INTEGRITY MODELER 8.5 WHAT'S NEW



January 2018

AGENDA

- 1. Unified Architecture Framework (UAF) Profile
- 2. Variability
- 3. OSLC Integrations
- 4. Usability



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UNIFIED ARCHITECTURE FRAMEWORK (UAF) PROFILE



- The UAF Profile delivered with Integrity Modeler
 8.5 enables you to define standardized architecture models
- Applicable to any type of organization
- UAF is the next version of the OMG's UPDM



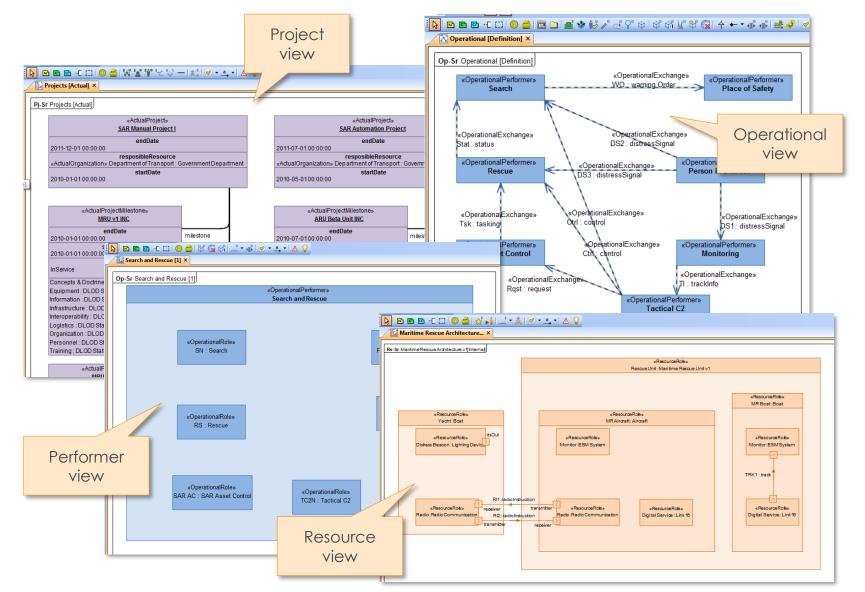
		Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr		Interaction Scenarios Is	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr
	Metadata Md	Metadata Taxonomy Md-Tx	Architecture Viewpoints ^a Md-Sr	Metadata Connectivity Md-Cn	Metadata Processes ^a Md-Pr					Metadata Constraints ^a Md-Ct		Metadata Traceability Md-Tr
	Strategic St	Strategic Taxonomy St-Tx	Strategic Structure St-Sr	Strategic Connectivity St-Cn		Strategic States St-St				Strategic Constraints St-Ct	Strategic Deployment, St-Rm Strategic Phasing St-Rm	Strategic Traceability St-Tr
	Operational Op	Operational Taxonomy Op-Tx	Operational Structure Op-Sr	Operational Connectivity Op-Cn	Operational Processes Op-Pr	Operational States Op-St	Operational Interaction Scenarios Op-Is			Operational Constraints Op-Ct		-
ews	Services Sv	Service Taxonomy Sv-Tx	Service Structure Sv-Sr	Service Connectivity Sv-Cn	Service Processes Sv-Pr	Service States Sv-St	Service Interaction Scenarios Sv-Is	Conceptual Data Model,	Environment Pm-En	Service Constraints Sv-Ct	Service Roadmap Sv-Rm	Service Traceability Sv-Tr
	Personnel Pr	Personnel Taxonomy Pr-Tx	Personnel Structure Pr-Sr	Personnel Connectivity Pr-Cn	Personnel Processes Pr-Pr	Personnel States Pr-St	Personnel Interaction Scenarios Pr-Is	Logical Data Model,		Competence, Drivers, Performance Pr-Ct	Personnel Availability, Personnel Evolution, Personnel Forecast Pr-Rm	Personnel Traceability Pr-Tr
	Resources Rs	Resource Taxonomy Rs-Tx	Resource Structure Rs-Sr	Resource Connectivity Rs-Cn	Resource Processes Rs-Pr	Resource States Rs-St	Resource Interaction Scenarios Rs-Is	Physical schema, real world results	Measurements Pm-Me	Resource Constraints Rs-Ct	Resource evolution, Resource forecast Rs-Rm	Resource Traceability Rs-Tr
	Security Sc	Security Taxonomy Sc-Tx	Security Structure Sc-Sr	Security Connectivity Sc-Cn	Security Processes Sc-Pr					Security Constraints Sc-Ct		
-	Projects Pj	Project Taxonomy Pj-Tx	Project Structure Pj-Sr	Project Connectivity Pj-Cn	Project Activity PJ-Pr						Project Roadmap Pj-Rm	Project Traceability Pj-Tr
D	Standards Sd	Standard Taxonomy Sd-Tx	Standards Structure Sd-Sr	-							Standards Roadmap Sr-Rm	Standards Traceability Sr-Tr
IRE RK m	Actuals Resources Ar		Actual Resources Structure, Ar-Sr	Actual Resources Connectivity, Ar-Cn		Simulation ^b				Parametric Execution/ Evaluation ^b		
	Dictionary * Dc											
	Summary & Overview SmOv											
						Req	uirements Rq					

