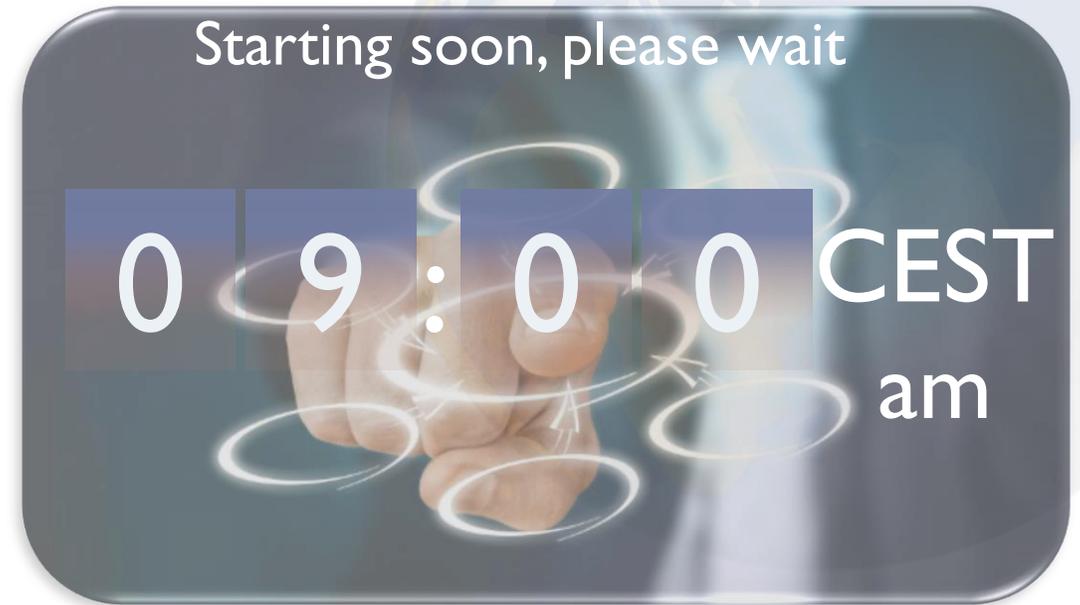


Introduction: Webinar rules

RAT for Capella

➤ Webinar rules:

- You'll be muted all along the Webinar
- There's a chatting box to ask your questions or send your comments when you want
- Please address these comments and questions to the user "The REUSE Company" and not to the presenter directly
- If you have any technical issue please use this chatting box, or mail us at: support@reusecompany.com
- The Webinar will be recorded. A link to the recording will be sent to you in few days





WEBINARS 2020

RAT for Capella

Tuesday, 16 June, 2020



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Cecilia Karlsson

- Marketing & Communication manager
- cecilia.karlsson@reusecompany.com

Table of Contents

- › Description of The Reuse Company
- › Presenter's profile
- › What is Capella?
- › Main capabilities of RAT for Capella
- › Capella models, as source of knowledge to analyse requirements quality
- › Live demo
- › Q&A





01 The company was created in **1999**

As a spin-off of a University in Europe

02 **System + Software Engineers**

Smart combination between Company staff and R&D from Academia

03 **Headquarters:** Madrid (Spain)

International offices: Stockholm (Sweden) Tokyo (Japan) Delegation

2021: USA Chicago/Detroit/Miami

04 To promote a **reusable, scalable** and global solution to a **smart** and **interoperable** Systems Engineering environment, by offering a **semantic knowledge centric** approach.

Research and Innovation in our DNA

Spin-off of Carlos III University of Madrid
TRC's headquarter is in the Legatec Technology Park of the University
≈10% of revenues are devoted to R&D
TRC is actively involved in several large EU research projects



REVaMP²

Past

ARTEMIS CRYSTAL
Requirements
Engineering



AMASS
Assurance and Certification of CPS



ARROWHEAD

Current



Celtic+: IoD
Celtic-Plus
Smart Connected World



ITEA3

Starting
ITEA3: EMBRACE

IREL 4.0
VALUE 3S



ECSEL JU



T (he) **R** (euse)

Q (ompany)y

Knowledge Centric Systems Engineering (KCSE)

- Global Repositories
- Archiving
- Configuration Management



Knowledge Centric Approach

TRACEABILITY

- Links and Interoperability
- Transformations
- Change management



QUALITY (ies)

- Quality Management
- Verification & Validation management
- Risks Management
- Smart Authoring



REUSABILITY

- Interoperability
- Retrieval & Archiving
- Adaptability to Existing Toolsets



	Aerospace and defense
	Energy
	Automotive
	Healthcare
	Other industries



A collection of logos for partner companies, organized into five rows corresponding to the industry categories on the left:

- Aerospace and defense:** AIRBUS (DEFENCE & SPACE), AIRBUS GROUP INNOVATIONS, SAFRAN AIRCRAFT ENGINES, THALES, THALES Communications & Security S.A.S., HENSOLDT, arianeGROUP.
- Energy:** FUSION FOR ENERGY, iter (the way to new energy), edf, REPSOL.
- Automotive:** RENAULT, Ford, FCA (FIAT CHRYSLER AUTOMOBILES), VW, TOYOTA.
- Healthcare:** THINK SURGICAL, Health Net[®].
- Other industries:** SIEMENS, acciona Agua, orange™, rtve, ELRA (European Land Registry Association), tirant lo blanch.

