Current Model Management

- Requirements
  - System Architecture
    - Sub-system design
      - Physical design
      - Dynamic models
    - System models
      - Physical model

PTC Integrity
PTC Windchill
Autodesk
Mentor Graphics
Zuken
Cadence
Mathcad
Creo
CATIA
SolidWorks
NX
System Model Management

• Supported applications:
  – Artisan Studio, Sparx EX, PREEVision

• Capabilities / Use Cases*:
  – Configuration management for models
  – Change management across assets including models, requirements, and test cases
  – Capture surrogate representation of model elements
  – Requirements are synchronized into model and back to PTC Integrity
  – Full traceability among assets in PTC Integrity
  – Access controls & approval placed at package level
  – In-work information captured in separate SCM sandbox

*Use case support varies by application
Dynamic Model Management

- **Supported applications:**
  - Matlab Simulink

- **Capabilities / Use Cases:**
  - Configuration management for Simulink models
  - Change management across assets including models, requirements, and test cases
  - Input/output of simulations is captured and managed
  - Auto-generated code captured and linked to associated assets
  - Capture surrogate representation of model elements
  - Linked requirements are synchronized into Simulink
  - Full traceability among assets in PTC Integrity
  - Feedback delivered to Simulink when requirement changes

*Use case support varies by application*
Physical Model Management

- **Supported applications:**
  - xCAD

- **Capabilities / Use Cases**: *
  - Structure products from parts defined in different CAD formats
  - Visualize product structures of data defined in different CAD formats
  - Manage parts defined by multiple CAD tools
  - Manage lightweight visualization models
  - Access controlled data
  - Share/collaborate content to external suppliers/OEMs
  - Capture full history
  - Configure variability from PLM or CAD tool
  - Manage multi-discipline design processes
  - Manage multiple, disparate design data directories
  - Local and server based repository/cache

*Use case support varies by application.*