AGL DOORS Next Generation (NG) Training

February 25, 2015

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Agenda

- Introduction to DOORS NG

- Navigating DOORS NG

- DOORS NG Controls

- Create and Editing Artifacts (Requirements)

- Linking Artifacts (Tracing)

- Printing a Document via Reports

- Documents Reviews

- Artifact Comments

Introduction to DOORS NG

DOORS Next Generation (NG)

- DOORS NG is very different from DOORS 9.x
- DOORS NG:
  - has better collaboration capabilities than DOORS 9.x
  - has a better concept of sharing unique requirements, use cases, etc. (artifacts) between systems/projects
- uses JavaScript rather than DOORS eXtension Language (DXL) for customization
- However:
  - Numerous DOORS 9.x features are currently not supported in DOORS NG

Concept Mapping for DOORS Users

DOORS 9.x	DOORS NG
Database	Project Area
Projects/Folders	Folders
Modules	Virtual Modules / Folders
Objects	Artifacts
	Artifact Types (Global) **NEW**
Attributes	Artifact Attributes (Global)
Attribute Types	Attribute Data Types (Global)
Views (Public, Private)	Views (Public, Private, Global)
Filters	Filters (Global)
Suspicious Links	Suspicion Profiles (Global)
OLEs	Embedded Graphics (bmp, png, etc)
Link Modules	Relationship Types (Link Types)
LinkSets	Preferred Relationships
Access Rights	Roles & Permissions
DXL	JavaScript (4.0.6)

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Artifacts are the key concept in DOORS NG

New for DOORS NG Users

DOORS 9.x	DOORS NG
	Collections (Personal/Release)
	Tags
	Templates (more formal)
With an add-ons	Use Cases, UML, Storyboards

DOORS NG Artifacts

- *Artifact* is a general term for an object in a repository.
  - Can manage artifacts in projects and folders
  - Can use tags to filter groups of artifacts for a specific purpose.
  - Artifacts can be of various types, which have customizable attributes and data types.
- *Artifact* consists of
  - Content
  - Attributes (dependent on Attribute Type)
- *Artifact Types* mainly used in AGL
  - Heading
  - Information
  - AGL Requirement Type (derived from System Requirement)

DOORS NG Artifacts

- Heading
  - Works like a standard word processor heading
  - Content is the Heading Name
  - Numbering is determined by DOORS NG
- Information
  - These sections are informational and do not contain requirements.
  - No attributes other than Status (see next slide)

AGL Requirement Type Attributes

Attribute	Data Type	Possible Values
Requirement Title	String	
Function	Function	HMI Layer App Framework Layer Automotive Middleware OSS Layer Kernel/Driver Non-Functional Requirements
SR ID	String	
Owner	User	
Status	Enum	Draft Under Review Approved Rejected Deprecated
Priority	Enum	P1 – Mandatory P2 – Optional P3 - Information

Mapping From Current Spec (0.82)

ID	Name	Category	Priority
WRT.1	Lifecycle	App Framework	P1
Description (function)			
AGL system Web Runtime shall provide full web application lifecycle management (e.g., installation/removal).			
Description (others)			
N/A			
References			
R-WRT.1			

Spec Field	DOORS NG Attribute	DOORS NG Value
ID	SR ID	WRT.1
Name	Requirement Title	Lifecycle
Category	Function	App Framework Layer
Priority	Priority	P1-Mandatory
Description (function)	Content	AGL system Web Runtime shall provide full web application lifecycle management (e.g., installation/removal).
Description (others)	Content	N/A
References	Link To	Link to the corresponding artifact in the Design folder

AGL Project Schema

Dropbox
- 0.82 Spec
- Use Case Candidates
- Requirements Candidates

Requirements
- AGL Specification
- Subsystem Requirements

Design
- API Specifications
- Subsystem Design

Use Cases
- AGL Use Cases

Features
- Feature List

Navigating DOORS NG

AGL DOORS NG

- Can be found at https://doors.automotivelinux.org/
- Use AGL account and request access to project
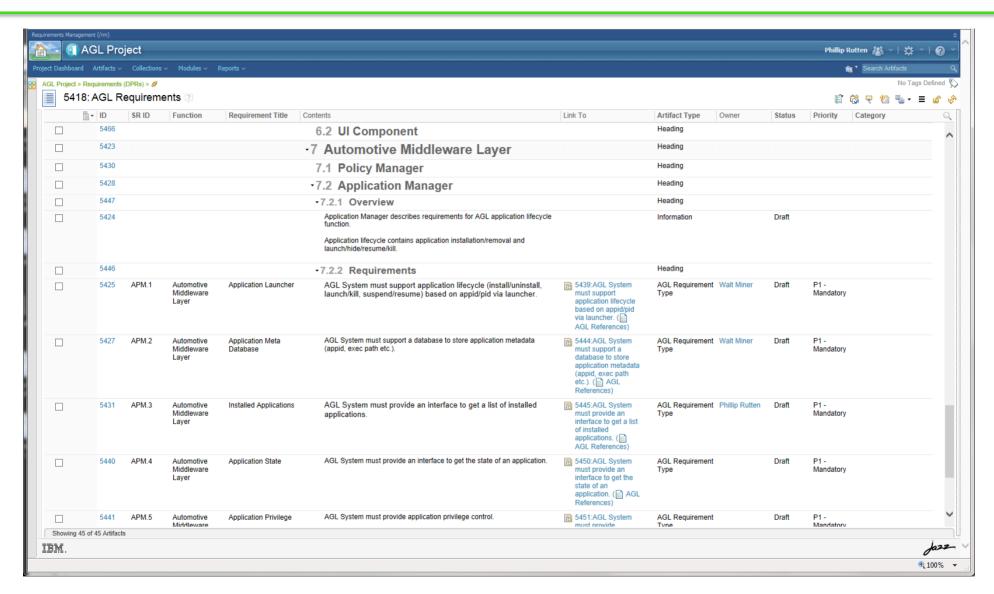
AGL DOORS NG