Architecture representations

UNIFIED ARCHITECTURE FRAMEWORK (UAF) PROFILE



- Using UAF you can specify, analyze and verify architecture models
- UAF encompasses hardware, software, data, personnel and facilities elements
- Enables design of complex systems and systems-ofsystems (SoS)



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- 1. Unified Architecture Framework (UAF) Profile
- 2. Variability
- 3. OSLC Integrations
- 4. Usability



VARIABILITY

- Integrity Modeler 8.5 allows you to specify the order in which Variation Points and Variants are displayed in the Variant Selector
- Viewing, selecting and managing variability items is now more flexible and efficient

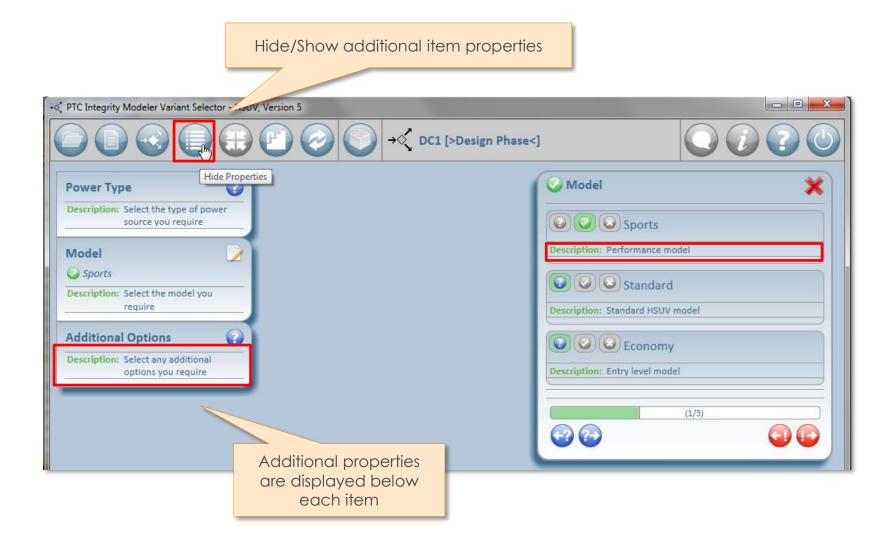
Properties of 'Additional Options'		
General Text Options Changes S	Style Validation Scrip	Use the Index property to specify the display order of
Mandatory In	dex 2	Variation Points and Variants
V External		

• PTC Integrity Modeler Variant S	elector - HSUV, Version 5		
	->	DC1 [>Design Phase<]	
Power Type		O Model	*
Model		Sports	
Additional Options	0	Standard	
	N	CONTRACTOR CONTRA	
	Variation Points and Variants displayed in the desired order		

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VARIABILITY

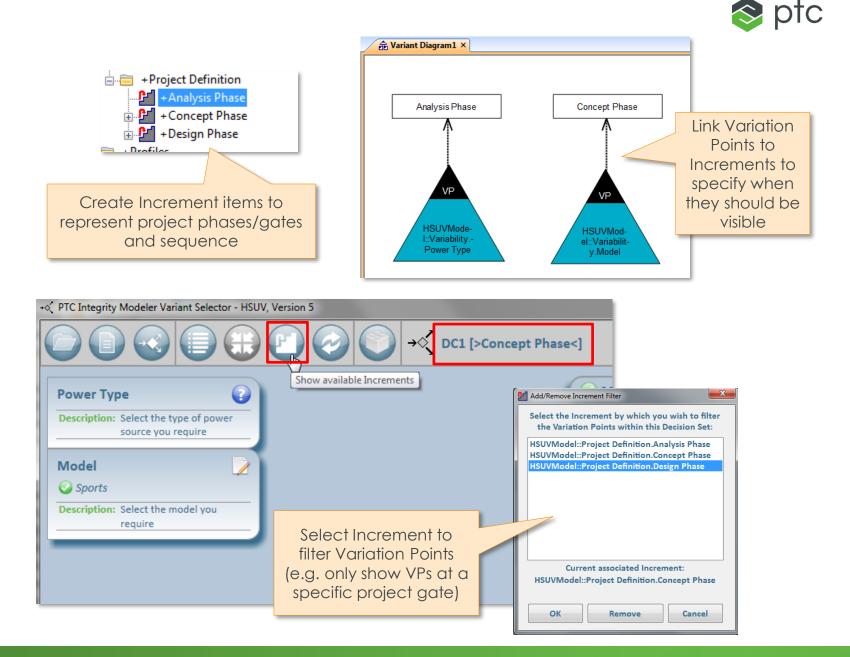




- Additional properties for Variation Points and Variants are now visible in the Variant Selector
- This ensures you can see all relevant design information
 - Easily show/hide additional attributes
 - The properties that are displayed can be easily modified by editing a configuration file

