Data Import / Export Methods in MagicDraw



How to receive / provide model information for non-SysML modeling team members (without retyping it)

Rod Wheeler

2/13/2020

Importing / Using /Exporting Data

- 1) Review Data and understand the schema structure
 - Reports Numerous Templates available to generate views
- 2) Exporting /Importing Model Data
 - Multiple Options available
 - CSV File Format / Excel File Format / HTML
- 3) Integrations with External Tools/Databases
 - Requirements Interchange Format (ReqIF), AP233
 - Open Services for Lifecycle Collaboration (OSLC) OASIS Open Projects
 - Numerous Additional Options Available discussion?

2/13/2020

Requirements Resources



INCOSE Guide for Writing Requirements 2019 V3 - Summary Sheet INCOSE business oper level; and syst Dustress Manda Ŧ \$ Operios, Augulo System Needs System System Element System Denuni s, and p

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l levels. There is an er at several levels. Then level; a business man ans level:

at the next level as shown in Figure In all cases, for each level, the concept ts can be trace needs, and requirements can back to the previous level fr they were either decomposed of

Definitions

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An entity is a single thing to which a concept, need or regulations, an enterprise, business unit, service, system, or systematic applications, and a product, procest, human, or organizations, and a product process, human, or organizations, and a product process, human, or appendix and a product process. Human, or appendix and a product process, human, or appendix and a product process. Human, or appendix and a product process, human, or appendix and a product process. Human, or appendix and a product process, human, or appendix and a product process. Human process, and a product process, and appendix product process, appen

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satisfy a concept, need or parent requirement.	readers.
C J - Appropriate. The specific instrat and amount of detail of the	- CA - Complete: The requirement sufficiently describes the
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should state a single capability, characteristic, constraint, or	- CG - Fercibic The need or requirement can be resulted with
quality factor.	entity, constraints (for example, cost, schedule, technical, legal
C J - Corror: The need must be an accurate representation of the	etical, statety with acceptable risk.
an accurate representation of the need hard requirement should	- CF - Ferfable: The requirement is structured and worlded such
conform to an approved standard pattern and style gaids en-	that its realization can be proved (writided) to the custome's
tradard for writing and manazing needs and requirements.	satisfaction at the level the requirement exist.
Table 1. Characteristics of	well-formed requirements.
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nitSystem/System Element/Process/ Needs Document or equivalent	electronic representation of the set of needs.
and of manufactures a characterized and of amound to manufactures and	measuring for the antity and its external interfaces documented in a

rprise/Business Unit/System/System Element/Process) Requirem nts Specification

1

INCOSE WGINCOSE-TP-2010-006-03 | 19 July 2019

Requirements Working Group

Requirements Resources (continued)

SYSTEMS ENGINEERING LEADING INDICATORS GUIDE

Version 2.0

January 29, 2010 Supersedes Initial Release, June 2007



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Magic Draw Plugins – Import/Export

 FREE MagicDraw Plugins 	🗆 Plugins (no cost)
	Cameo Collaborator Publisher
CSV Import	Cameo Inter-Op Plugin
	Cameo Safety and Reliability Analyzer
Excel Import	CSV Import
	Development Tools
	Document Modeling
	Enterprise Architect Import
	Excel Import

Exporting Data from MagicDraw -Tables

• Multiple Options available from table

- CSV File Format / Excel File Format / HTML
- Reports Numerous Templates available

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Create Diagram				
Magic Library Overview	Requirement [Read-Only] ×			
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	Each library item is assigned to one or more categories and contains a list of keywor			

quirements.mdzip [C:\Users\RWHEELER\Documents\CameoMagicDraw\samples\requirements\]

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Report Templates - Multiple Out Of The Box templates provided – use as is or "Customize" to generate data views/reports needed

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	Kew Edit Delete Open Vinable Core Atach

Generate your documents from the model: Note: some external tools are able to parse and consume word INCOSE WG

Set up a table view

Display rows and columns you wish to export or add data into

Cameo Enterprise Architecture 19.0 - MagicLibrary requirements.mdzip [C:\Users\RWHEELER\Documents\CameoMagicDraw\samples\requirements\]
File Edit View Layout Diagrams Options Tools Analyze Collaborate Window Help

