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DIGITAL TRANSFORMS PHYSICAL

WINDCHILL MODELER 9.5 – WHAT'S NEW

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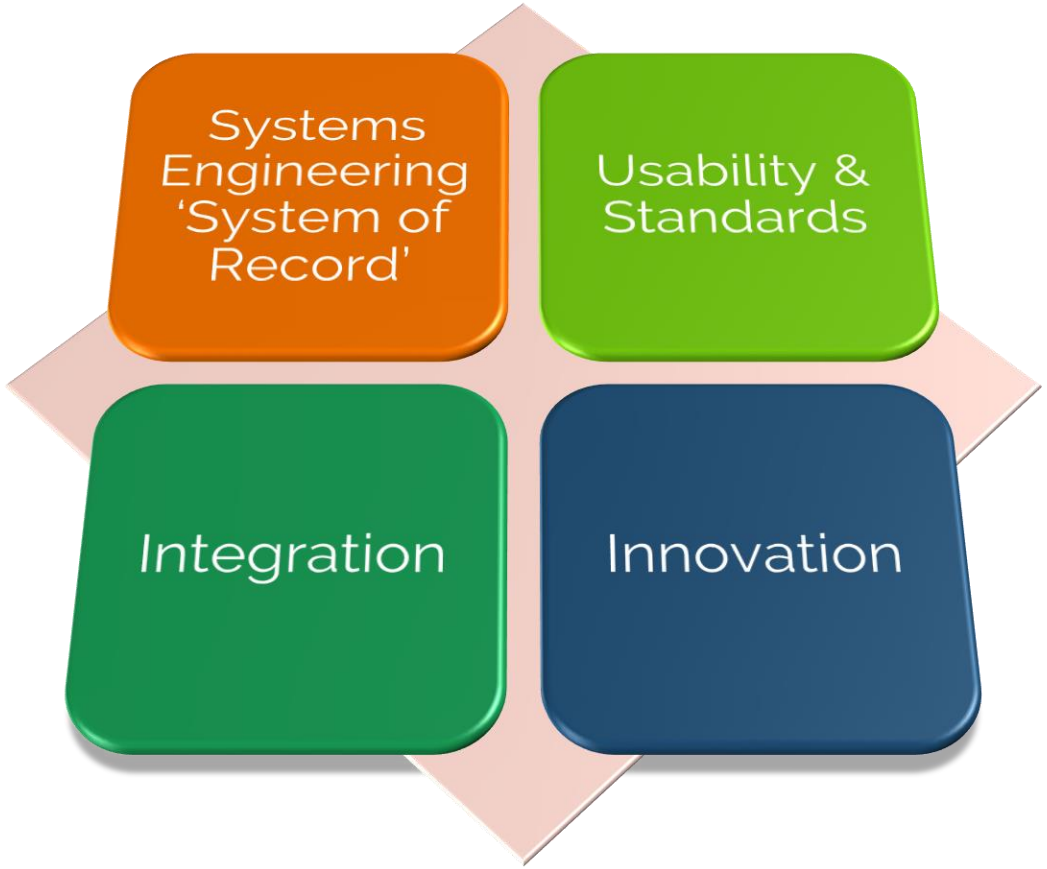
Systems & Software Engineering

February 2022

WINDCHILL MODELER – FOUR STRATEGIC OBJECTIVES

- Systems and Software Engineering 'System of Record'
  - Pervasive, scalable & multi-user
  - Enterprise deployment
- Stunning user experience
  - Contemporary and performant
  - Standards-based Modeling
- Integration
  - Digital thread, enabled with OSLC
  - Automated Code Synchronization (ACS)
  - Co-simulation with 3rd Parties
- with Continual Innovation
  - Product Line Engineering (Variability)
  - Modular System of Systems (SoS)
  - Model Driven IoT…



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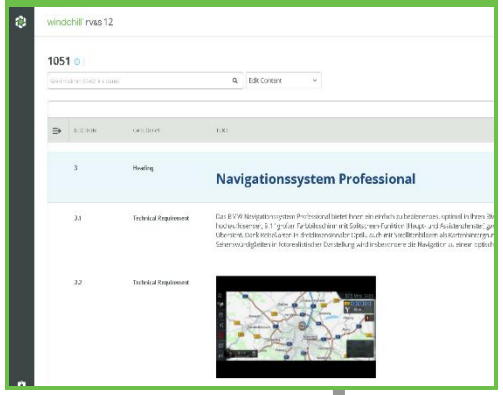
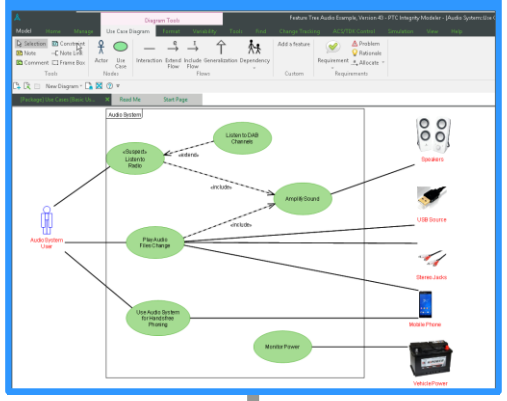
ENGINEERING DIGITAL THREAD