AGL Project Dashboard

AGL Project Artifacts Page

AGL Requirements Module - Default View

AGL Spec View – Public

DOORS NG Controls

Getting Help in DOORS NG

Controls – 3 Panes

Controls – Resize Panes

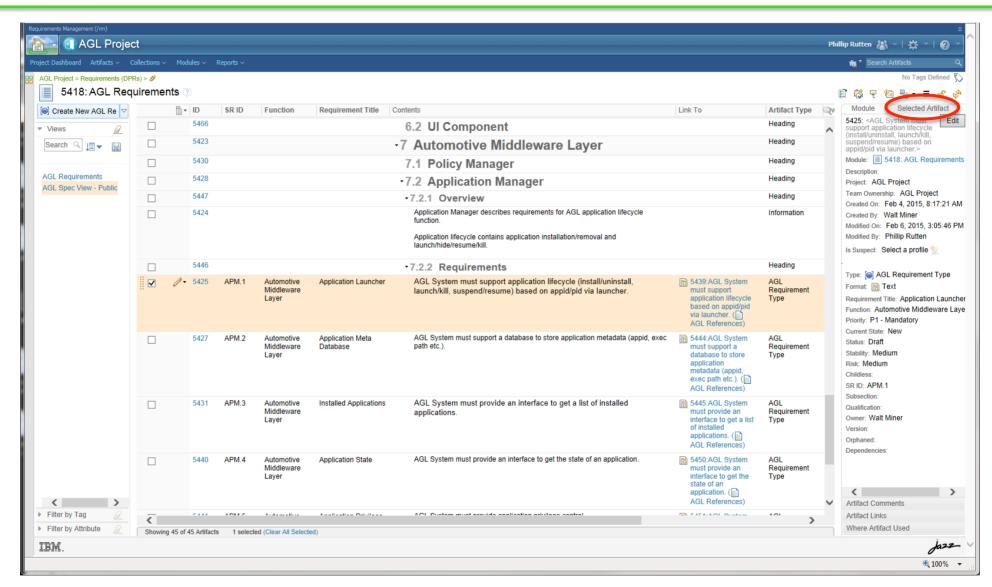# Controls – Configuration Settings

Controls - Select
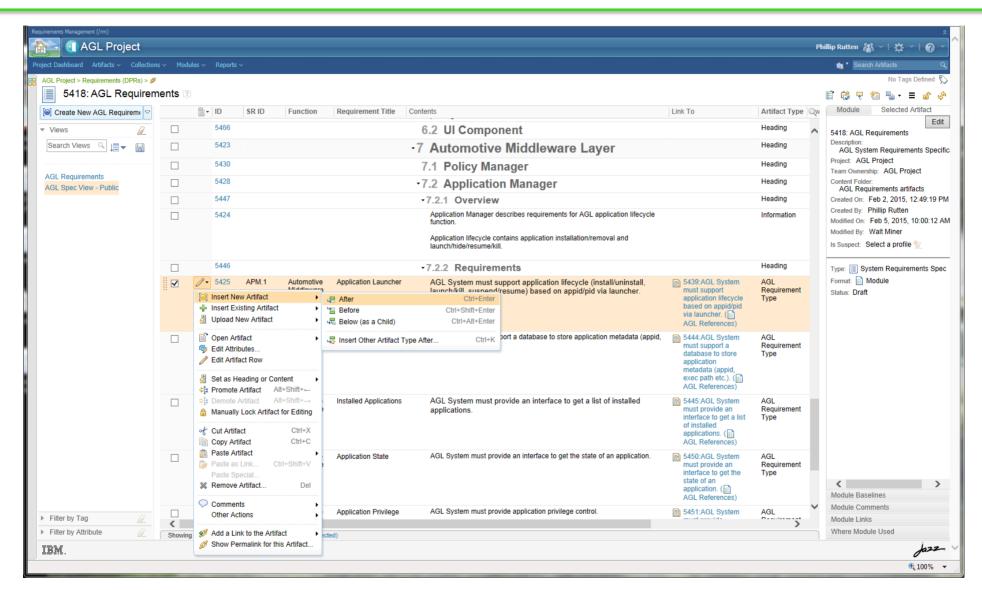