José Fuentes



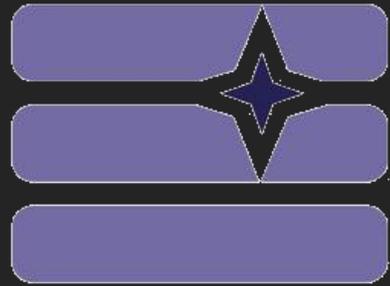
- **Current position:** Chief Operating Officer at The REUSE Company
- Product manager of the Systems Engineering Suite tools during the last 5 years
- INCOSE CSEP Certified
- Graduated in the INCOSE Institute for Technical Leadership
- Member of the board of AEIS – the Spanish chapter of INCOSE
- Active contributor to the INCOSE Guide for Writing Requirements

 TRC WEBINARS 2020

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RAT for Capella

Tuesday, 16 June, 2020



What is Capella

What is Capella

- Open-Source solution for Model-based Systems Engineering
- Comprehensive, extensible and field-proven MBSE tool and method to successfully design systems architecture
- Main characteristics:
 - Understand the customer need
 - Define and share the solution
 - Ensure engineering-wide collaboration
 - Early evaluate and justify architectural choices
 - Prepare and master V&V
- +info: <https://www.eclipse.org/capella/>



Need model

helps formalize and consolidate customer and system requirements

Textual requirements

are at the heart of the current engineering practices

Solution model

helps validate feasibility, elicit/justify new requirements for the system/subsystems

Textual requirements and model requirements

Models add rigor to need expression / solution description

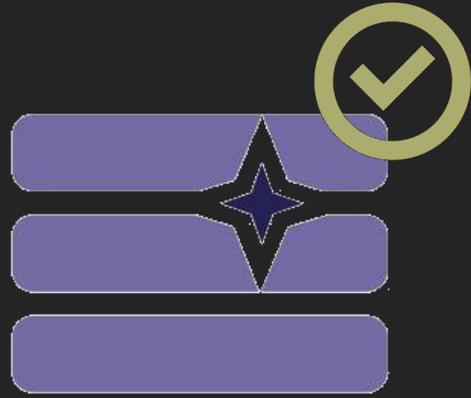
Models enable automated processing

A model requirement can formalize a textual requirement and explicit its effects and ramifications

Some expectations (environmental, regulations, etc.) are easier to express with textual descriptions

Some expectations on a model element at a given engineering level do not require a formal modeling (which is left to subsystem design)

Textual form of needs and requirements are not only useful, they are **fully necessary**



RAT for Capella

**Main
capabilities**

Enhancing the Requirements and models collaboration

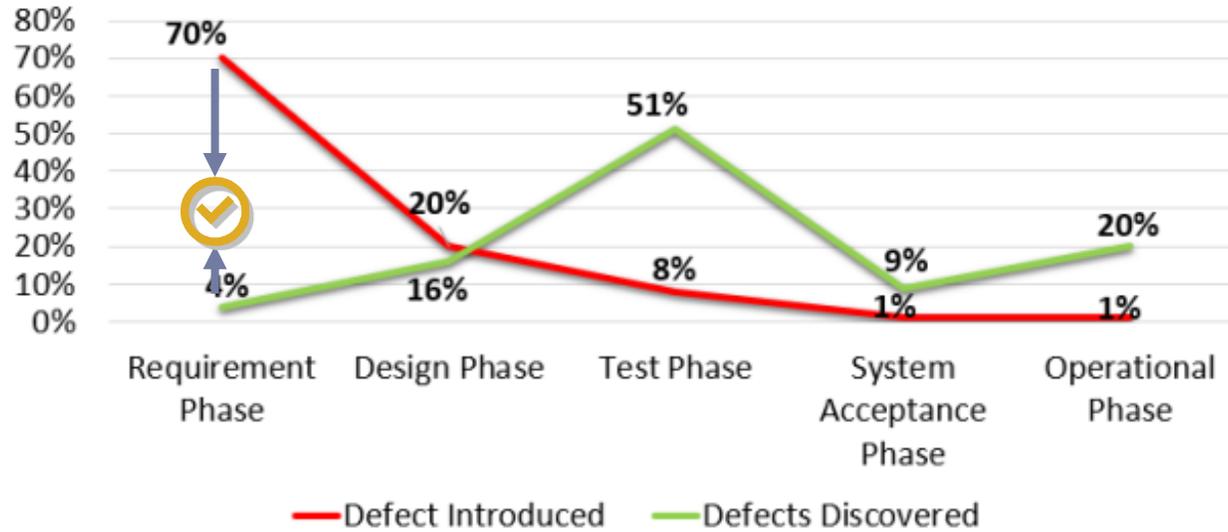
- All this looks great! But...
- ... the connection between requirements and models has to be consistent and robust
- Quality must be guaranteed at both sides