VARIABILITY

- You can now filter Variation Points in the Variant Selector based on their development maturity
- This ensures that the appropriate Variation Points are visible at each phase of development
- Variation Point maturity is determined by associations with Increment items



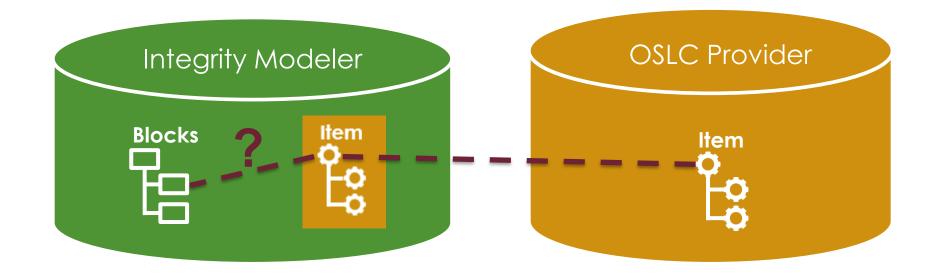
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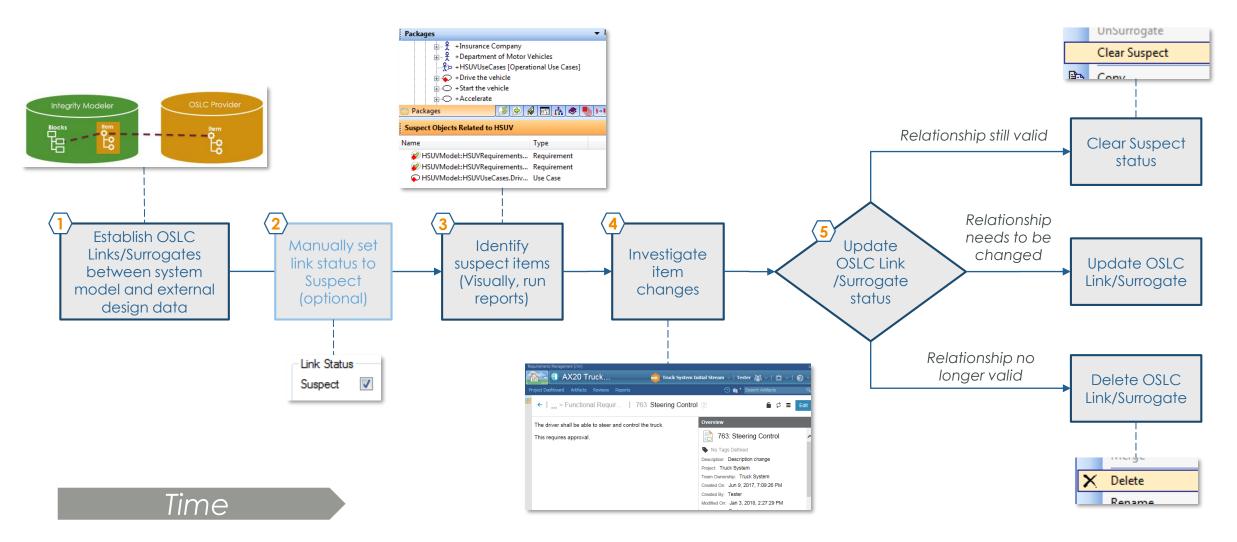


- OSLC Consumer Suspecting
 - Integrity Modeler 8.5 provides suspecting of OSLC Links and Surrogates, which ensures that you are aware when remote data is modified
 - Manual and automatic time-based suspecting are available, providing flexibility for a wide range of development processes
 - Suspecting in Integrity Modeler is consistent with the suspecting features in ThingWorx Trace Management (SE-PE)