Controls - Module

Controls – Selected Artifact
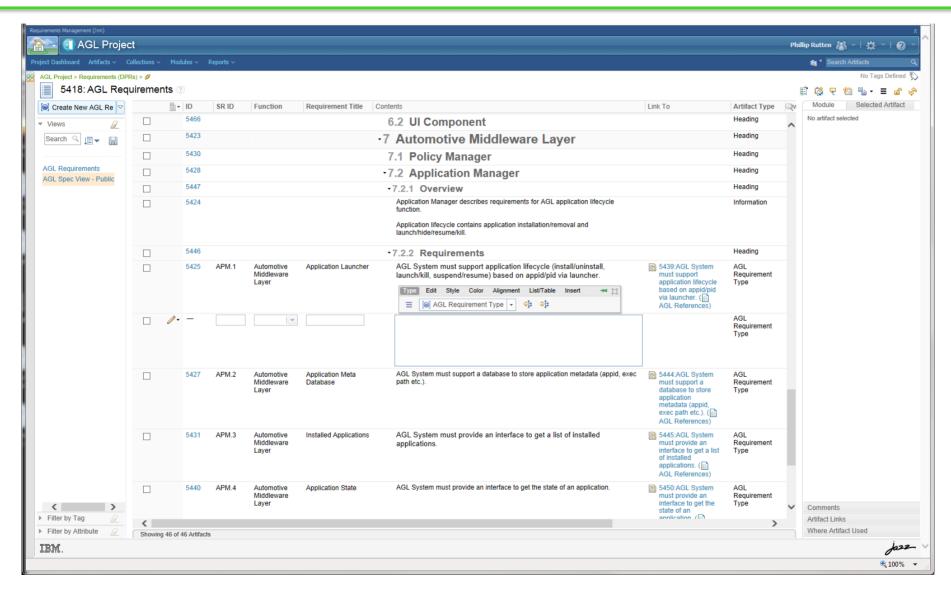
Creating and Editing Artifacts
(Requirements)
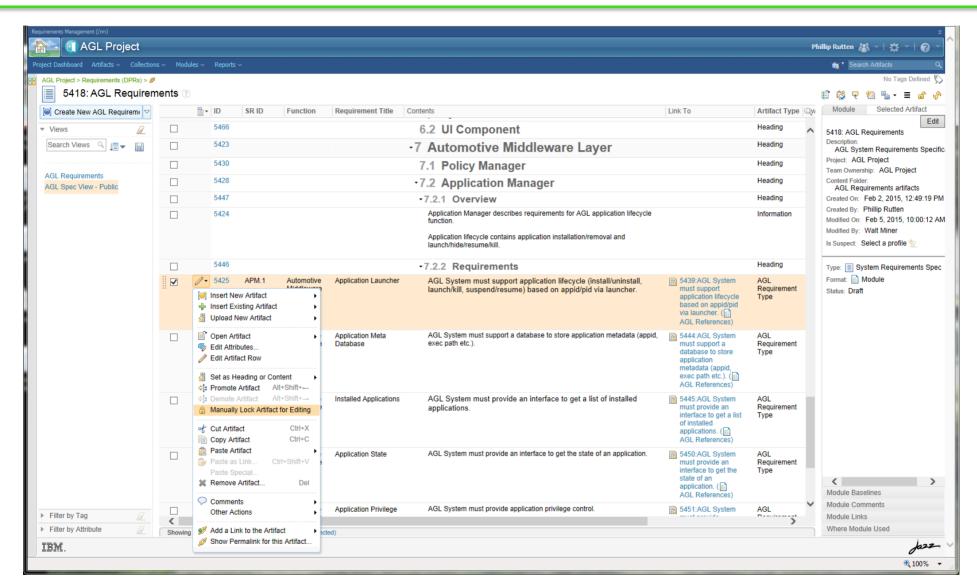
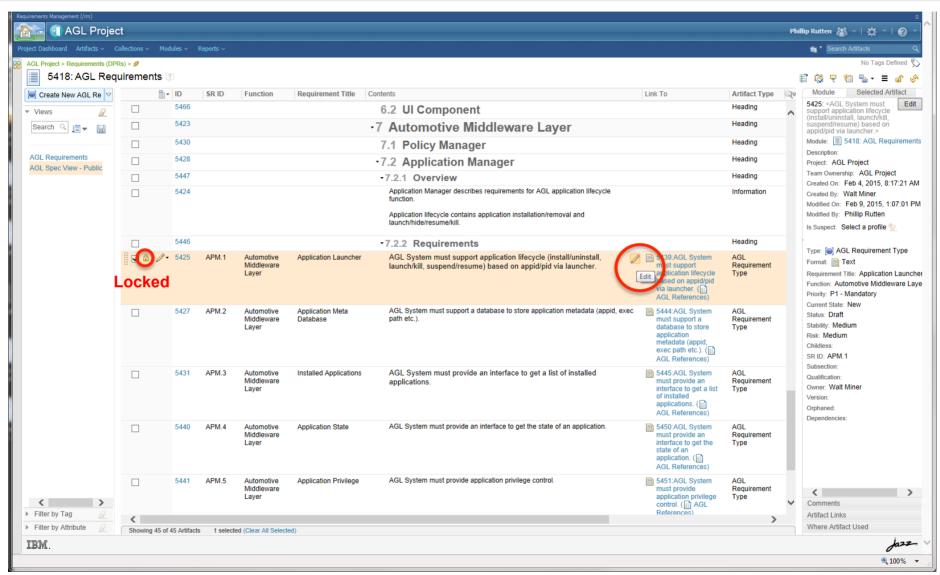# Create/Insert New Artifact (Requirement)

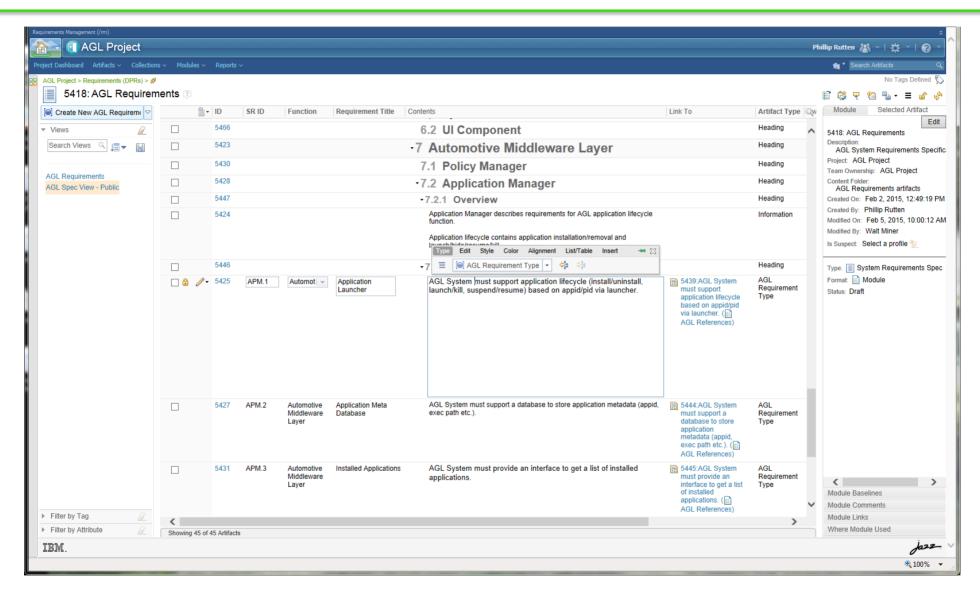# Create New Artifact (Requirement)