B Containmen* B Diagrams	Magic Library Overview MagicLibrary Requ	irrement [Read-Only] X	Theat I columns I P	Dunart III Danaut IV - D
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Dependency Matrices		General requirements		
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🗄 🛄 Glossary Tables 3	R 44.1.1 User types BL 3		R 44.1 General requir	
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E Requirement Containment Maps		MagicLibrary maintains history of item reservations, loans & returns for every reader.	2	
E Requirement Derivation Maps 5	R 44.1.3 Item history maintainance		R 44.1 General requir	
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Satisfy Requirement Matrices	La La Harrisona Successes.		La 44 magicon ary	
Sequence Diagrams	200	A large organization maintains a library, which contains books, audio and video recor		
7 State Machine Diagrams	R 44.2.1 Library description	ds.	R 44.2 Problem State	
E Use Case Diagrams				
8	IR 44.2.2 Decision to have software system	The organization made a decision to implement software system Magicubrary dedica ted for facilitation	R 44.2 Problem State	
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othing to display 10	R 44.3.1 Administrator responsibilities	settinas like	R 44.3 Responsibilitie	
		Librarian is responsible for managing inventory data: items and tree of categories.		
11	R 44.3.2 Librarian responsibilities		R 44.3 Responsibilitie	
-		Pandor may review his profile which contains his researchings loans, requires and		
12	R 44.3.3 Reader rights	his personal data.	R 44.3 Responsibilitie	
	the second se	Item reservation		
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-		Item reservation general		
14	E R 44.4.1 Item reservation general	addit reper report general	R 44.4 Item reservation	
			The second s	
	-	Item may be found either by browsing the category tree or searching for items by th	-	
13	LE 44.4.1.1 Methods to find item	eir property values.	R 44.4.1 Item reserv	
-		If reader finds a desirable item, he makes a reservation for it.		
16	R 44.4.1.2 Found item reservation		R 44.4.1 Item reserv	
		If the item is immediately available then the reader is informed that he may contact li		
12	LBJ 44.4.1.3 Immediat loaning of available	e pranan for roaning it according to the made reservation.	LBI 44.4.1 Item reserv	
		If the item is currently loaned out or assigned to another reservation then the reserv		
18	R 44.4.1.4 Waiting list for not available	it ation is put to the	R 44.4.1 Item reserv	

Select the File type you wish to export/import

- From the Table view, you are given three options, with similar behavior on each option;
 - CSV Comma Separated Values
 - HTML Hyper Text Markup Language
 - Excel Workbook (supports sync)



Reliability, Safety, Logistics were able to use Excel files with their specialty tools

Excel Export and Sync Option

 Perform a File export first to establish a template that can be subsequently modified



Expand the Details dialog to set Sync Options

- Expand the Details dialog at bottom left of form to set Sync Options
- Select the file to populate the mapping options

	ΦΥΥ	Futer: U*				
		Text	Owner	Risk		
	Magic Library		Requirements	Medium		
	General requirement	nts	E 44 MagicLibrary			
	Problem Statement	Excel/CSV Sync Ontions				
ihts	Responsibilities an Item reservation	Set Excel/CSV sync options This tool allows you to specify settings before sync the table. To define syncing or mapping options, c	ing content between an Excel/CSV file ick the Details button.	and a table. Select the Exc	el or CSV file to sync with	Cx
		Select Excel/CSV file From file system From model Excel/CSV File: Sync Options If rows in the file are deleted: Mark as obsolete	~			<mark>4</mark> 8
		Mapping Options Sheet: First cell: CSV delimiter: First row contains headings Table Columns	Drag columns from right o	r left to map	Excel/CSV Columns	
				* 1		

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Description of the Excel/CSV Sync Options dialog areas



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Setting the Sync Mapping

- Select the File
- Select the Sync Option
- Establish Relationship between the Model and Excel File Row Names

	😰 Excel/CSV Sync Options	>
Name	Set Excel/CSV sync options	
irary	This tool allows you to specify settings before syncing content between an Excel/CSV file and a table. Select the Excel or CS the table. To define syncing or mapping options, click the Details button.	V file to sync with
ieral requirem		
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n reservation	Sync Options	
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	Mapping Options Delete elements from the model Remove elements from the table	
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	First row contains headings	
	Table Columns Drag columns from right or left to map	Excel/CSV Columns
	Name	Requirement (A1)
	Text	Text (81)
	Owner	Parent (C1)
	Risk	Priority (D1)
	승 %	
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CSV Import setup

After you open a project, you can start the CSV Import plugin by clicking File > Import From > Import CSV on the MagicDraw main menu. The Import CSV: Setup dialog, see figure below, will appear.