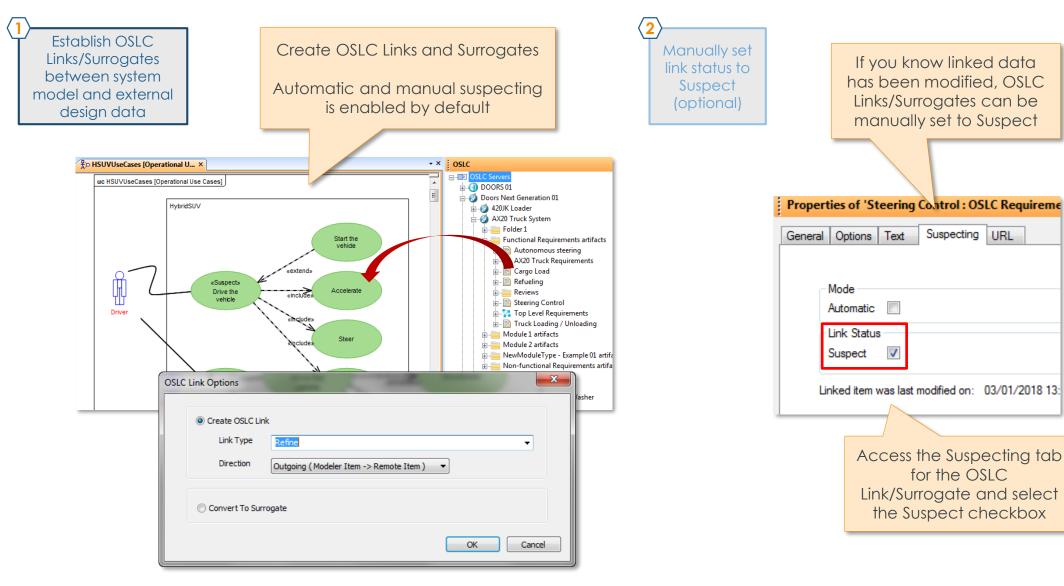


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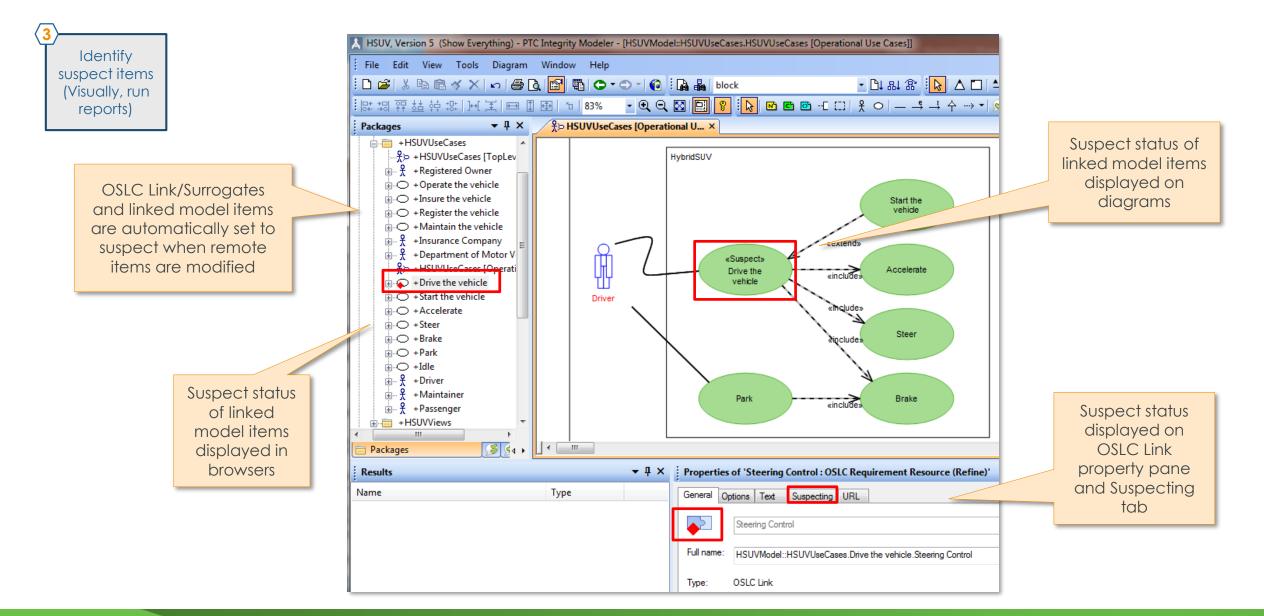
Using suspecting to maintain traceability relationships











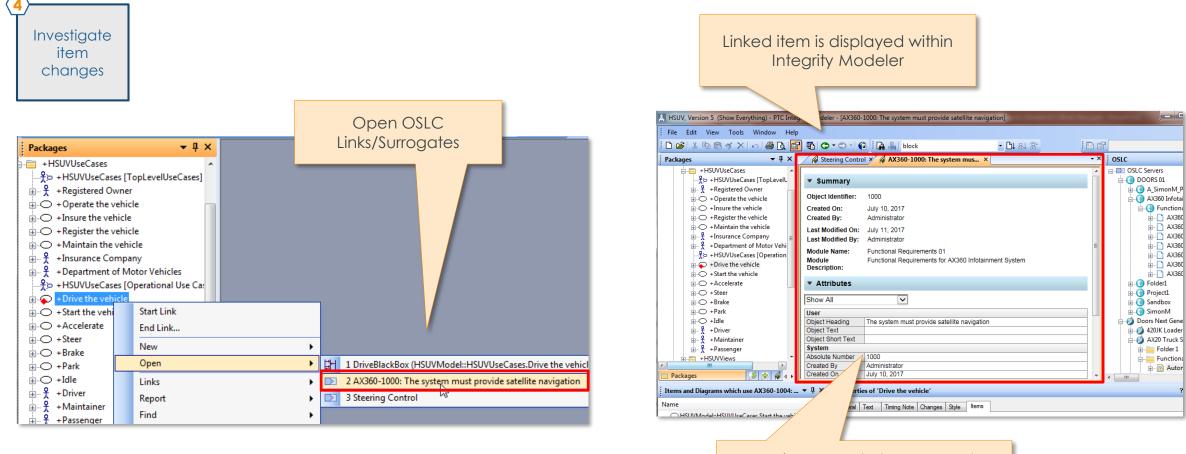


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3 Identify suspect items (Visually, run reports)