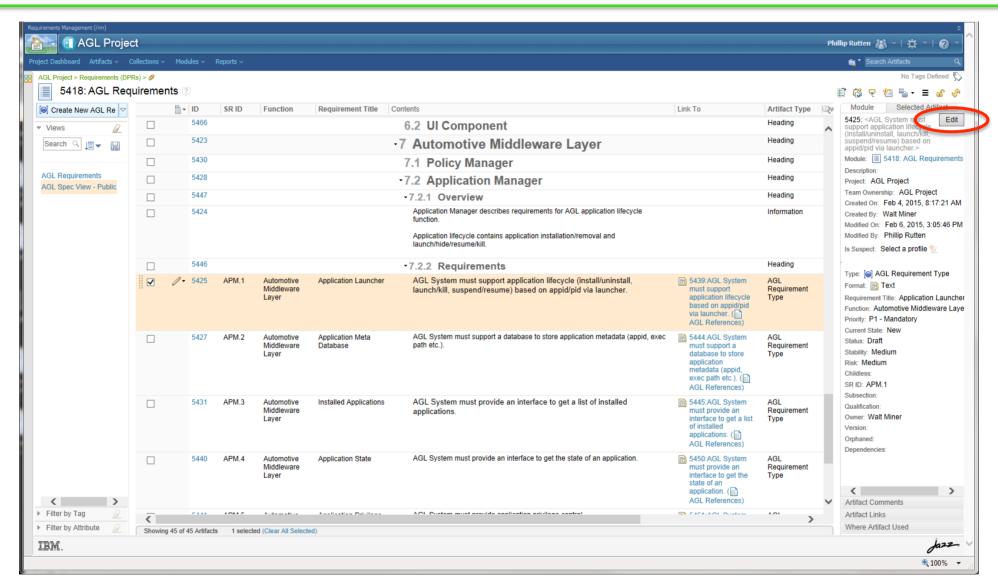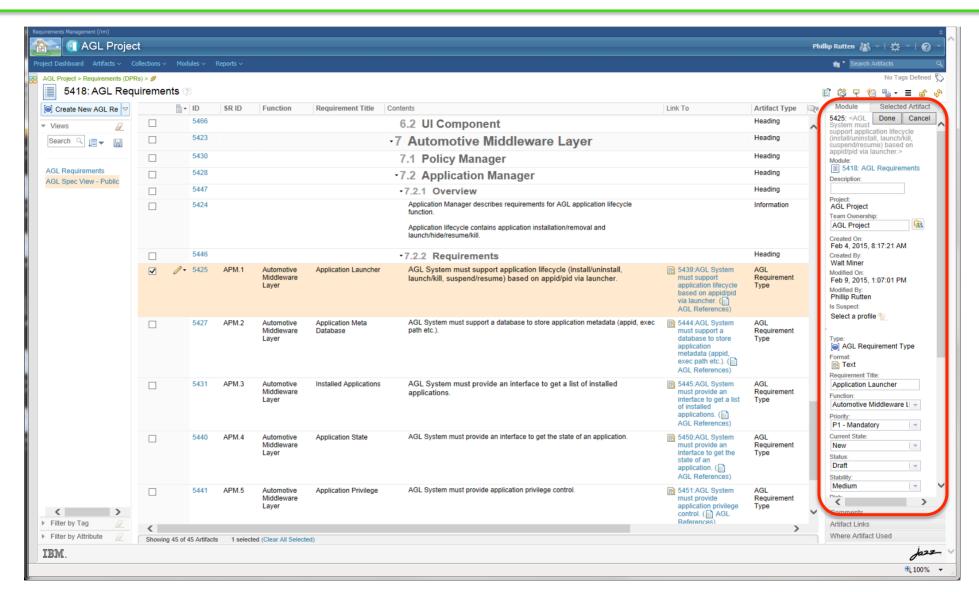# Editing - Lock Artifact