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Interchange with External Tools: Export / Import

- ReqIF[™] Requirements Interchange Format
- <u>https://www.omg.org/spec/</u> <u>ReqIF/About-ReqIF/</u>
- OMG Open Standard Interface used by numerous commercial tools in exchanging requirements information
- OSLC OASIS Open Source

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	Import From		R 44.2 Problem Statement	tatem
	Export To		Project Usage	
	Convert To		Template	3
	Share Packages		UML Clean XMI File	01
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	Print Preview		MOF XMI File	>
5	Print Options		Requirements Interchange Format (ReqIF) File	>
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ABOUT THE REQUIREMENTS INTERCHANGE FORMAT SPECIFICATION VERSION 1.2

REQIF™

Requirements Interchange Format

This document is created to inform: - Persons interested in exchanging requirements data between argonizations that do not have a possibility to share the same repository. - Requirements authoring tool vendors who want to support the Requirements hartchange Format (ReQF) with export and impart interfaces for their requirements authoring tools. - Tool vendors other than requirements authoring tool vendors who wish to interchange, requirements for documentation or other purposes. - Anyone interested in defining, interchanging, storing, etc., requirements in a standard interchange format.

Requir	ements Interchange Format
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1.2	
Docum	ent Status:
formal	0
Public	ation Date:
July 20	16
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Specification (https://www.omg.org/spec/Reg/F/1.2/PDF)

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COMPANIES THAT HAVE CONTRIBUTED TO THE DEVELOPMENT OF THIS SPECIFICATION

Capyright © 2010 88solutions (/spec/company/88solutions)
 Capyright © 2010 Atege now (PTC (/spec/company/ptc))



Requirements Interchange Format (ReqIF)

Version 1.2

OMG Document Number: formal/2016-07-01 Standard document URL: http://www.omg.org/spec/ReqIF/1.2 Machine Consumable Files: Normative: http://www.omg.org/spec/ReqIF/20110401/reqif.xsd http://www.omg.org/spec/ReqIF/20110401/reqif.xsd

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Date: July 2016



OPENPROJECTS

13

OSLC

=

Open Services for Lifecycle Collaboration

Creating standard REST APIs to connect data

Achieving the Digital Thread

Use OSLC to connect your data and achieve the digital thread across domains, applications, and organizations



CameoData Hub - \$\$\$ MagicDraw Plugin Capabilities / introduction

The primary use of Cameo DataHub is copying data with synchronization capabilities to and from the following requirement management tools.

- MagicDraw (MagicDraw[®] with SysML and UPDM Plugin 18.5)
- IBM[®] Rational[®] DOORS[®] (8.0, 8.1, 8.2, 8.3, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, and 9.6)
- IBM[®] Rational[®] DOORS[®] Next Generation 4.x, 5.x, and up to 6.0.4
- HP Application Lifecycle Management (ALM) 12.x
- CSV files

Can copy text-based requirements and requirement objects between the applications mentioned above.

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DataHub: Data Sources

- DataHub supports multiple file connection types;
- Comma Separated Values
- IBM DOORS
- IBM DOORS Next Generaltion
- OSLC Provider



DATAHub – CSV



The CSV file is not updated when the updates on the tree-view CSV Data Source are not saved.

