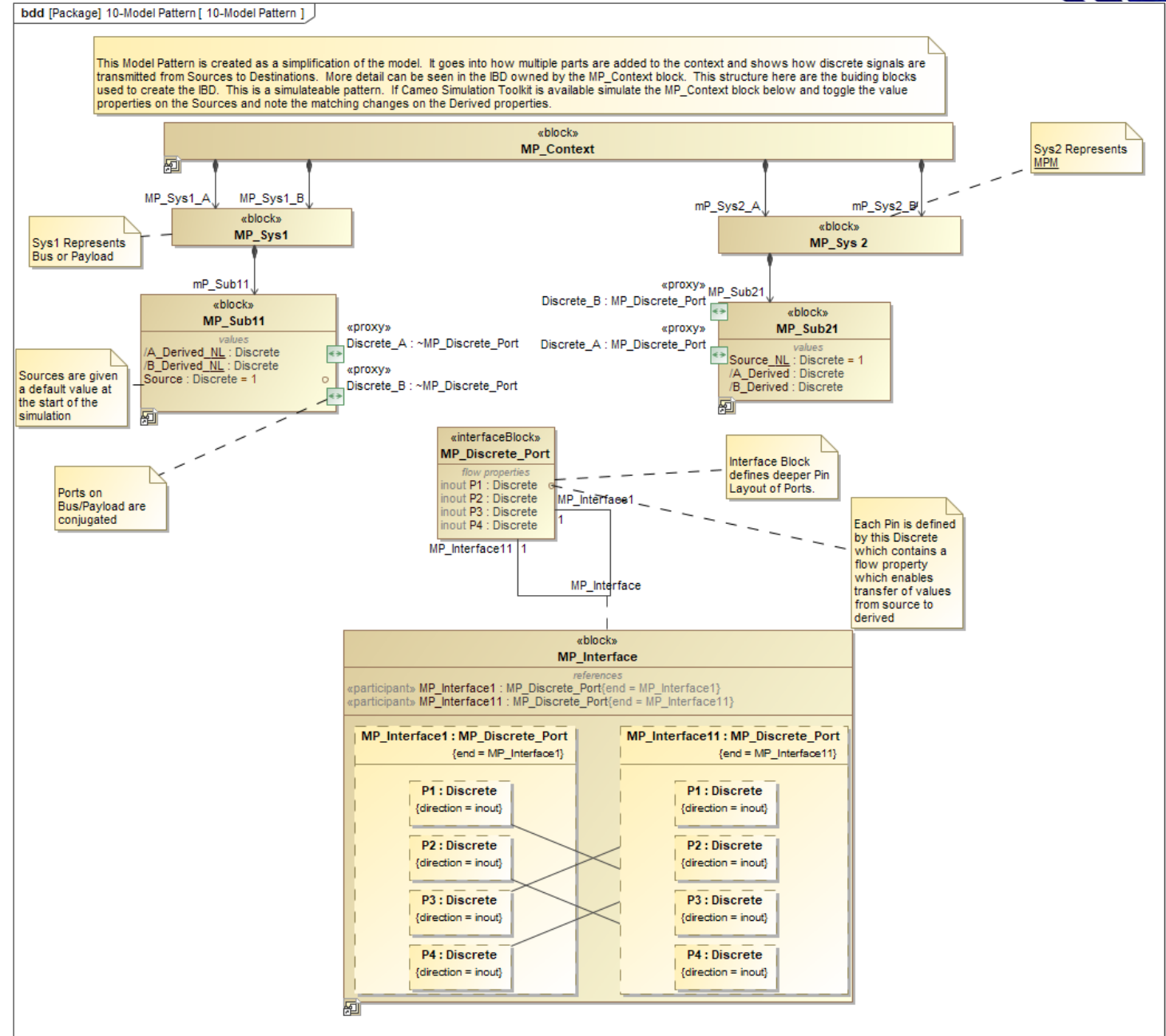


Requirements Import



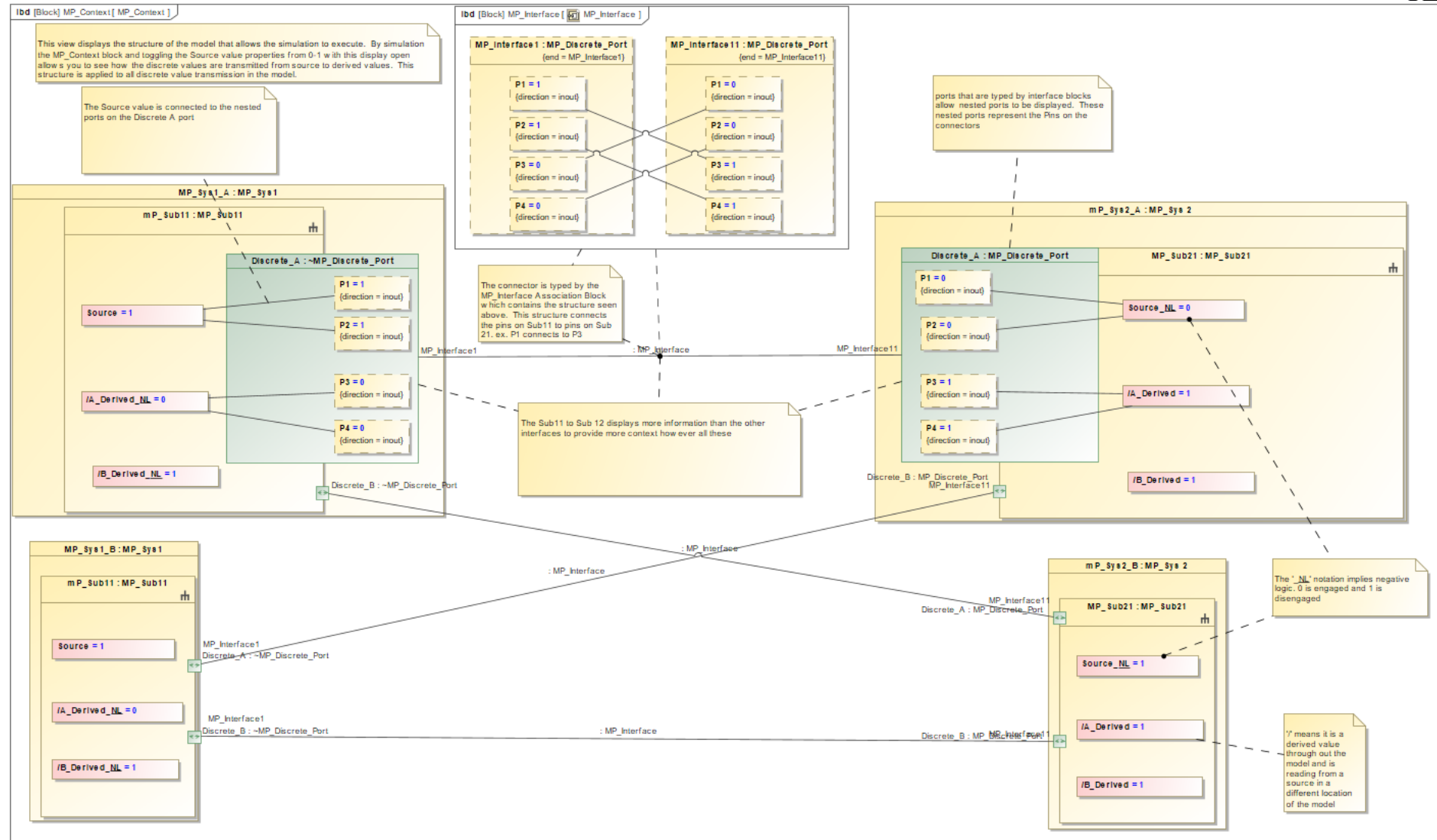
Model Pattern Block Definition

- Structure
- Defines Elements for Internal Connectivity
- Port Definition
- Connection Definition