Real-time quality analysis

REQUIREMENTS are the reason for FAILURE

When errors are introduced vs. when they are discovered during the system life cycle



Source: IBM Business research 2017



Enhancing the Requirements and Models Collaboration

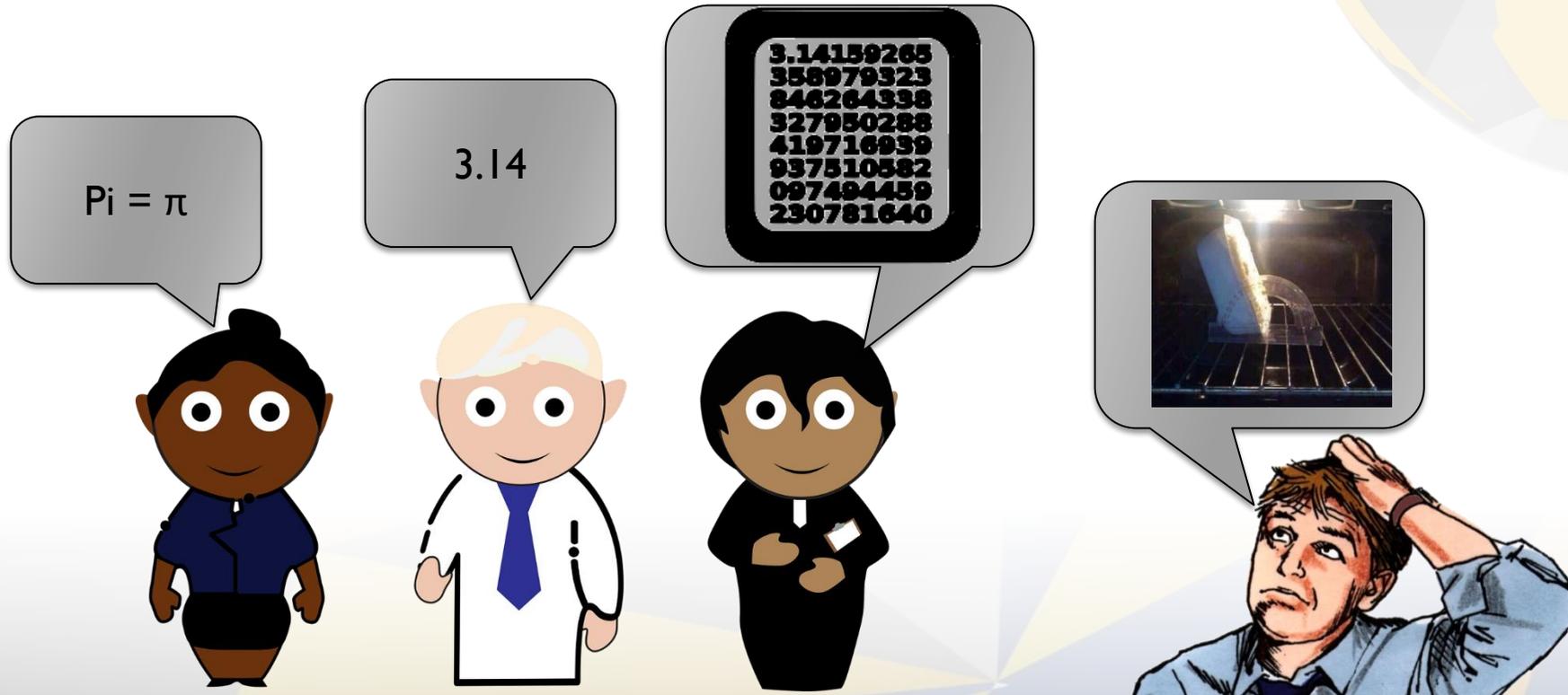
- Because communication is not always that easy:

**MY WIFE TOLD ME TO
PUT THE PIE IN THE
OVEN AT 120 DEGREES**



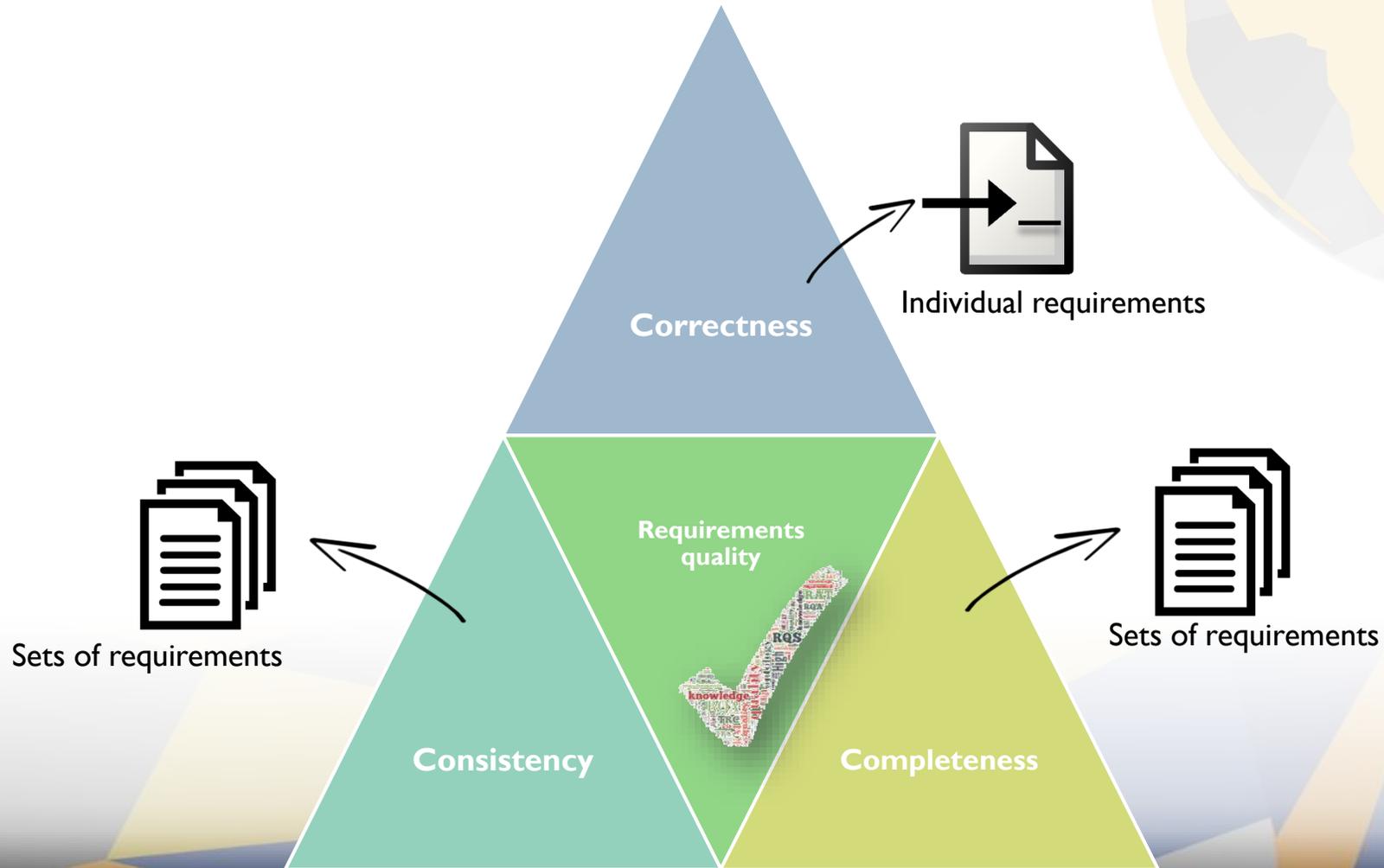
Why focusing on requirements quality

- Because communication is not always that easy:

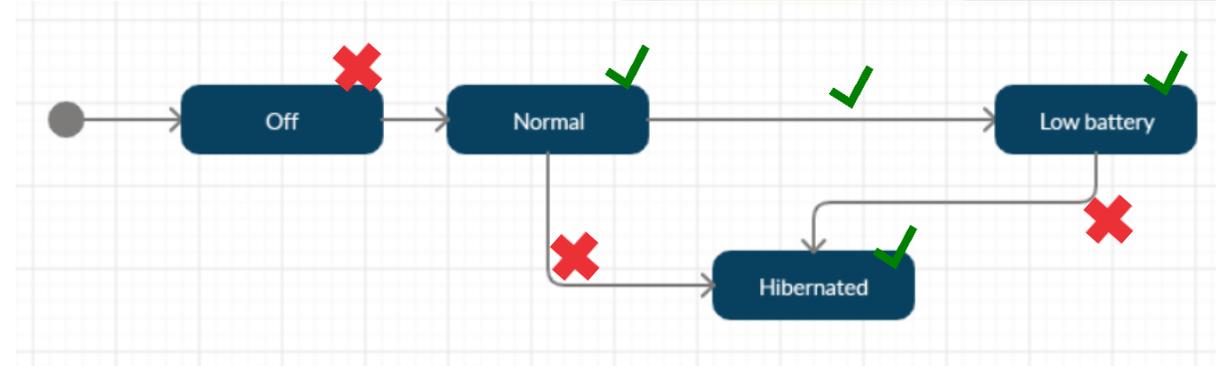
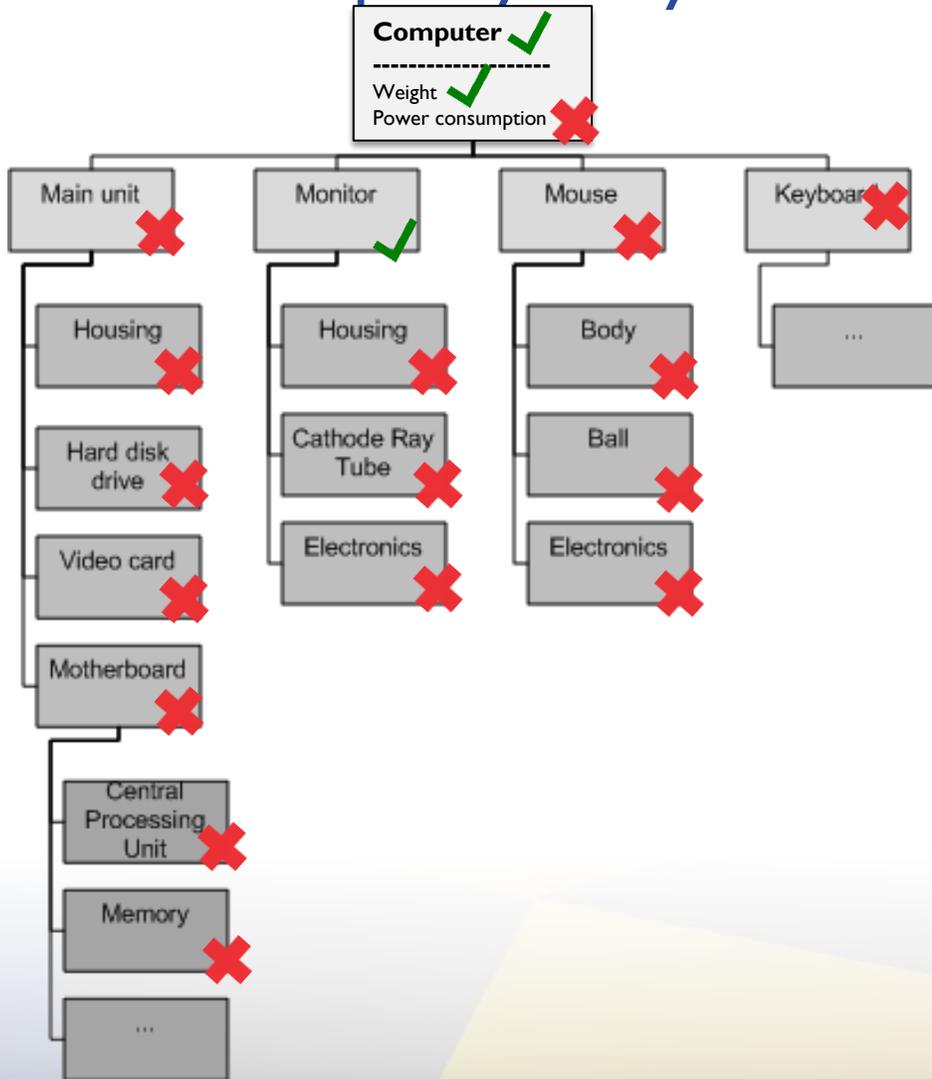


Real-time quality analysis: CCC Approach

➤ CCC – Correctness, Consistency and Completeness



Real-time quality analysis: Completeness



The computer shall have 2 monitors

The computer shall have 2 engines

When the Computer is not plugged in, and the computer is in Normal state and the level of battery drops below 10%, the computer shall transit to Low battery mode

When the Computer is in Hibernated mode, the monitor shall turn black

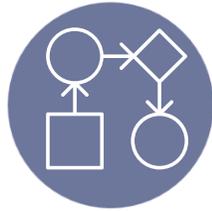
The weight of the computer shall be 1.2 kg +/- 10%

