MagicGrid™ Framework for MBSE

Pillar

Requirements

Behavior

Structure

Parametrics

Layer of Abstraction

Problem

Black box

White box

Solution

Requirement Diagram Stakeholder Needs

SysML Use Case Diagram Use Cases

SysML Activity Diagram

SysML Internal Block Diagram System Context

SysML Block Definition Diagram Measurements of Effectiveness

Deterministic Diagram

Requirement Diagram System Requirements

SysML Activity Diagram Functional Analysis

SysML Internal Block Diagram Subsystems Communication

SysML Parametric Diagram Component Parameters

Requirement Diagram Component Requirements

SysML State Machine Diagram Component Behavior

SysML Internal Block Diagram Component Structure

Value property 1

Value property 2

Value property 3