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Boosting Requirements Management capabilities in MSWord: Managing Attributes



Christer Fröling CEO Reuse Scandinavia The REUSE Company *christer.froling@reusecompany.com*









- Short introduction
- Attributes What and Why?
- > The approach to manage attributes
- > Live demo
- > Q&A

SES ENGINEERING Studio





> The Systems ENGINEERING Suite:

- RQA QUALITY Studio
- RAT AUTHORING Tool
- TRACEABILITY Studio
- > V&V Studio
- KM Knowledge Manager
- SES ENGINEERING Studio
- SES ENGINEERING Studio add-in for MS Word



The **PRESENTER**



- Christer worked in the Medical and Defence sectors at either industrial organisations or as business entrepreneur for over 20 years at various operational and management levels.
- Currently he is the CEO of REUSE Scandinavia in Sweden which specializes in requirements quality services and tools within the Scandinavian region.
- Christer is a driven change facilitator and has successfully adopted and implemented international process frameworks and standards within industry.
- He has in recent years specialised in organisational learning, change management, process improvements, LEAN and Systems Engineering (SE) and Requirements Engineering (RE).



Attributes What and why?



Attributes – What are they?

- An attribute is additional information associated with an entity which is used to aid in its definition and management.
- A requirement expression includes a requirement statement and a set of associated attributes.
- The attributes can be organized within the following five broad categories:
 - Attributes to help **define needs and requirements statements** and understand their intent.
 - Attributes associated with **system verification** or **system validation**.
 - Attributes to help manage the needs or requirements across the lifecycle.
 - > Attributes to **show applicability** and enable reuse of the needs and requirements.
 - Attributes to aid in product line management



Attributes – What's the purpose?

- > The reason for using attributes is to help the project team better manage the project
- Attributes help support the SE activities enabling the information contained within the attributes to be structured for ease of processing, filtering, sorting, etc., enabling the needs or requirements to be sorted or selected for further action, and enabling management and insight into the needs and design input requirements definition as well as the development activities of the SOI across its lifecycle.
- A word of caution; as with the use of all information, a "lean" approach should be taken when deciding which attributes will be used. Do not include a specific attribute unless:
 - > The project team, their management, or their customer has asked for that attribute
 - They plan to use the attribute in some manner to manage the project and sets of needs and requirements.

From: INCOSE Needs and Requirements Manual Needs, Requirements, Verification, Validation Across the Lifecycle



Example of Requirement attributes

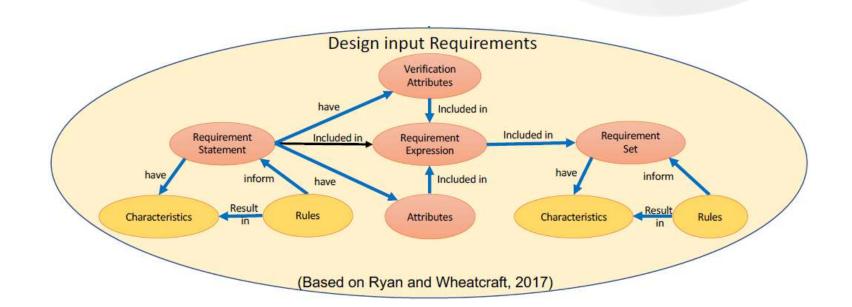
- Attributes to Help Define Needs and Requirement and Their Intent:
 - Rational
 - Trace-to-parent
 - Trace-to-source
 - State/Mode
- > Attributes Associated with System Verification and System Validation:
 - Verification/Validation Method
 - Verification/Validation Strategy
 - Verification/Validation Success Criteria
 - Verification/Validation Result



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Example of Requirement attributes

- > Attributes to Show Applicability and Enable Reuse:
 - Unique Identifier
 - Originator/Owner
 - Data entered
 - Date changed
 - Change proposed
 - Change date / Approval date
 - Risk
 - Implementation status
 - Type / Category
 - Additional Comments







Example of Requirement attributes

- Attributes to Help Manage the Needs and Requirements:
 - Applicability
 - Country
 - Market Segment

• Attributes to Aid in Product Line Management:

- Product line
- Product line variant requirement





The approach To manage attributes

OK

Cancel

Help





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Example of Requirement attributes – Example from IBM DOORS

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Example of Requirement attributes – Example from SES

♀ Skriv här för att söka

Arkiv

- Add/edit/delete attributes
 - **Types**
 - **Formats**
- Manage enumerations
- Manage workflows
- Column management
 - Position
 - Filtering

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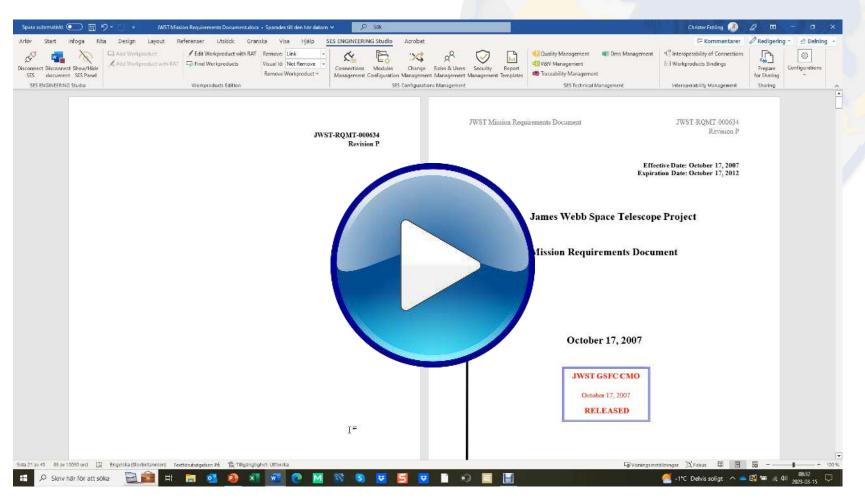


Demonstration



Steps:

- I. Open MS-Word
- 2. Connect to your ontology
- 3. Open SES Engineering Studio
- 4. View the attribute options
- 5. Add an attribute
- 6. Perform change and show workflow management







Don't miss our series of webinars!