Real-time quality analysis: Consistency

Requirements-
models

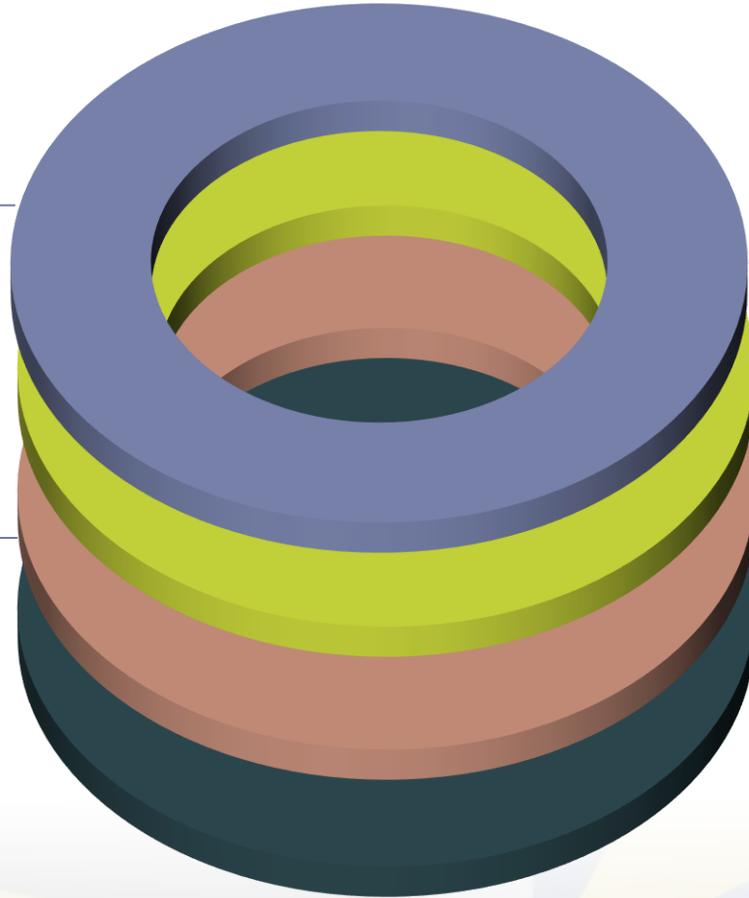
Consistency

e.g. allocation of
properties

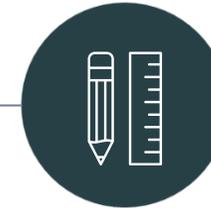


**Naming
consistency**

Among models elements
and elements in textual
requirements



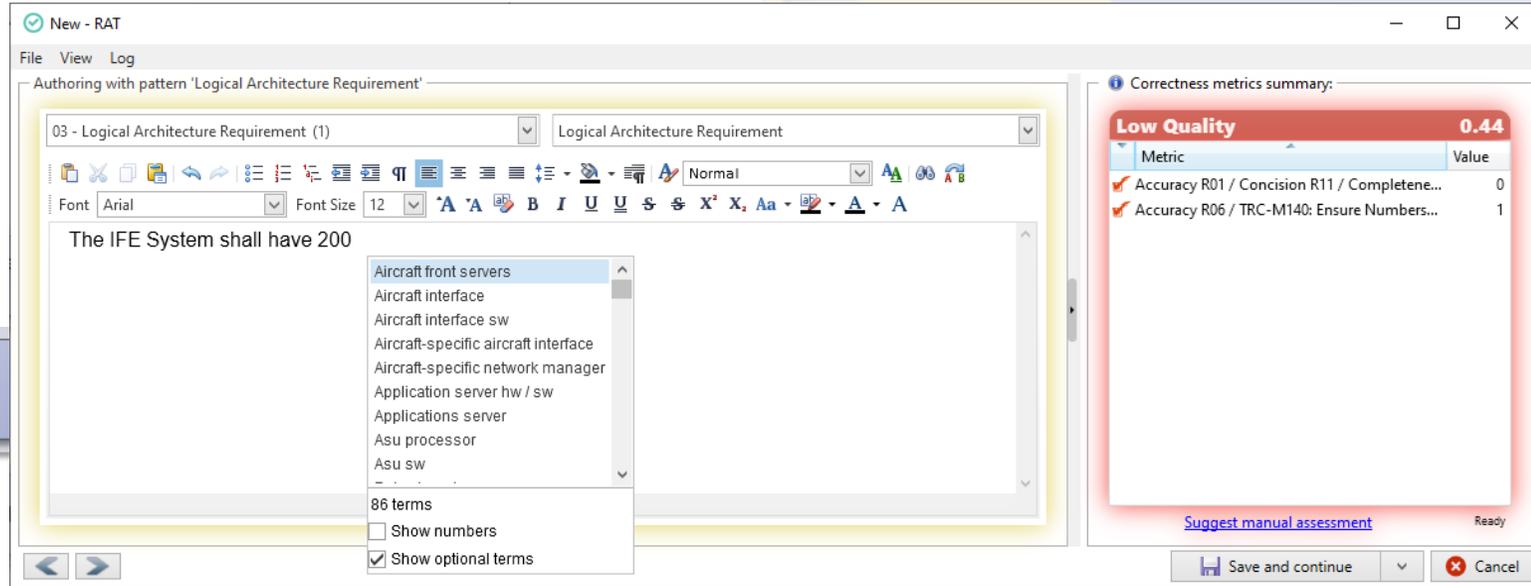
**Consistency
Among
requirements:**
e.g. overlapping