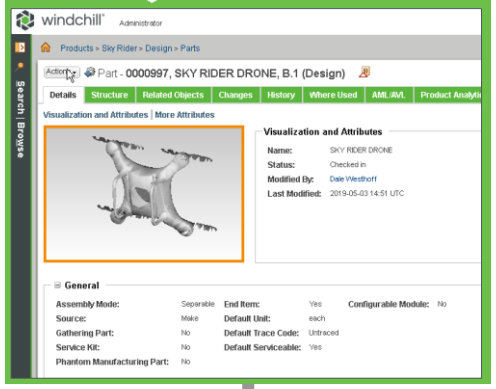
windchill® rv&s



windchill® modeler



windchill®



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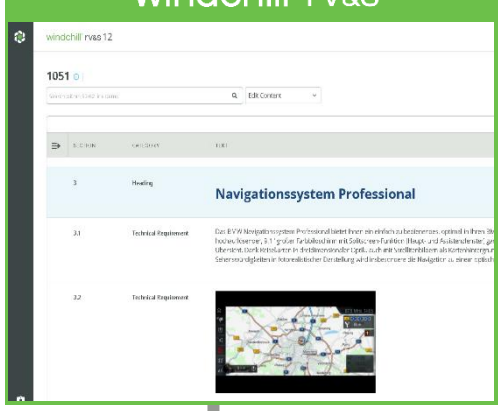

windchill® rv&s

Requirements

windchill® modeler

MBSE

Functions

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MBSE

Logical Structure

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Physical Structure

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Software

GIT

Jira

Matlab / Simulink

Doors

...

3rd Party

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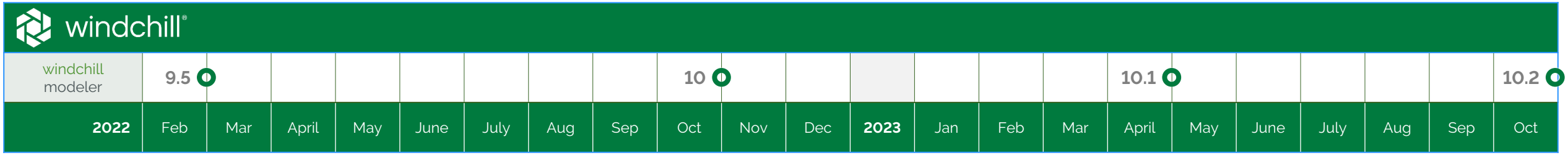
Validation

windchill® modeler - PRODUCT ROADMAP



windchill modeler **Releases**	**Themes**
windchill modeler 9.4 – May 2021	Diagramming, Reviewer, Packages, OSLC & ASAL
windchill modeler 9.5 – Feb 2022	Usability, OSLC, Performance
windchill modeler 10 – Oct 2022	SysML 2.0, OSLC, RTF, Reviewer
windchill modeler 10.1 – Apr 2023	SysML 2.0, OSLC, Software Engineering, Model Management
windchill modeler 10.2 – Oct 2023	Usability, Model Management, Test Management, Advanced PLE
windchill modeler 10.3 – Apr 2024	Usability, Web Interface, Windchill PDMLink Integration, Simulation
windchill modeler 10.4 – Oct 2024	OSLC, Windchill PDMLink Integration, REST, Creo Integration

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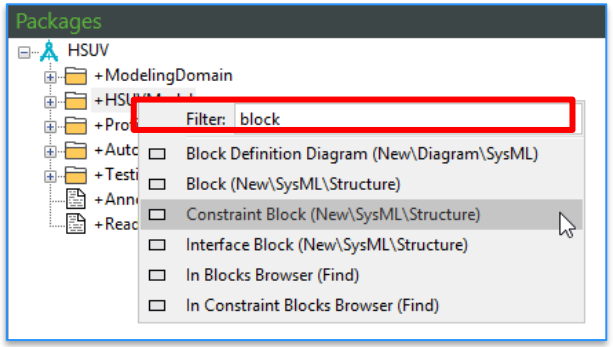
WINDCHILL MODELER 9.5

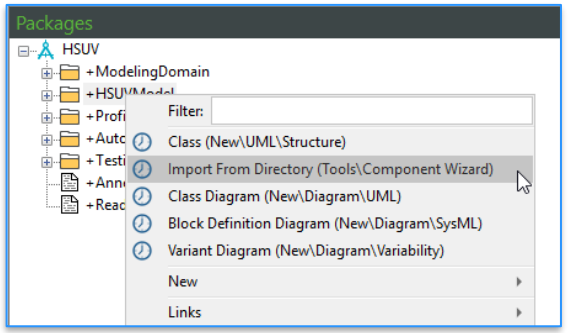
Usability, OSLC, Performance

- Usability
  - Simplified & Productive Item Creation
  - Context menu filtering
  - Frequently used functions
  - Auto-routing optimization
- OSLC Client for Polarion
  - Requirement traceability with Windchill Modeler
- OSLC Integration with DOORS Next
  - Nested global configurations
- Performance
  - Improved performance for reconcile and rebase
- User Help