Boosting MS Word with Requirements Management Capabilities

- 1. Introduction to the MS Word Add-in of SES ENGINEERING Studio
- 2. Writing high-quality requirements in MS Word
- 3. Parsing existing MS Word documents using different techniques
- 4. Managing requirement attributes in MS Word
- 5. Managing requirement baselines and versions in MS Word
- 6. Managing traceability in MS Word
- 7. Transforming MS Word requirements
- 8. Propagating changes from traceability links
- 9. Collaboration
- 10. Reporting Systems Engineering artifacts through MS Word

Sign up and recordings

Episode 5. Managing requirements baselines and versions in MS Word.

This episode will cover how the SES ENGINEERING Studio provides basic Requirements Management capabilities like **managing requirements versions**, **baselining** of a set of requirements as well as change management. All while using MS Word and the SES Add-in to perform your requirements work.

Date:

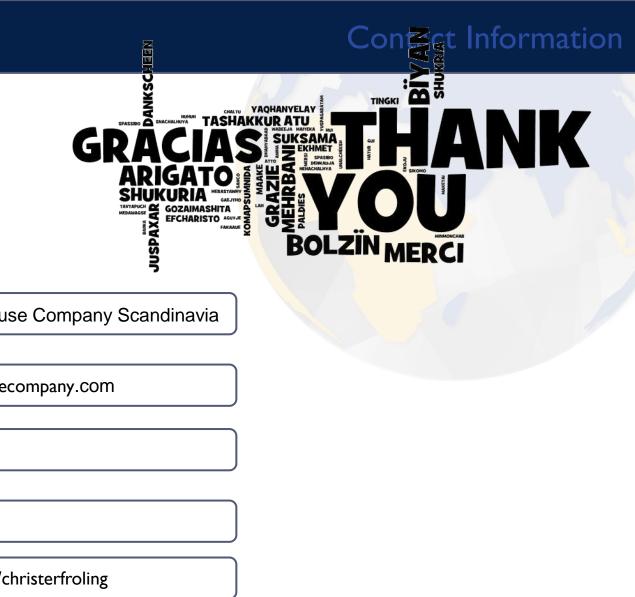
Tuesday, March 29th, 2023, 5:00 PM CET (Madrid)/ 5:00 PM JST (Tokyo)/ 7:00 PM AEDT (Sydney) Thursday, March 30th, 2023, 9:00 PM CET (Madrid)/ 8:00 AM PST (Los Angeles)/11:00 AM EST (Detroit)

15

webinar







Christer Fröling – Reuse Company Scandinavia



J

christer.froling@reusecompany.com



+46 (0)72 232 24 63

@ReuseCompany



www.linkedin.com/in/christerfroling



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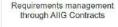




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Connecting the Dots: Interoperability between your favourite Systems Engineering tools

Semantic traceability: how to keep the digital thread all along the SE lifecycle









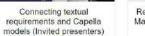
Requirements Management: Managing data over entire life

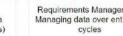
Passive voice requirements: Why "passive voice" actually can become a nightmare

(In Spanish) Invitados al podcast 'Sistemistas': V&V ¿Qué es qué?











How to kick off your KM -KNOWLEDGE Management project



Taming the System Engineering Life cycle using Connectivity and Interoperability: the SES ENGINEERING Studio

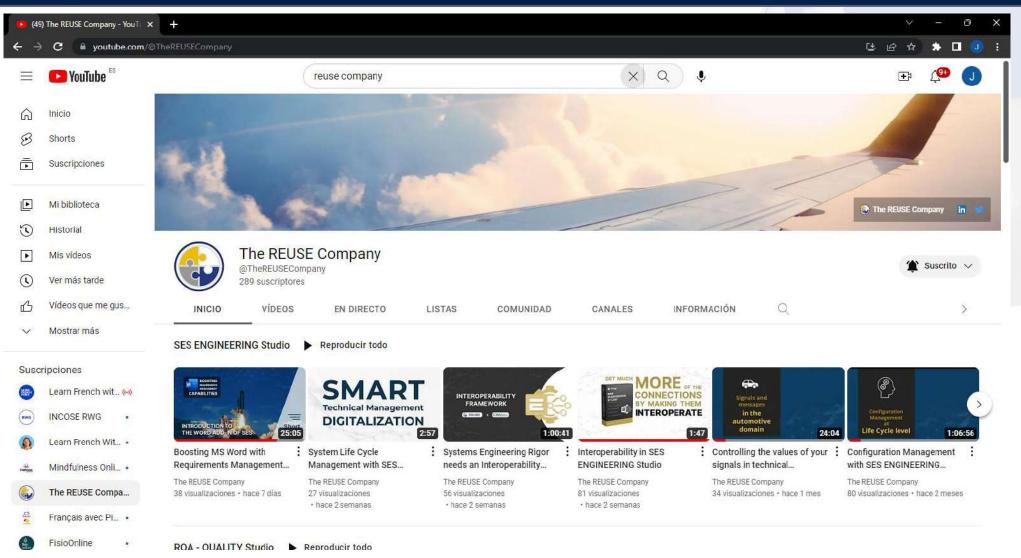


models is the only way forward

after high-quality requirements

Digitalizing the V&V process on both sides of the V-Model





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