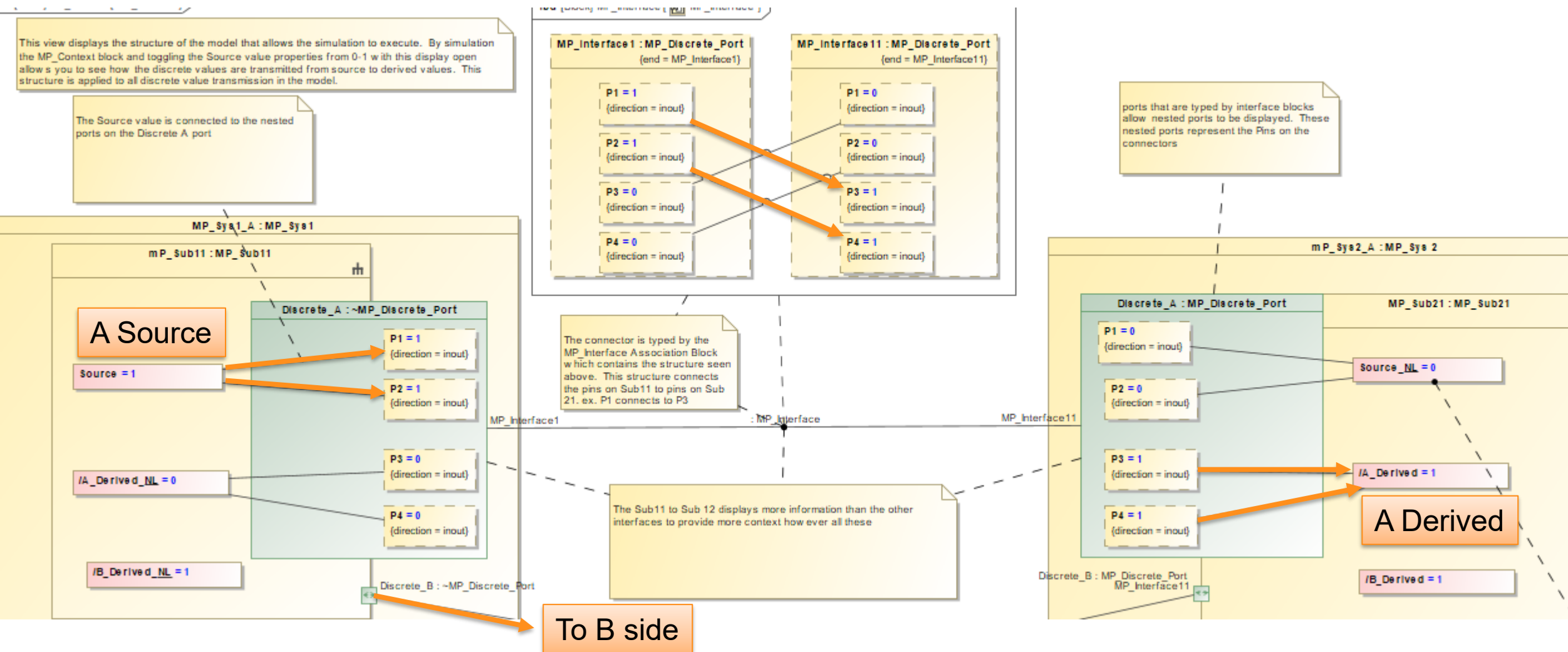


Model Pattern Internal Connectivity

- Displays Interfaces
- Defines Elements for Internal Connectivity
- Reuseable Elements
- Scaled to model
- Simulate able
- Port Definition
- Wire Definition



Model Pattern Simulation



Model Navigation

- Interactive
- Nested
- Interface Definition
- Model Pattern at Scale



Simulation

- Use Case
 - User Instruction
 - Expected Response

- State Machine
 - Responds to User Input
 - Behavior Execution



User Interface

- User Interface
 - User Interaction
 - Configure Settings
 - Track Current States
 - Monitor Payload Interaction

