

# Model-Based Systems Engineering: Documentation and Analysis

## *Key Takeaways*

### WEEK 4: MANAGING THE MODEL

**Model Owner:** The single point of reference for making decisions for the model. Typically the model owner is the one who understands the cost of building and configuring the model and also has authority to change to the model.

The **model management plan** defines:

- Initial Verification and Validation of the model
- Governing the inputs to the model
- Communicating model results
- Model configuration management
- Defining the model owner
- Funding the model
- Process for model changes over the lifecycle
- Model end of life and renewal planning

**Model Curator:** A leadership role within an organization who helps organize and classify models. He or she also helps teams pick the right models to help them achieve their end goals, help set up model configuration related processes for the particular project. They are the go-to person for any modeling related questions and concerns within the organization.

The model curator should have knowledge in each of the following six areas:

- Model Purpose
- Model Characteristics
- Model Selection
- Model Composition
- Modeling Policies
- Modeling Practices

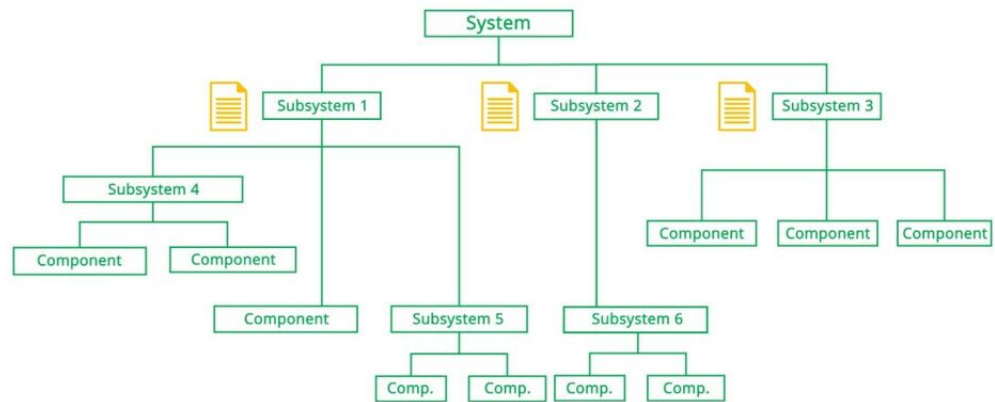
A **pattern** is a general-purpose abstraction of a system, which can be applied to a specific system. The patterns, therefore, provide the following benefits:

- They give the system engineers a selection of tried and tested solutions to work with
- They are sometimes language neutral and if so can be applied to across many languages
- They have a proven track record and thus reduce the technical risk to the project

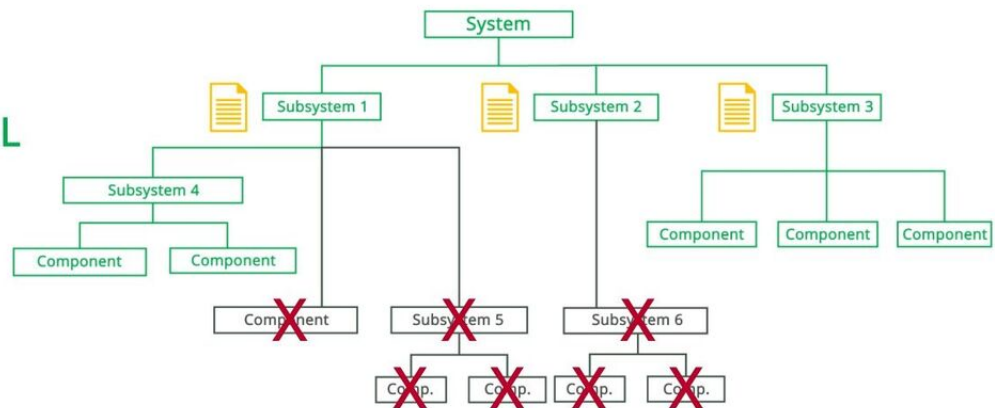
Model Management > Model Owners >



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## WHAT DOES A MODEL CURATOR DO?