Select Edit

Edit Mode

Edit Selected Artifact - Option 2

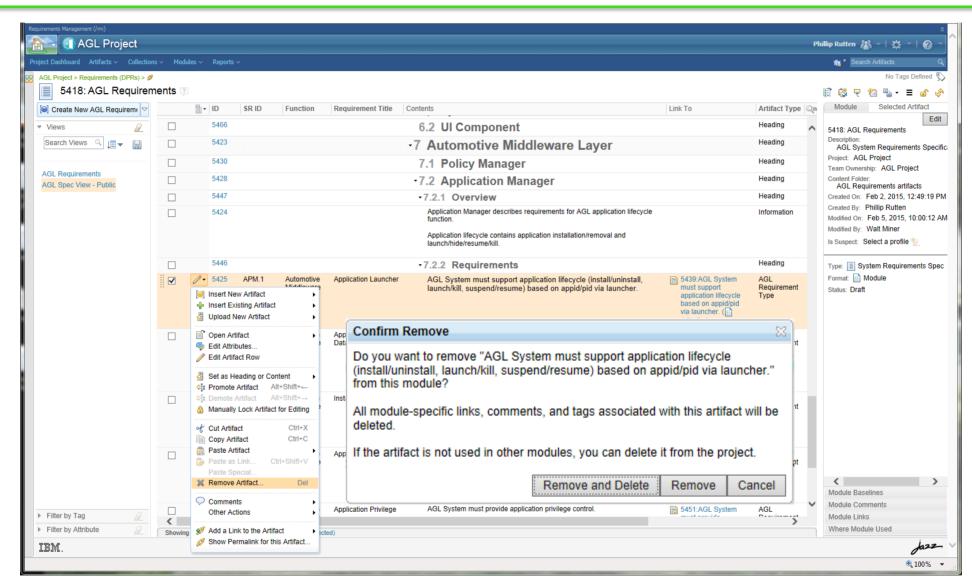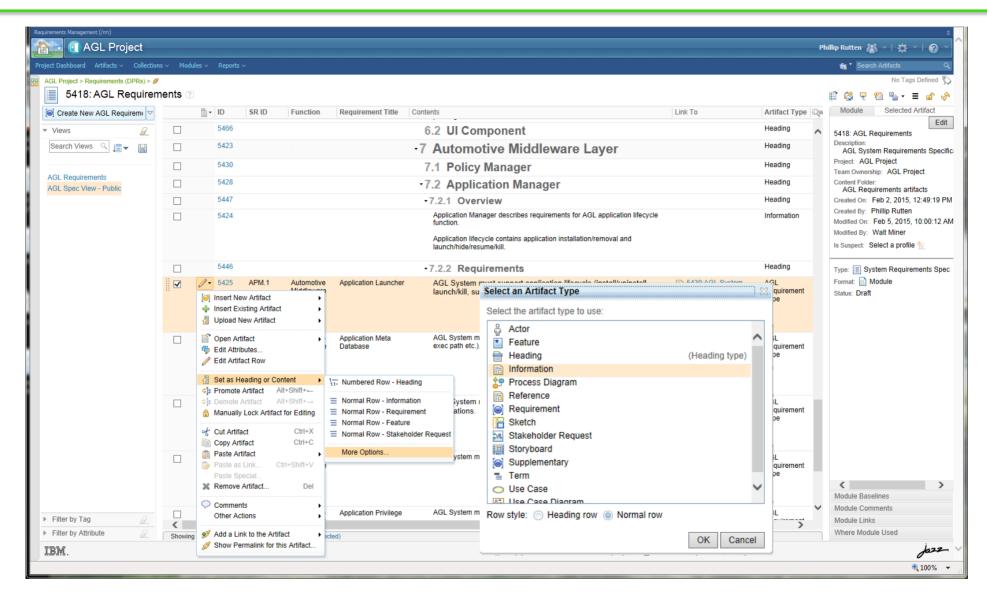# Edit Selected Artifact - Option 2 (cont.)

Remove/Delete Artifact

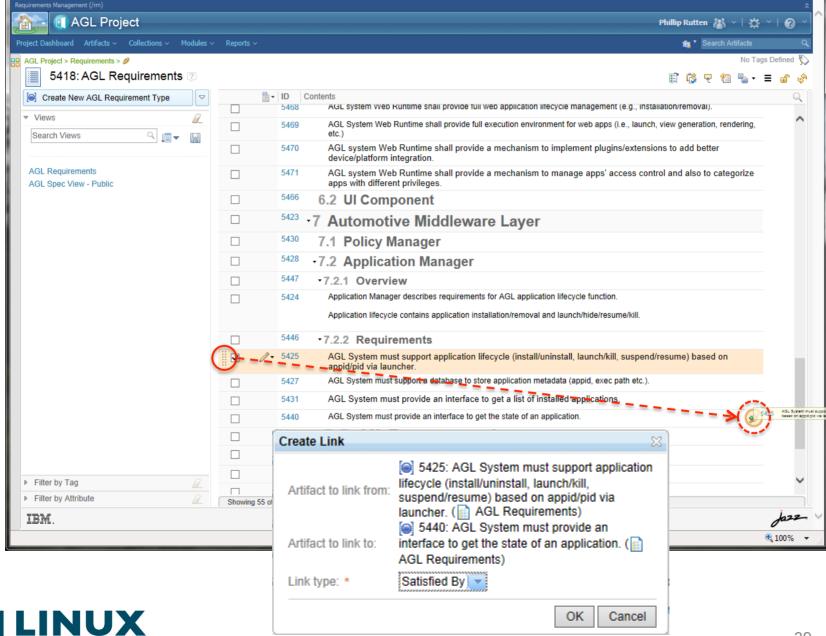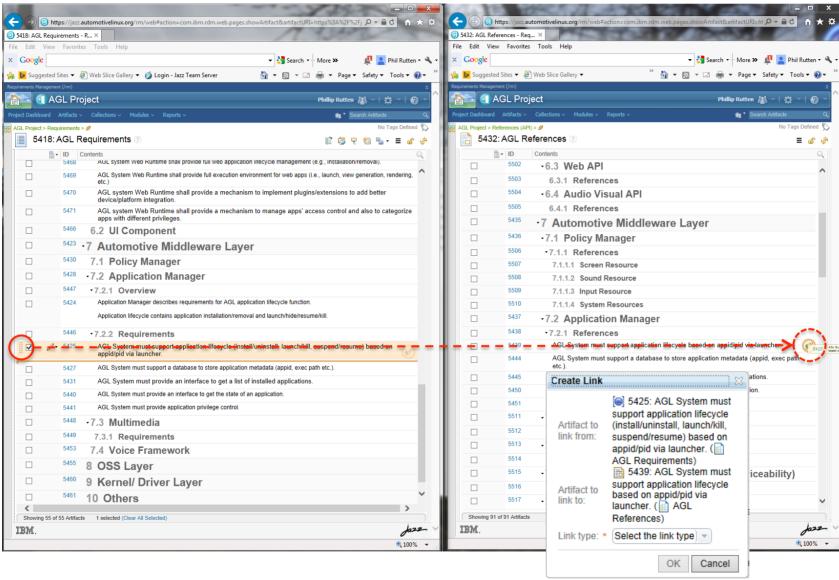# Selecting or Changing Artifact Type