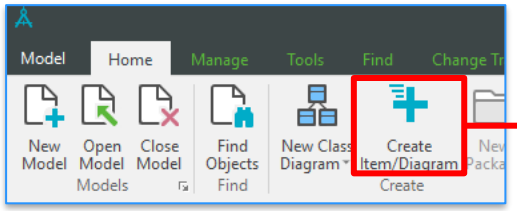
Context menu filtering

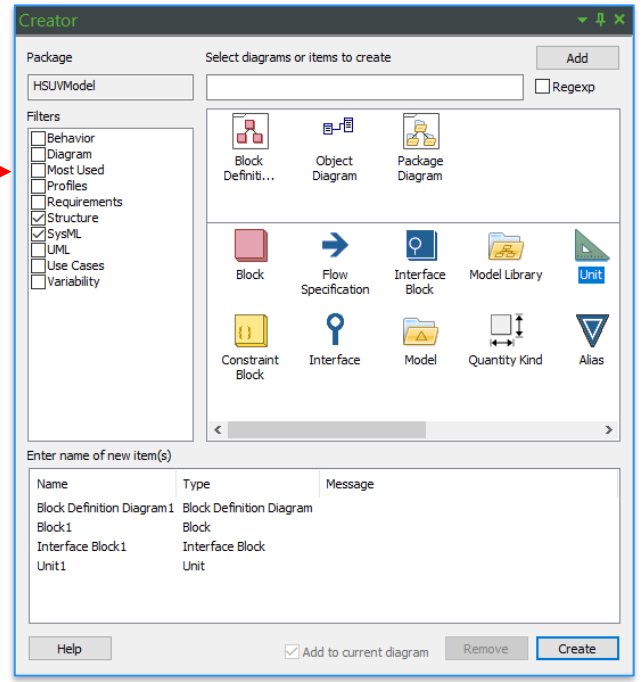


Frequently used functions

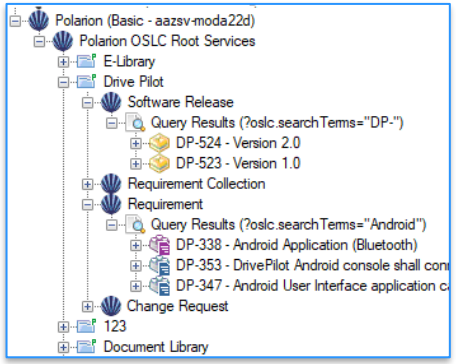


Simplified item creation





OSLC Client for Polarion



Planned for Feb 2022

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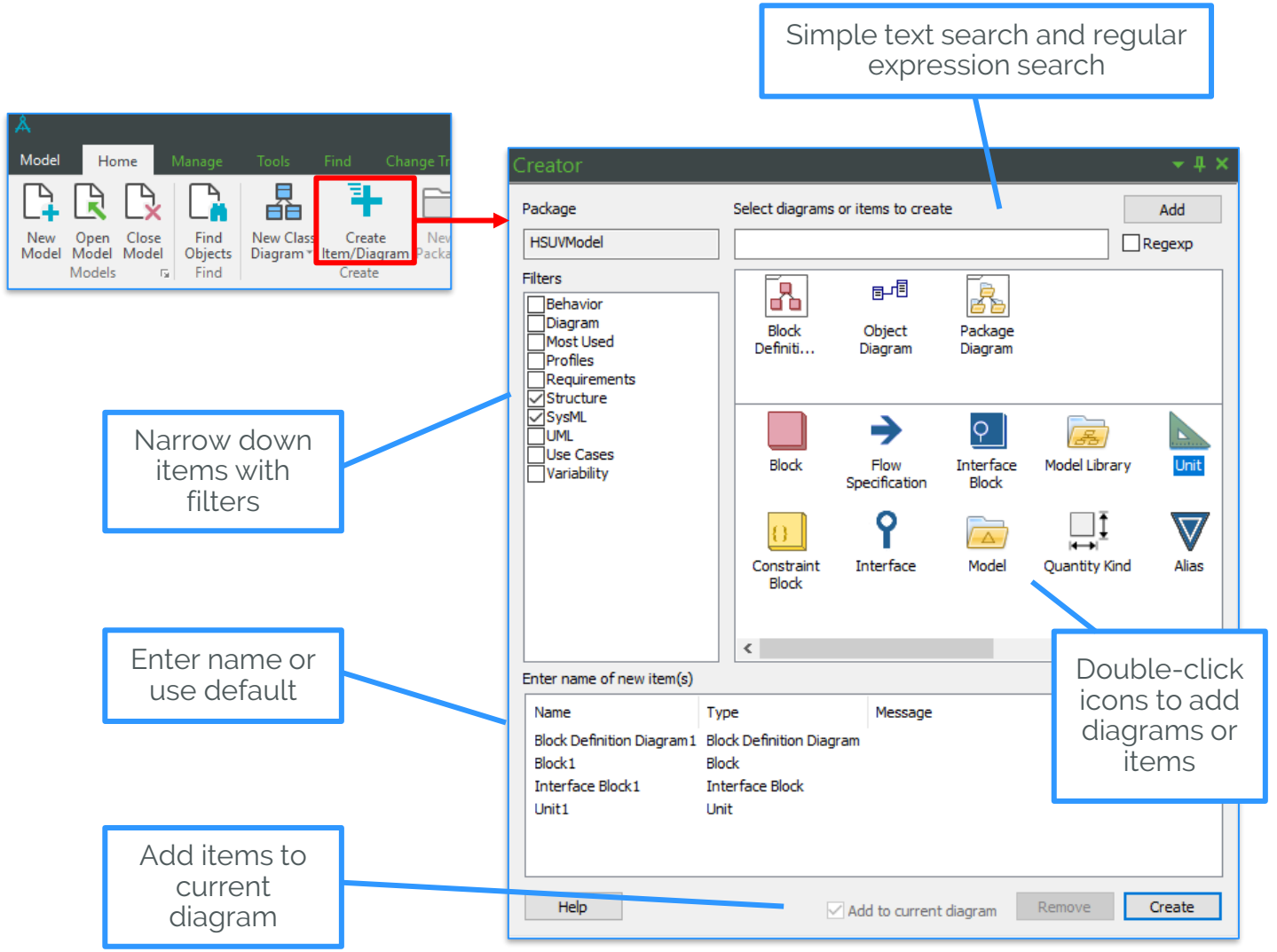
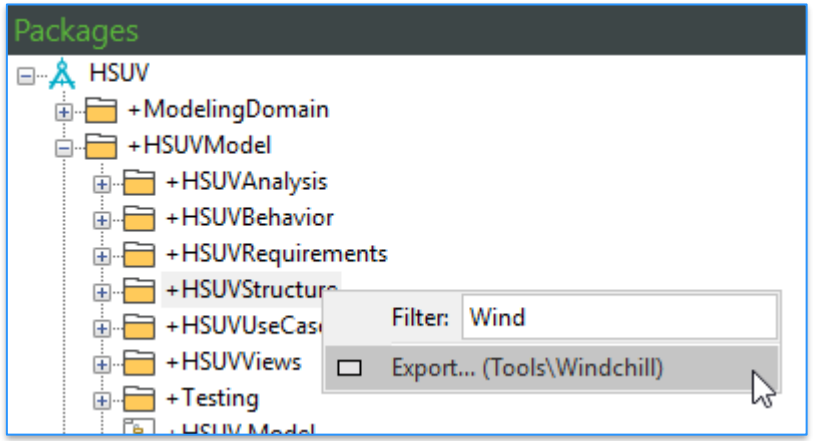
SIMPLIFIED & PRODUCTIVE ITEM CREATION