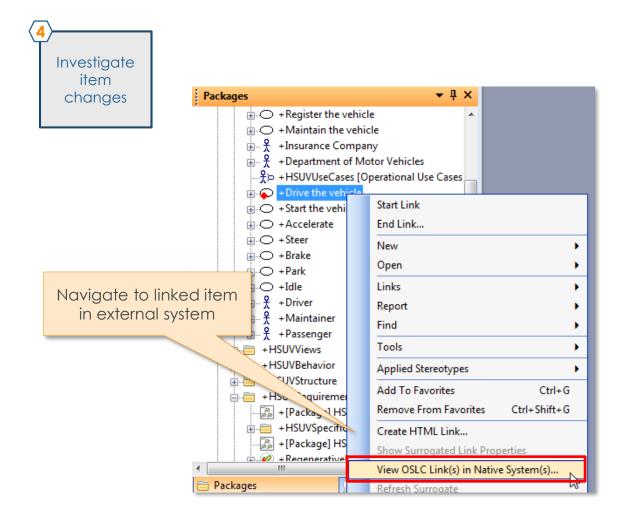
Packages ⊡ ▲ HSU'	<u>≁</u> † ×		Run a report to list all suspect items in a package or the					
	Reinitialize Profile Helper		entire model					
	Start Link	_		-				
- - -	End Link	/						
	Options •							
	Repair •			C				
	Report •				ect items listed			
E	New 🕨			IN R	in Results pane			
Ē	Links							
	Tools •			Suspect Objects Related to HSUV				
	Find	In Blocks Browser	· · · · ·					
E	Add To Favorites Ctrl+G	In Ports and Flows Browser	N	lame	Туре			
	Remove From Favorites Ctrl+Shift+G	In Constraint Blocks Browser		HSUVModel::HSUVRequirements::Re Requirement				
	Refresh OSLC Links	In Requirements Browser		HSUVModel::HSUVRequirements::Po Requirement SUVModel::HSUVRequirements::Po Requirement SUVModel::HSUVUseCases.Drive th Use Case				
E	Create HTML Link	In Requirements (Extensions)	Browser		s.Drive tri Ose case			
E	Show Surrogated Link Properties	In Package Browser						
<	View OSLC Link(s) in Native System(s)	In Part Browser		👔 🎊 Results 🔹 🕅	★ 🕅 🕀			
📄 Package	Refresh Surrogate	In Relationships Browser						
1	UnSurrogate	Suspect Objects						
Name	Clear Suspect	All Model Stubs	-					
	Package Import/Export	Unused Stubs						

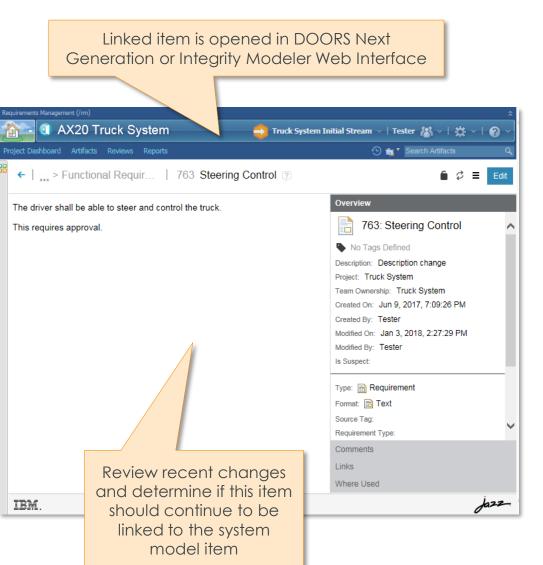




Review recent changes and determine if this item should continue to be linked to the system model item









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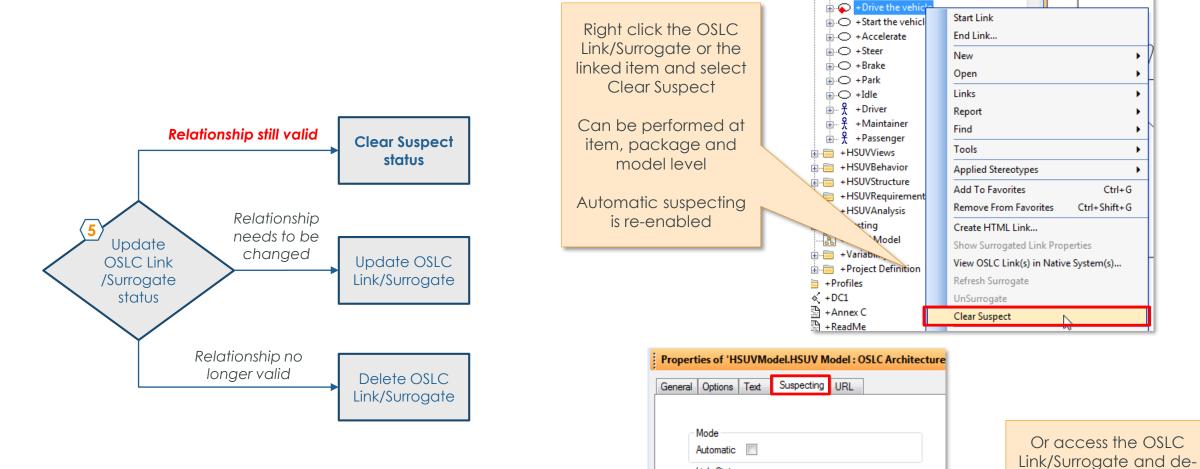
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Ctrl+G