Linking (Tracing)

Drag & Drop Linking

Linking Across Modules
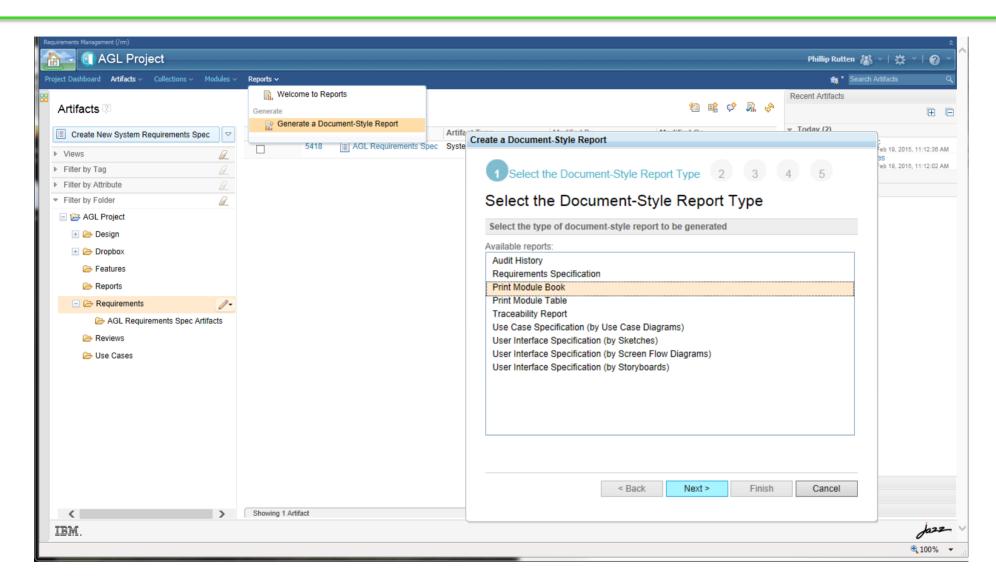
Printing a Document via Reports

Document Printing

- PDF and Word versions of the document can be created using the Report mechanism of DOORS NG
  - Current Version
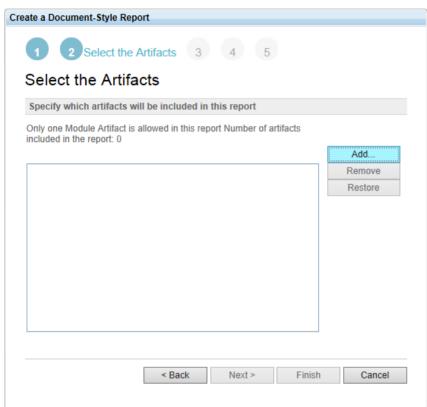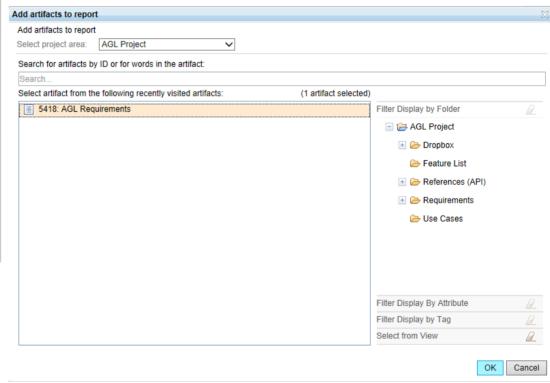 - Specific View and/or Baseline

Report of Current Module
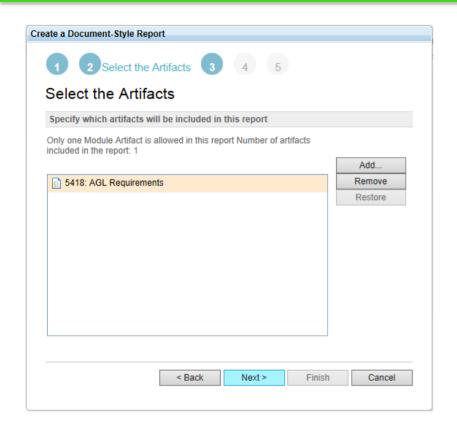
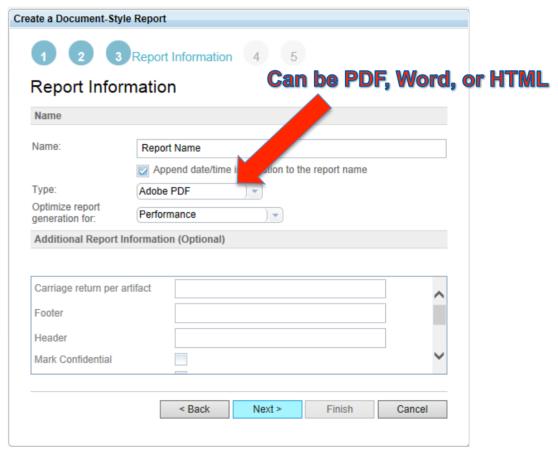# Selecting Artifacts to be Printed