- Windchill Modeler 9.5 makes it easier for you to create model items and diagrams with the Creator tool
  - Create multiple items and diagrams of different types easily and quickly - in one operation
  - Add new items to the active diagram
  - Use filters and search to easily locate the type you want to create
  - Works with all types of model and profile
  - Modern user experience makes it easy to learn and use



CONTEXT MENU FILTERING

- It's now faster and easier to locate functions on right-click context menus
  - A simple text filter is provided which simplifies the menu to only the matching functions
  - For example, type in "Use" to view all use case related functions only
  - This feature helps to guide new users with a simple way to locate functions, making it easier to create models
  - Existing users have a rapid way to get to functions making them more productive



Context menu filtered using text "Wind"

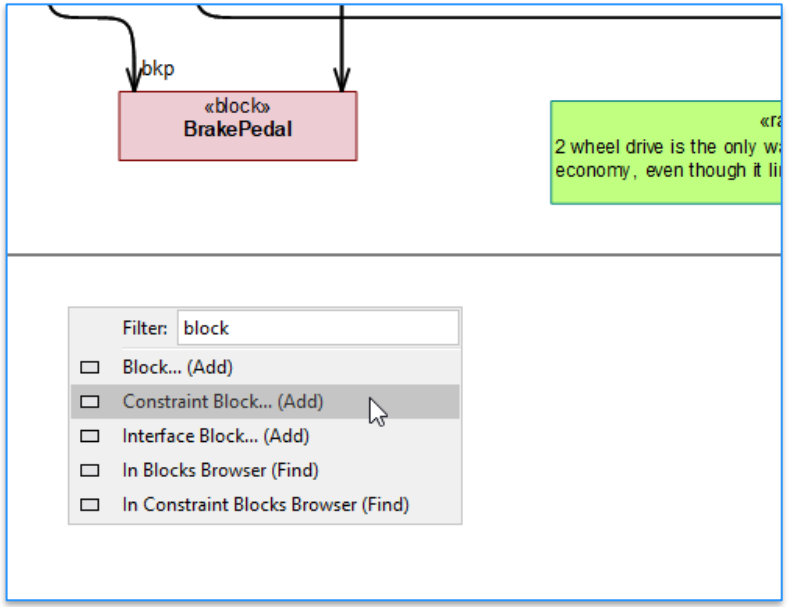
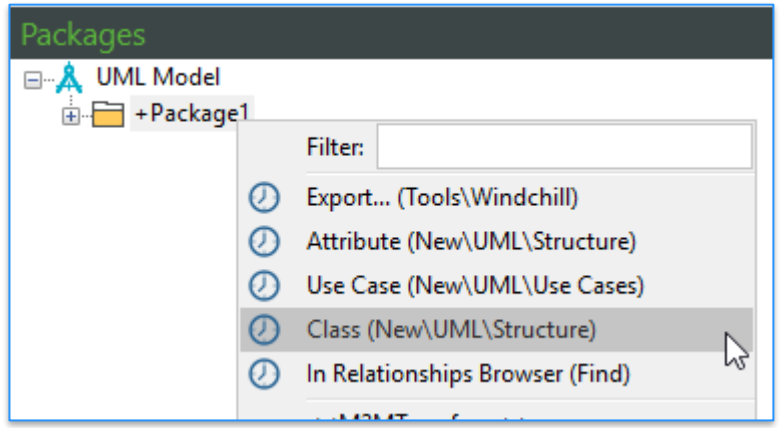