Ctrl+Shift+G



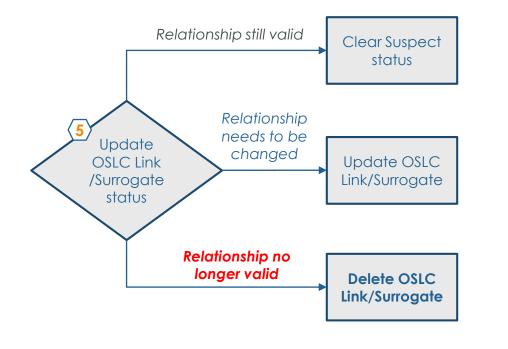
Link Status

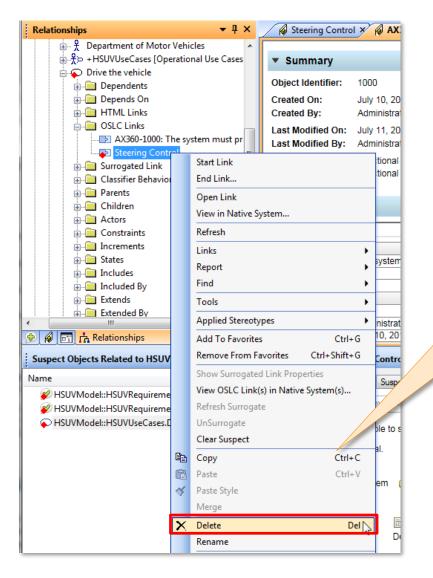
Linked item was last modified on: 21/10/2013 20:26:15 Last time link status was cleared: 21/10/2013 20:26:15

Suspect

select the Suspect checkbox

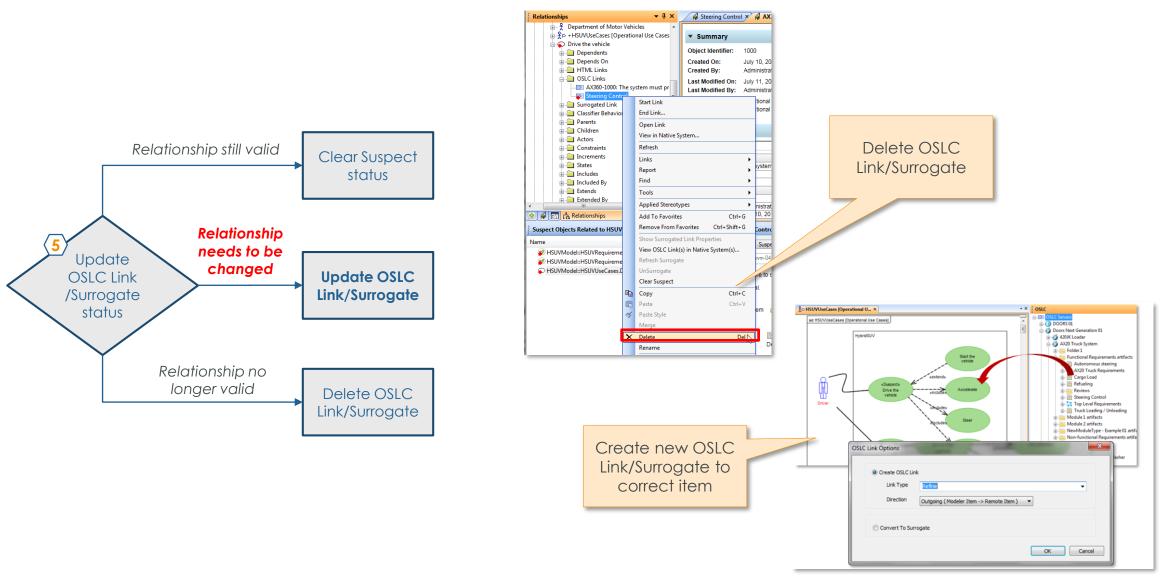






Right-click the OSLC Link/Surrogate in the Relationships browser and select Delete