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CSV Data Mapping in DataHub



D X File Edit View Layout Diagrams Options Tools Analyze Collaborate Window Help 📔 🚔 📲 • 🛄 🛄 • 🎧 • 🥐 - 💖 🏠 • 🔀 Create Diagram Containment 🔠 Diagrams 4 Þ 🗉 6 Cameo DataHub Explorer MagicLibrary Requirement... X E + × Containment E # × 🔶 🐣 📴 🗛 🚺 Add New 🔚 Add Nested 📮 Add Existing... 🍿 Delete 🎽 🛒 🔹 🌰 Cameo DataHub Explorer 👌 🙋 - 🔺 🗐 - Q 喀威 🛱 🚖 Q 🝺 φ. (# Q, 6 Criteria 🖃 🔁 Model ~ Scope (optional): Drag elements from the Model Browser Oxy ... Filter: 🖓 Operation: Copy Data V 🚊 🛅 DataHub_Data_Simple Requirements Set 2020-02-09 \odot Type text to search 🗄 📃 Script Name Text ______ DHDBV1_7335917676427132831.zip Magic Library 🖨 📑 MagicLibrary Requirements Table 2020-02-09.csv ~ 1 🖃 🔳 44 MagicLibrary Requir E Requirements 44 MagicLibrary 😑 🛅 Doors data subsysten 44.1 (s) General require (s) General requirements 44.1.1 User types BL 3 E Release Notes E R 44.1 (s) General requirements 2 E 44 Ma 44.1.2 Item assignment to categories 15 1 44.1.3 Item history maintainance DD SW SS 2-7 MagicLibrary supports three types of users; librarian, reader, and administrator. 44.2 Problem Statement R 44.1.1 User types BL 3 R 44.1 (3 44.2.1 Library description 44.2.2 Decision to have software system 🗄 🔁 Requirements 44.3 Responsibilities and rights Relations Each library item is assigned to one or more categories and contains a list of keywor 44.3.1 Administrator responsibilities R 44.1.2 Item assignment to categories R 44.1 (4 ds (optional). - 😼 MagicLibrary Requirements Diagram 44.3.2 Librarian responsibilities 44.3.3 Reader rights 👫 🖁 Zoom 📄 Documentation 🔲 Properties 🚫 OSLC Preview 🕅 Copy Data Summary X 44.4 Item reservation 44.4.1 Item reservation general **OSLC Preview** E # × Copy Data process completed. 44.4.1.1 Methods to find item No OSLC Preview available. The selected element has no OSLC links. 44.4.1.2 Found item reservation 44.4.1.3 Immediat loaning of available item 44.4.1.4 Waiting list for not available item 44.4.1.5 Search availability for item 44.4.1.6 Automatic reservation cancel Close << Details 44.4.2 Notification 44.4.2.1 Notification about available item Details: 44.4.2.2 Notification methods Success 44.4.3 Loans management 44.4.3.1 Loan registration MagicLibrary Requirements Table 2020-02-09.csv [CSV] Simple Requirements Set 2020-02-09 [MagicDraw] 44.4.3.2 Loan Return registration 44.4.3.3 Penalty reason 44.1 (s) General requirements 44.1 (s) General requirements 44.4.3.4 Penalty method < > Ô 6 DH Links DH Links LT # × Notification LT # × * * Project Envir.. Logged in as rwheeler [teamwork.mitre.org:3579] **INCOSE WG** Θ ⊙ 100% ∨ 🔍 🧶 👘

🛿 Cameo Enterprise Architecture 19.0 - Simple Requirements Set 2020-02-09.mdzip [C:\Users\RWHEELER\Documents\INCOSE\HSV MBSE Working Group\2020-02-12 test project backup\]

DataHub – DOORS Requirements Explorer



DataHub Schema Map Manager

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Identify Elements to Import from DOORS

- Establishing mapping in datahub is preformed in similar to the excel and csv file;
- Select the data type
- Select the data attributes to be populated
- Select the direction of data flow (from file, to file, or bidirectional sync)

Sync Direction:	Two-way Sync	💮 Source to Target	🔘 Targ	et to Source
Mapping Type: Group Type Mapp	ning 👻			
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Requirements Synchronized in Both Tools or

one-way sync

- Note the requirements in MagicDraw are blue as the model has not been saved after sync.
- Each requirement has an "S" indicating it is synchronized with DOORS.
- Changes made in either tool can be pushed to the other tool by selecting update on the DataHub menu



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DataHub Operations

Data

Data refers to an item whose specific format enables it to be synchronized with and referenced to and from another data. Data can be a MagicDraw[®] element or relation, a DOORS node or relation, or a CSV row.

DataHub operations

You can use DataHub operations to copy data, copy data with sync, create OSLC Link, copy data and create DHTrace, or create DHTrace. The table below describes the functions of the DataHub operations.

Operation	Function
Copy Data	To copy data without creating any DHLinks.
Copy Data With Sync	To copy data and create a DHLink for synchronization.
Copy Data with DHTrace	To copy data and also create DHTrace links between source and target.
Create DHTrace	To create only a DHTrace link without any data.
Create OSLC Link	To create an OSLC Link.

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DataHub – My.Lessons Learned

- MagicDraw ID's can be changed DOORS Object ID's can not be changed. Recommend capturing the DOORS ID within the MagicDraw element as a backup method of maintaining traceability across the databases
- DO NOT DELETE THE SYNC "S" or link package without thinking it through at least twice
- Generally DOORS admin is different than the MagicDraw Admin the two admins must work together when considering schema changes and and how it will affect data synchronization

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