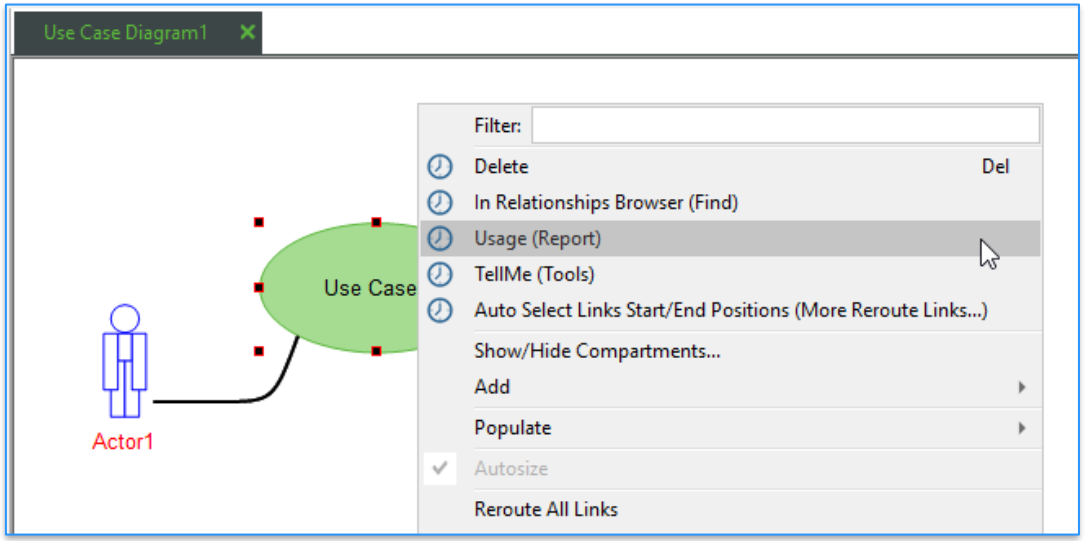
Diagram context menu filtered using text "block"

FREQUENTLY USED FUNCTIONS

- Functions that have been used frequently are now pinned to the top of the context menu
  - This ensures the functions you use most often are easily accessible
  - 5 most used functions within that context are listed
  - Displayed on all context menus (e.g. on diagrams)
  - Frequent functions are recorded per model

Frequently used functions in Packages browser



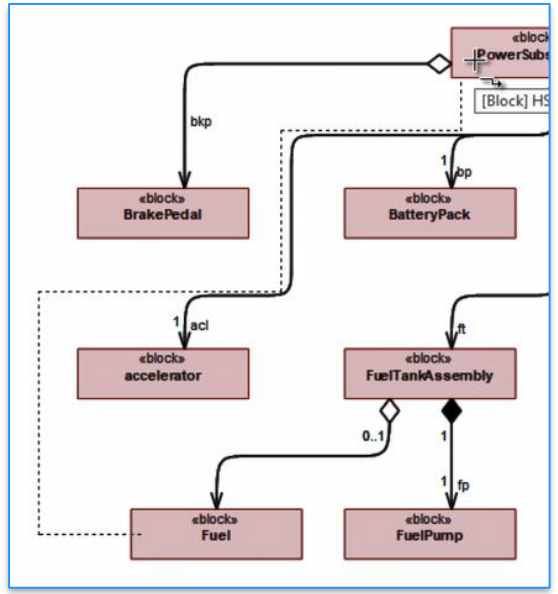


Frequently used functions on Diagrams

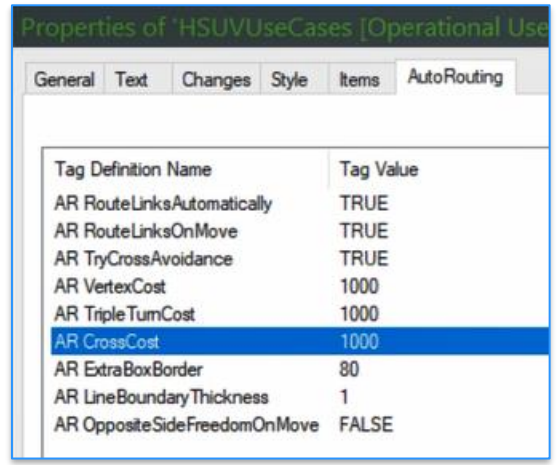
AUTO-ROUTING OPTIMIZATION

- Link auto-routing has been optimized to improve routing results and provide the user with more control
  - Fewer lines crossing other lines or other symbols
  - More direct auto-routing
    - Use ALT to disable auto-routing
  - Automatically re-route links when a symbol is resized
    - Including when compartment settings change
  - Retain manual waypoints
  - Auto-routing Profile
    - Control priorities of routing algorithm
    - Disable auto-routing for specific diagrams, or diagram types