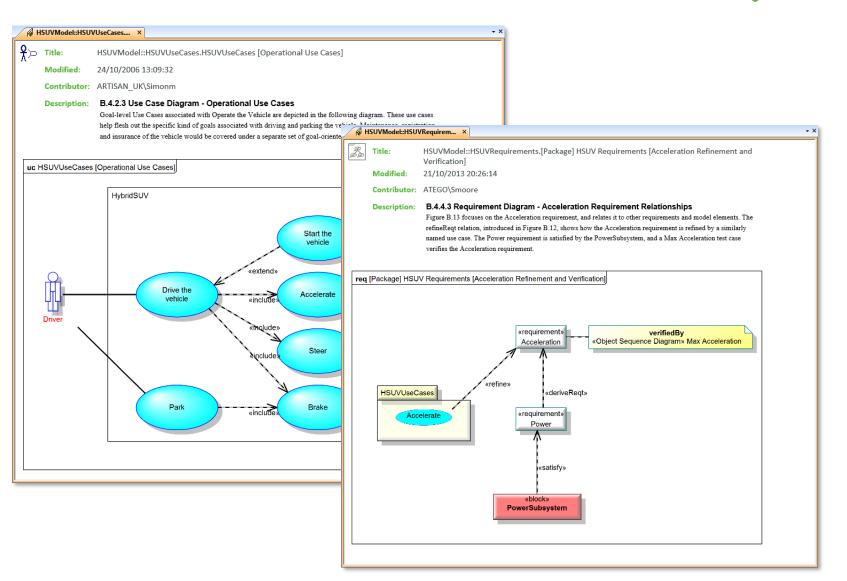




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 OSLC Provider

 Integrity Modeler diagram images are now displayed in delegated user interfaces

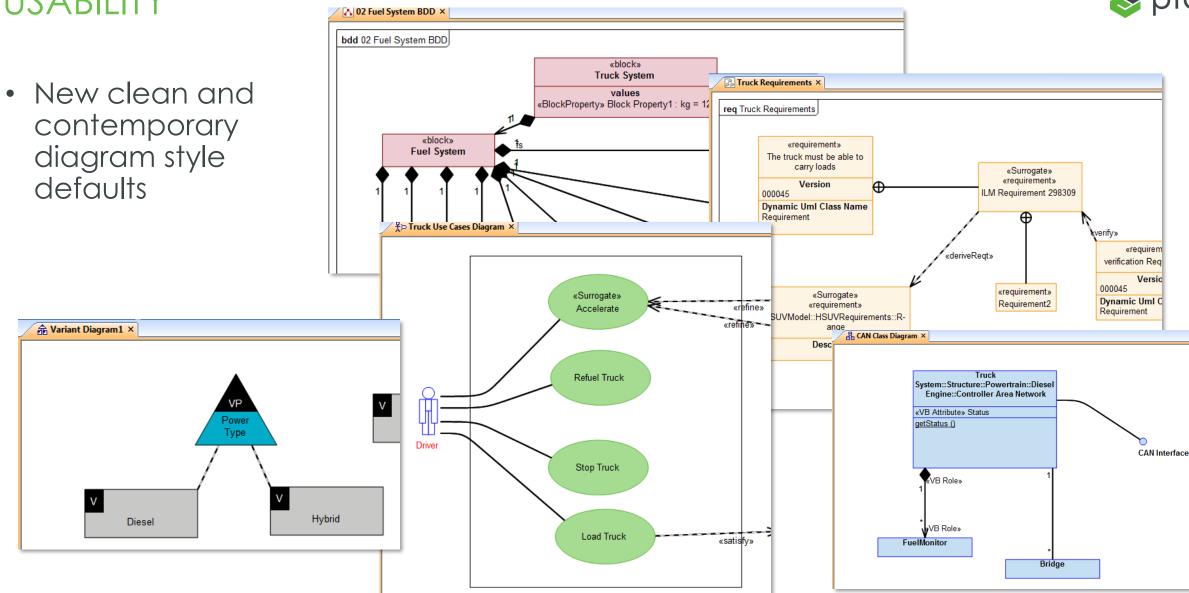


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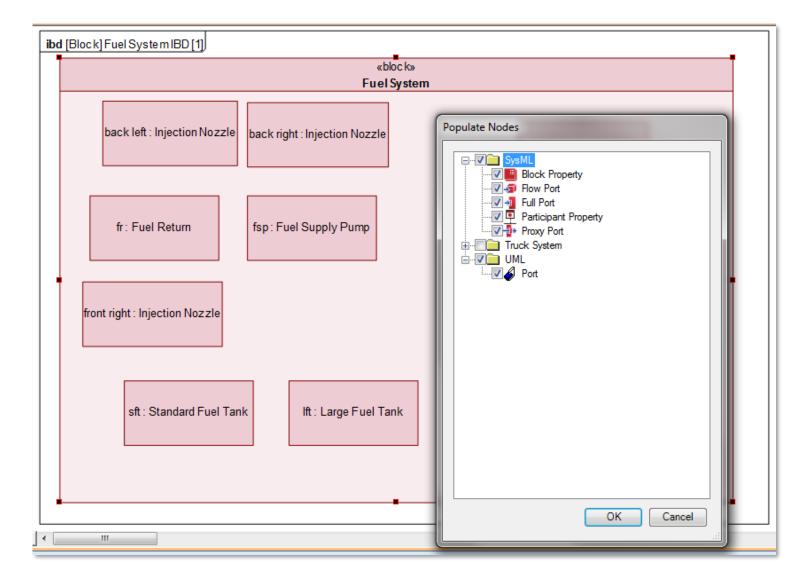
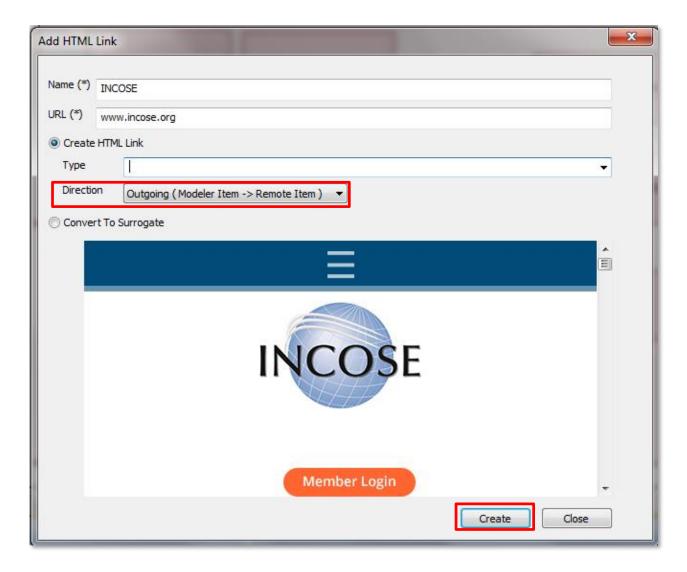


Diagram population, including for multiple item types, is now easier and more efficient

- Creating multiple HTML Links is now more efficient
- Link direction for HTML and OSLC Links is now more logical and easy to understand
- You can now open HTML Links in an external web browser



S (D)



🔣 HSUV, Version 5 (Show Everything) - PTC Integrity Modeler - [file:///D:/Users/pollerton/AppData/Local/Temp/2b8bbb0a-e82a-4e50-8cd0-4453af835048.html]								
File Edit View Tools Window Help								
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HSUV HSUV HSUVBcdel HSUVUscCases HSUVUscCases HSUVVescWs HSUVBehavior HSUVBehavior HSUVBehavior HSUVStructure HSUVFecture	[Package] Type: Requirement Ta Description:	E	□ DOSLC Servers ⊕ ① DOORS 01 ⊕ ② Doors Next Generation 01 ⊕ ☑ □ Magnity Modeler 01					
+ HSOVRequirements 	Name	txt	satisfiedBy	derived				
HEJUVSpecification Jeackage] H5UV Requirements [Requirem & PregenerativeBraking & -Reanset	Acceleration	The Hybrid SUV shall have the acceleration of a typical SUV.		«Requirement» <u>Power</u> (<u>HSUVModel::HSUVRequirements)</u>	_			