Name, Output Type, and Format

Create a Document-Style Report

① ② Select the Artifacts ③ ④ ⑤

Select the Artifacts

Specify which artifacts will be included in this report

Only one Module Artifact is allowed in this report Number of artifacts included in the report: 1

5418: AGL Requirements

Add...
Remove
Restore

< Back   Next >   Finish   Cancel

Create a Document-Style Report

① ② ③ Report Information ④ ⑤

Can be PDF, Word, or HTML

Report Information

Name

Name: Report Name

☑ Append date/time information to the report name

Type: Adobe PDF

Optimize report generation for: Performance

Additional Report Information (Optional)

Carriage return per artifact

Footer

Header

Mark Confidential

< Back   Next >   Finish   Cancel

Name, Output Type, and Format

Report Output to Local Machine

Create a Document-Style Report

1 2 3 **4** Save Document-Style Report to Project 5

Save Document-Style Report to Project

☐ Save document-style report to project

Location

Project:	AGL Project	Select Project...
Artifact Type:	Actor	
Folder:	AGL Project	Pick Folder...
Tags:		Add Tags...

[< Back] [Next >] [Finish] [Cancel]

Create a Document-Style Report

1 2 3 4 **5** Generate the Document-Style Report

Generate the Document-Style Report

Click Finish to generate the document-style report.
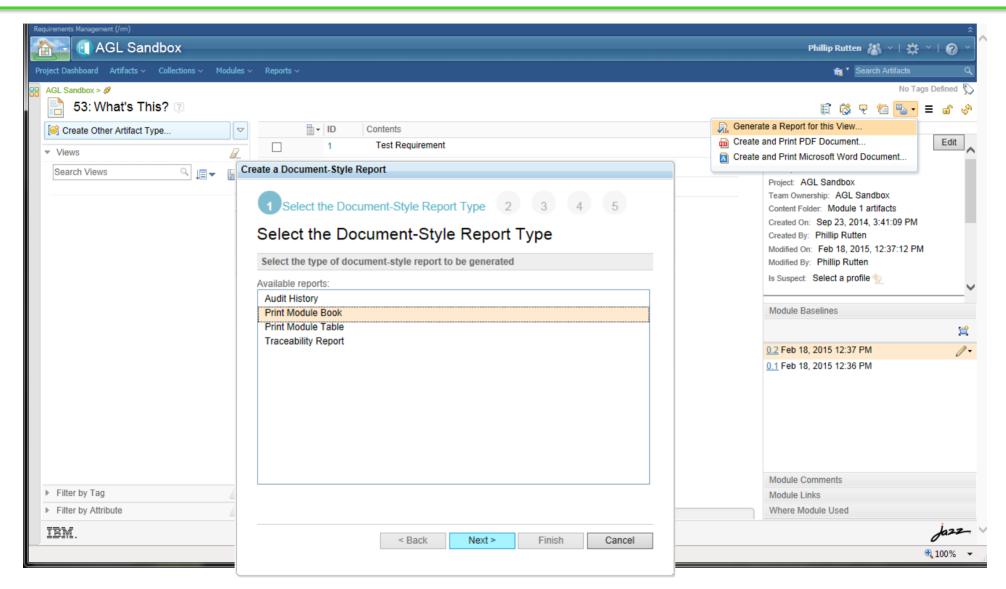
[< Back] [Next >] [Finish] [Cancel]