Auto-routing avoiding crossed lines



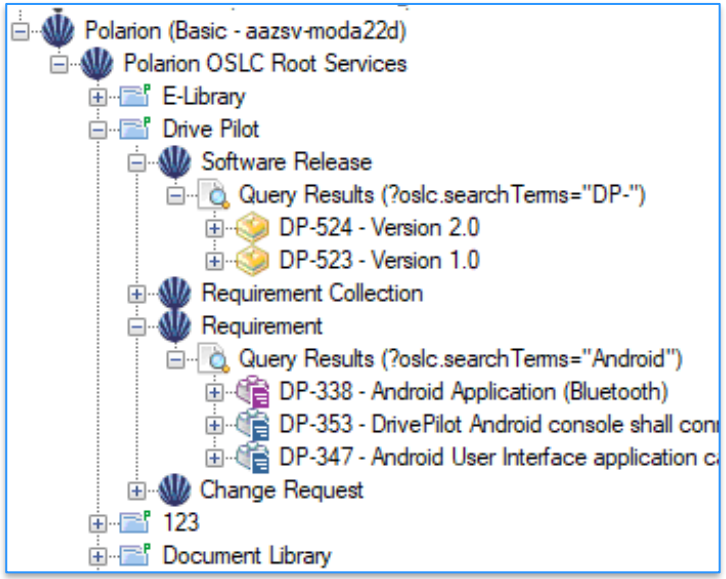
Auto-routing Profile



POLARION OSLC CLIENT

- Windchill Modeler 9.5 provides design traceability with Siemens Polarion
  - Capture and manage digital product traceability from system models to requirements
- Standard OSLC client functions allow you to:
  - Search for remote requirements in Polarion
  - View preview pages
  - Use drag-and-drop to create OSLC Links and Surrogates, pointing to the relevant requirements
  - Navigate from Modeler to linked requirements in Polarion
  - Manage changes with OSLC link suspecting