⊕ Power ⊕ Power ⊕ PowerSurceManagement ↓ □ Package] HSUV Requirements [Accelerati □ □ □ +[Dackage] HSUVRequirements [Relationsh □ □ + HSUVAnalysis	Braking	The Hybrid SUV shall have the braking capability of a typical SUV.		«Requirement» <u>RegenerativeBraking</u> (<u>HSUVModel::HSUVRequirements)</u>				
	Capacity	The System shall do						
	CargoCapacity	The System shall do		«Requirement» <u>Power</u> (<u>HSUVModel::HSUVRequirements)</u>				
	Eco-Friendliness	The System shall do						
- C + Annex C - C + ReadMe	Emissions	The vehicle shall meet Ultra-Low Emissions Vehicle standards.	«Block Property» <u>TestVehicle1</u> (HSUVModel::Testing::SUV_EPA_Fuel_Economy_Test)	1				
	Ergonomics	The System shall do						
	FuelCapacity	The System shall do		«Requirement» <u>Range</u> (HSUVModel::HSUVRequirements)				
< ,	FuelEconomy	The Hybrid SUV shall have dramatically better fuel economy than a typical SUV.		«Requirement» <u>PowerSourceManagement</u> (HSUVModel:HSUVRequirements) «Requirement» <u>Range</u> (HSUVModel:HSUVRequirements) «Requirement» <u>RegenerativeBraking</u> (HSUVModel:HSUVRequirements)				
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Results Results								
Name Type			al Text Changes Style Items Requirement Table					
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Done						NUM		

- Table/Matrix diagrams are now displayed in the Integrity Modeler diagram pane
- Table/Matrix diagrams also show the diagram type and description



- The Default user role has been replaced by a new role called "Show Everything"
- This role can be deleted, thereby ensuring users select an appropriate user role for their job function