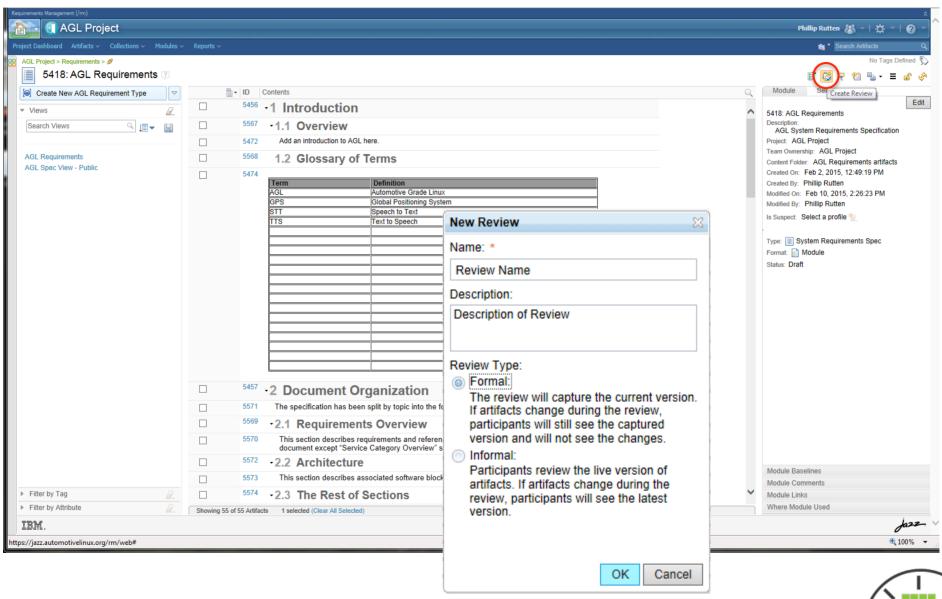# Using a View to Select Baseline for Report
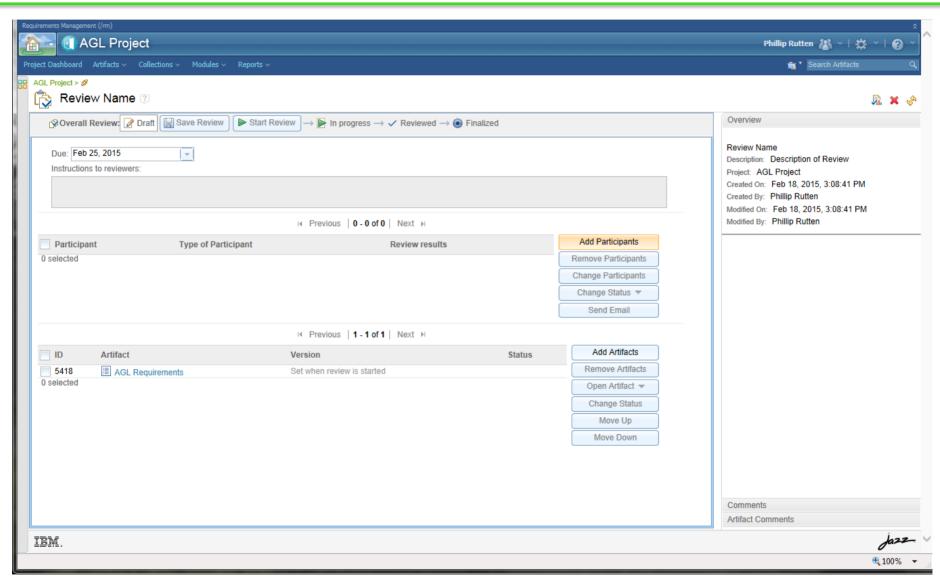
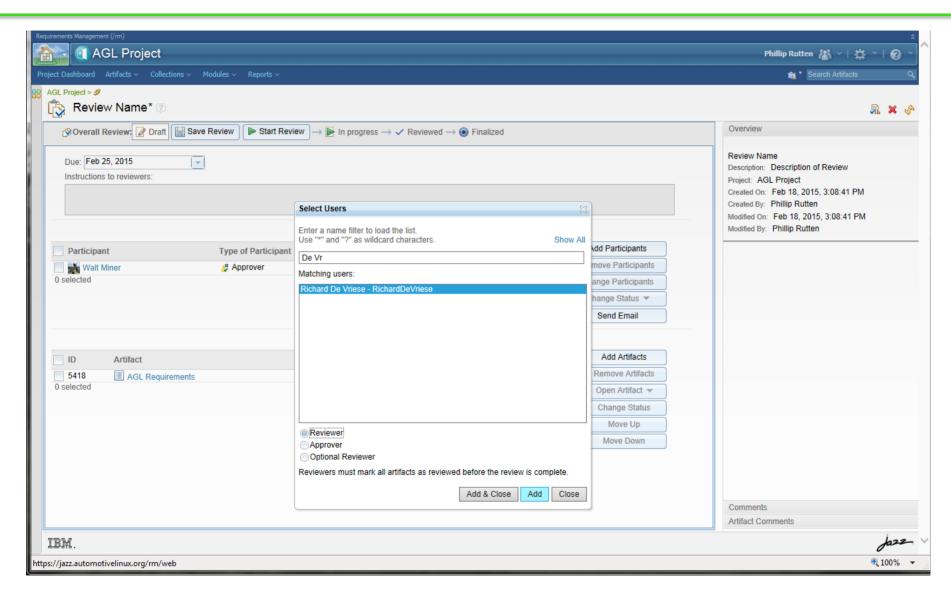# Document Reviews
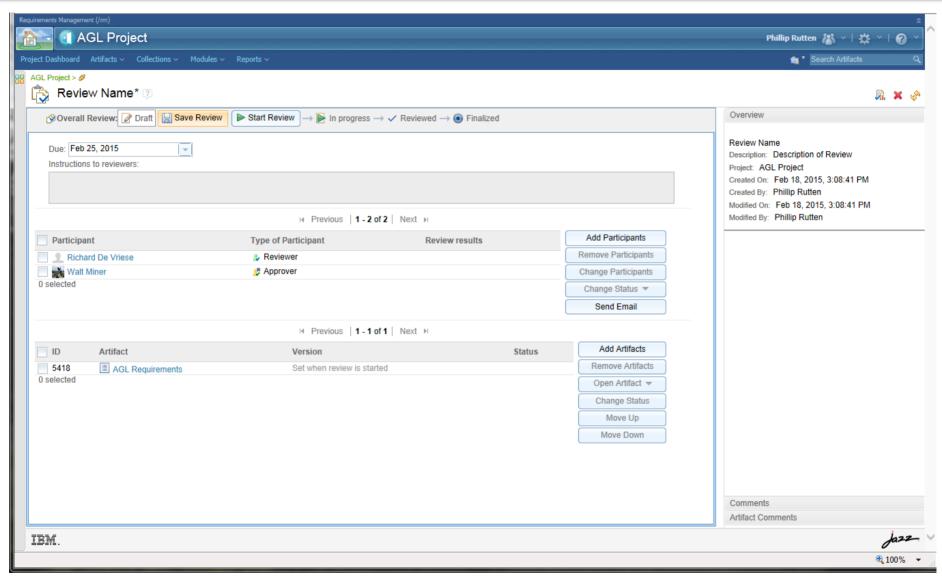
Initiate a Review

Review Artifact

Add Participants

Save / Start Review

AGL Spec Project

AGL Spec Project

- Mail list created
  automotive-rqmts@lists.linuxfoundation.org

- Project Wiki Page Created
  https://wiki.automotivelinux.org/project-agl-spec-v1.0

References

- IBM Rational User Education (YouTube) - Introduction to IBM Rational DOORS NG

- http://www.youtube.com/playlist?list=PLZGO0qYNSD4X757uGAmkWhieGknL4asHl

Thank You