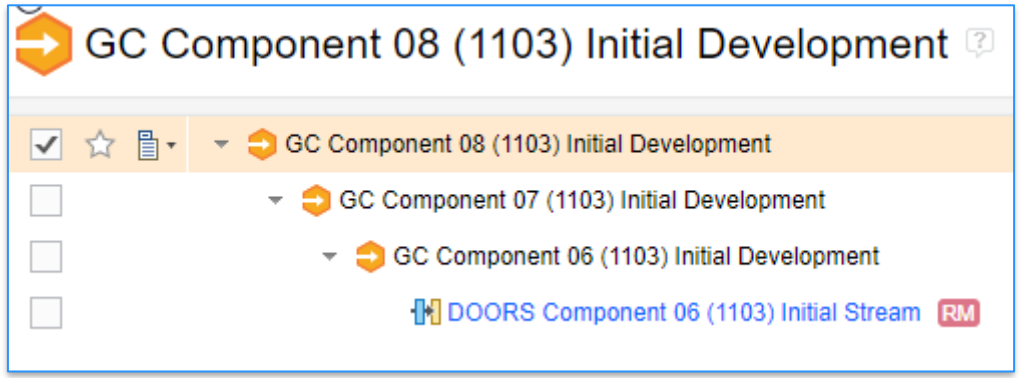
OSLC Client for Polarion

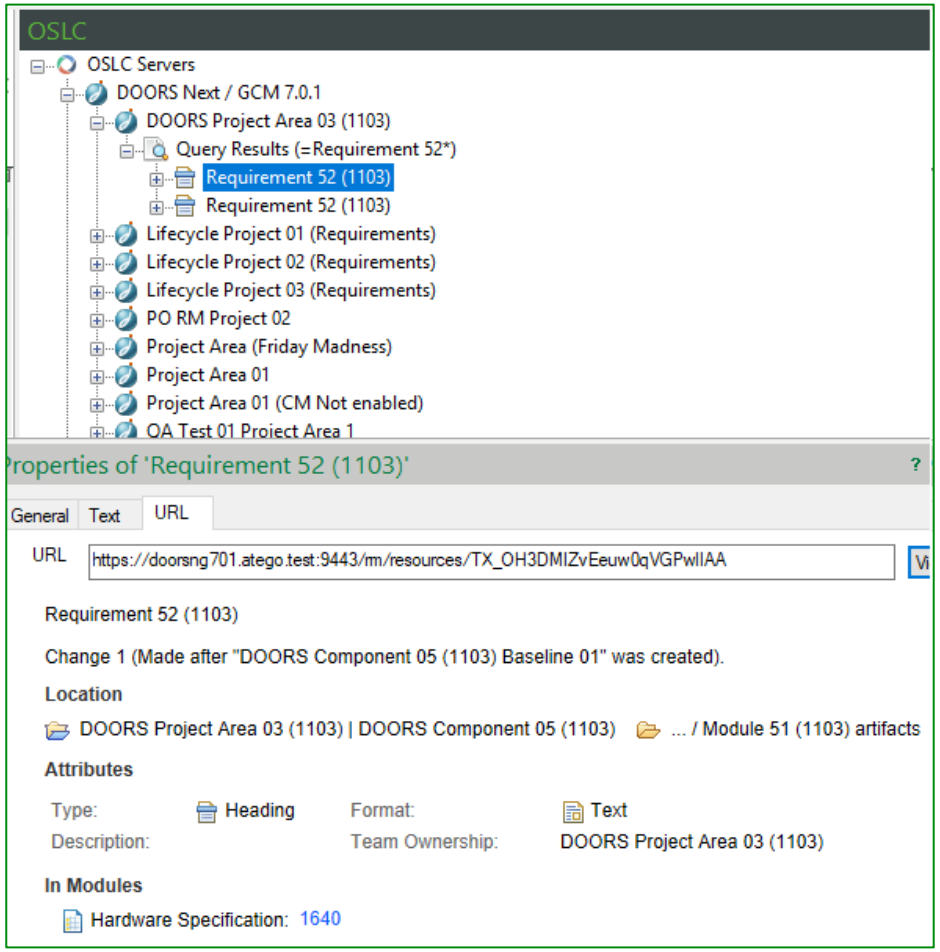


Note: Requires Polarion 22 R1

OSLC INTEGRATION WITH DOORS NEXT

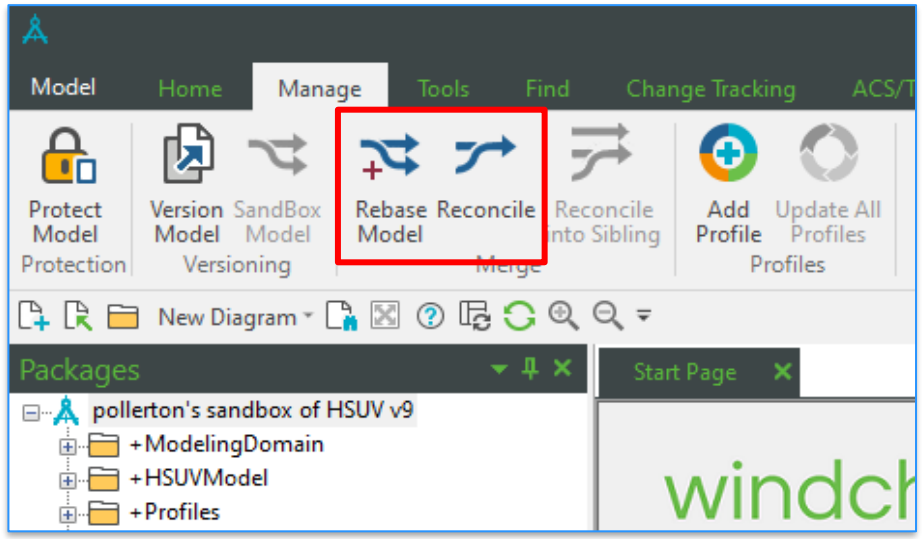
- OSLC client for DOORS Next can now work with nested global configurations





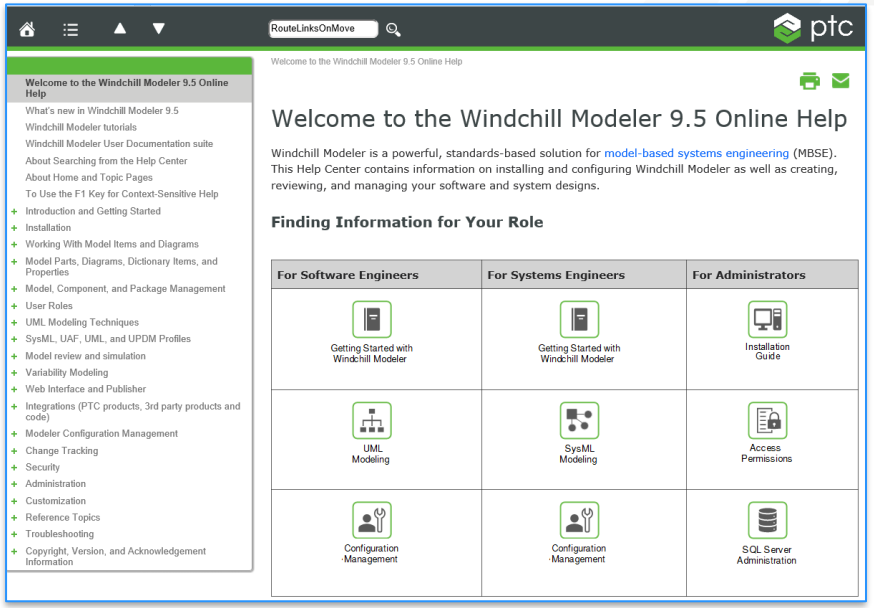
PERFORMANCE

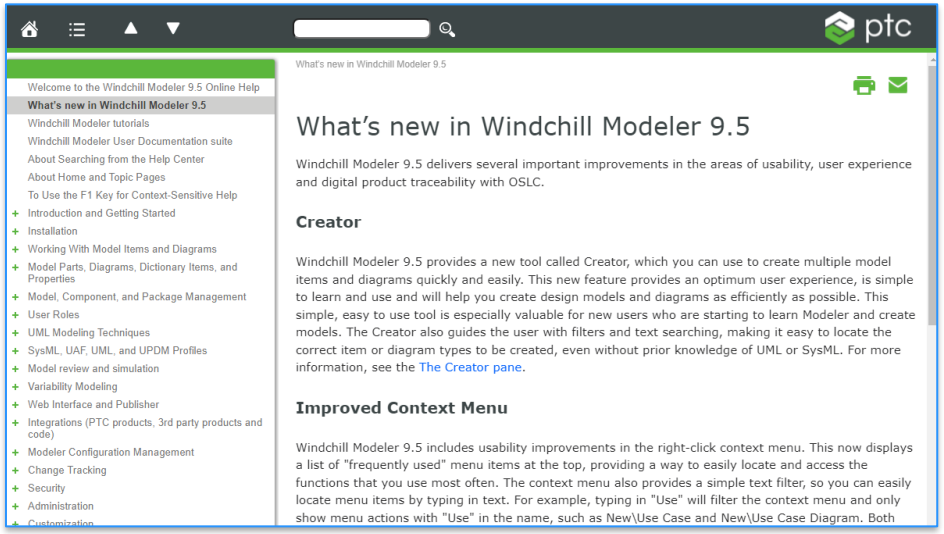
- Improved performance for reconcile and rebase with large models

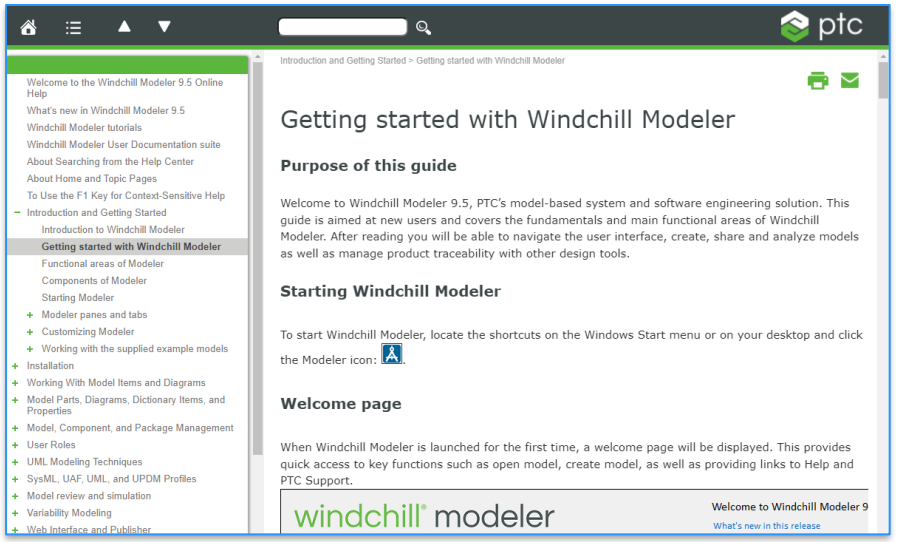


USER HELP

- Role-based Welcome page helps to guide new users
- Updated Getting Started Guide

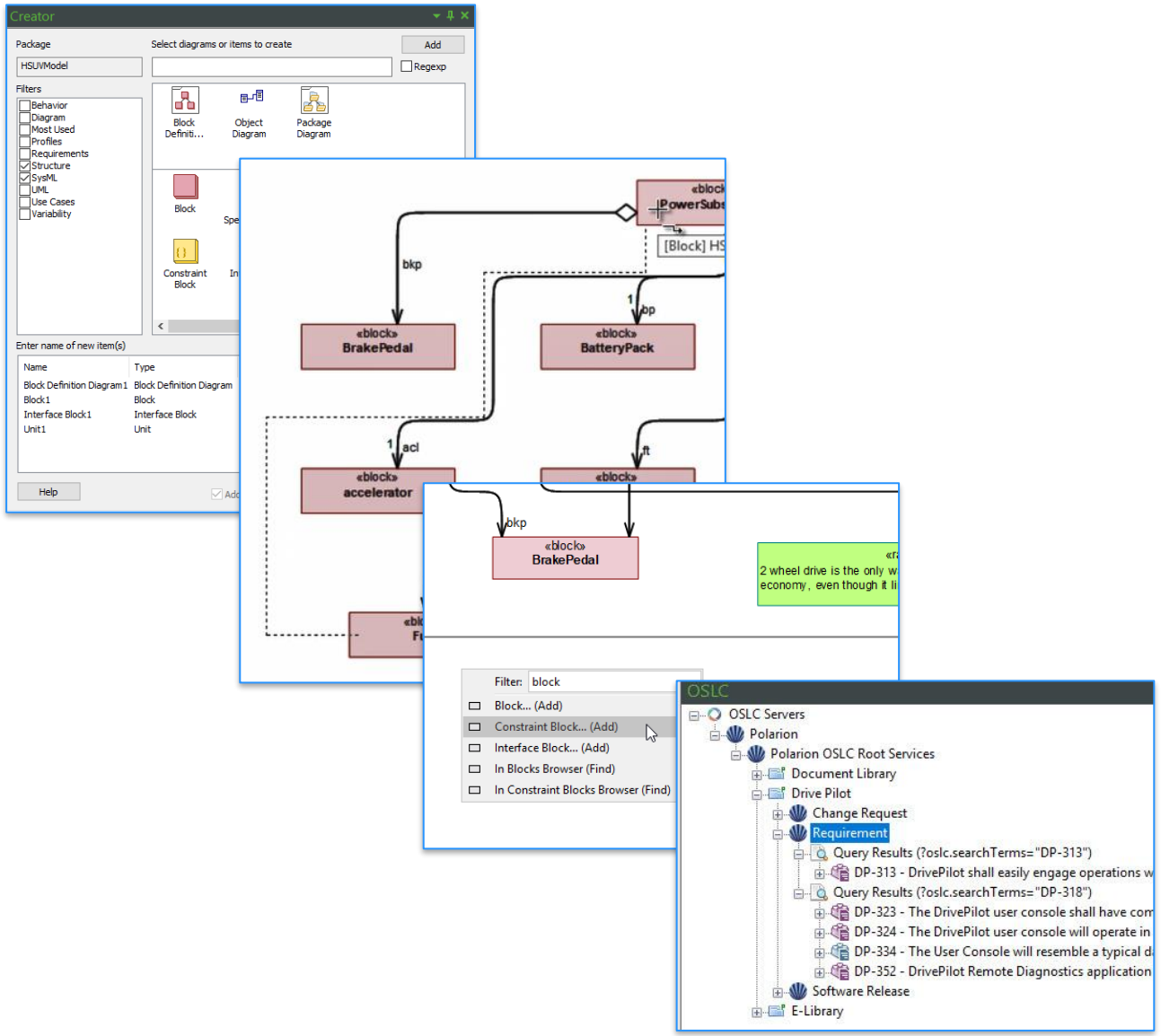






SUMMARY

- Windchill Modeler 9.5 delivers important improvements to:
  - Usability
  - OSLC Client for Polarion
  - OSLC Integration with DOORS Next
  - Performance
  - Help



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THANK YOU

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