**Pattern-based
writing**



Real-time quality analysis: Patterns



Real-time quality analysis: dictionaries

RAT plugin for Rhapsody - Settings

Model Content More settings

Available Model Content:

Drag a column header here to group by the

Use	Model Scope	Element Type
<input checked="" type="checkbox"/>	OperationalAnalysis	Activity
<input checked="" type="checkbox"/>	OperationalAnalysis	Actor
<input checked="" type="checkbox"/>	OperationalAnalysis	Entity
<input checked="" type="checkbox"/>	OperationalAnalysis	Capability
<input checked="" type="checkbox"/>	OperationalAnalysis	Operational State
<input checked="" type="checkbox"/>	OperationalAnalysis	Operational Interaction
<input checked="" type="checkbox"/>	OperationalAnalysis	Operational Process
<input checked="" type="checkbox"/>	SystemAnalysis	Function
<input checked="" type="checkbox"/>	SystemAnalysis	Actor
<input checked="" type="checkbox"/>	SystemAnalysis	Component
<input checked="" type="checkbox"/>	SystemAnalysis	Functional Exchange
<input checked="" type="checkbox"/>	SystemAnalysis	Functional Chain
<input checked="" type="checkbox"/>	SystemAnalysis	Port
<input checked="" type="checkbox"/>	SystemAnalysis	Capability

RAT Plugin for Capella
By The REUSE Company

Authoring with pattern 'Stakeholder Functional Requirement'

01 - System Functionality (6) Stakeholder Functional Requirement

The **Aircraft** should be assigned to perform the interaction very quickly

Metric: R13 Non Ambiguity - TRC - Ambiguous sentences (Avoid)

Correctness metrics summary: **Low Quality 2.03**

- ✓ R02 Precision - Passive voice (Avoid) 1
- ✓ R02 Precision - TRC - Imperative mode (Enf...) 0
- ✓ R05 Precision - Imprecise quantifiers (Avoid) 1
- ✓ R11 Concision - Superfluous infinitives (Av...) 1
- R13 Non Ambiguity - TRC - Ambiguous se... 1**
- ✓ R44 Uniformity Of Language - Style guide (... 0
- ✓ R33 Abstraction Level - Solution vocabulary 1

Other quality elements:

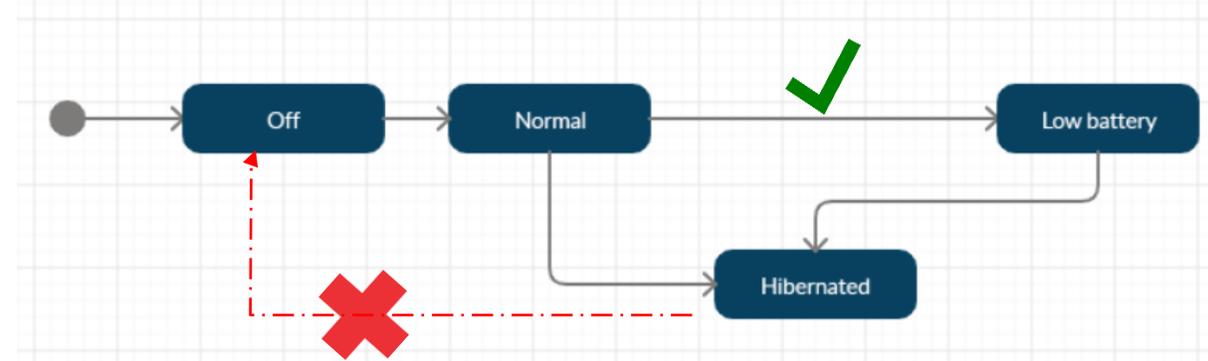
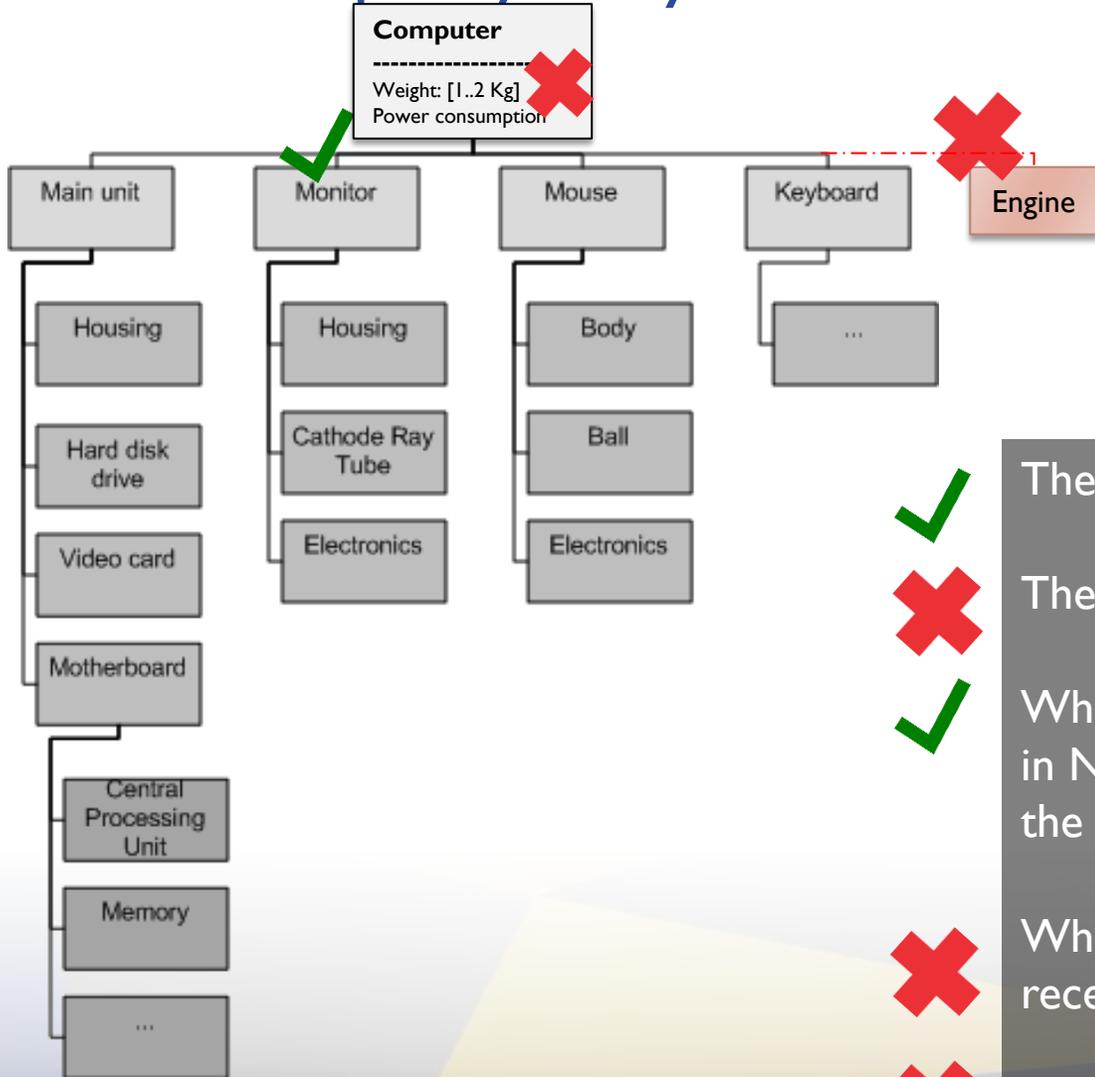
Metric	Correctness	Value	Summary	Mandatory	Weight
✓ R02 Precision - Passive voice (A...	☆☆☆	1	Avoid passive voice in your requirements	<input type="checkbox"/>	1
✓ R02 Precision - TRC - Imperativ...	☆☆☆	0	At least one imperative verb must be involved	<input type="checkbox"/>	1
✓ R05 Precision - Imprecise quant...	☆☆☆	1	Avoid imprecise quantifiers	<input type="checkbox"/>	1
✓ R11 Concision - Superfluous inf...	☆☆☆	1	Avoid superfluous infinitives	<input type="checkbox"/>	1
R13 Non Ambiguity - TRC - Am...	☆☆☆	1	Ambiguous sentences must be avoided	<input checked="" type="checkbox"/>	1
✓ R44 Uniformity Of Language - ...	☆☆☆	0	The structure of the requirement must follow one of th...	<input type="checkbox"/>	1
✓ R33 Abstraction Level - Solutio...	☆☆☆	1	Sentences and words close to design must be avoided	<input type="checkbox"/>	1
✓ R01 Precision - Indefinite article...	☆☆☆	0	N/A	<input type="checkbox"/>	1

Real-time quality analysis: dictionaries

The screenshot displays the Capella environment with a UML diagram and the RAT (Requirements Authoring Tool) plugin. The UML diagram shows an actor 'Aircraft' and a capability 'Provide Audio and Video Intercommunication Means' connected to another actor 'Cabin Crew'. A requirement 'The Aircraft shall Provide Video Gaming Services' is associated with the 'Aircraft' actor. The RAT window shows the 'RAT Plugin for Capella' interface, including a text editor with the requirement text 'The Aircraft shall pr' and a list of matching patterns. A 'Correctness metrics summary' panel on the right shows a 'High Quality' score of 0.63 and two checked metrics: 'R19 Singularity - TRC - Text length (words)' with a value of 3, and 'R44 Uniformity Of Language - Style guide (Enforce)' with a value of 0.

Metric	Value
✓ R19 Singularity - TRC - Text length (words)	3
✓ R44 Uniformity Of Language - Style guide (Enforce)	0

Real-time quality analysis: Consistency



The computer shall have 2 monitors

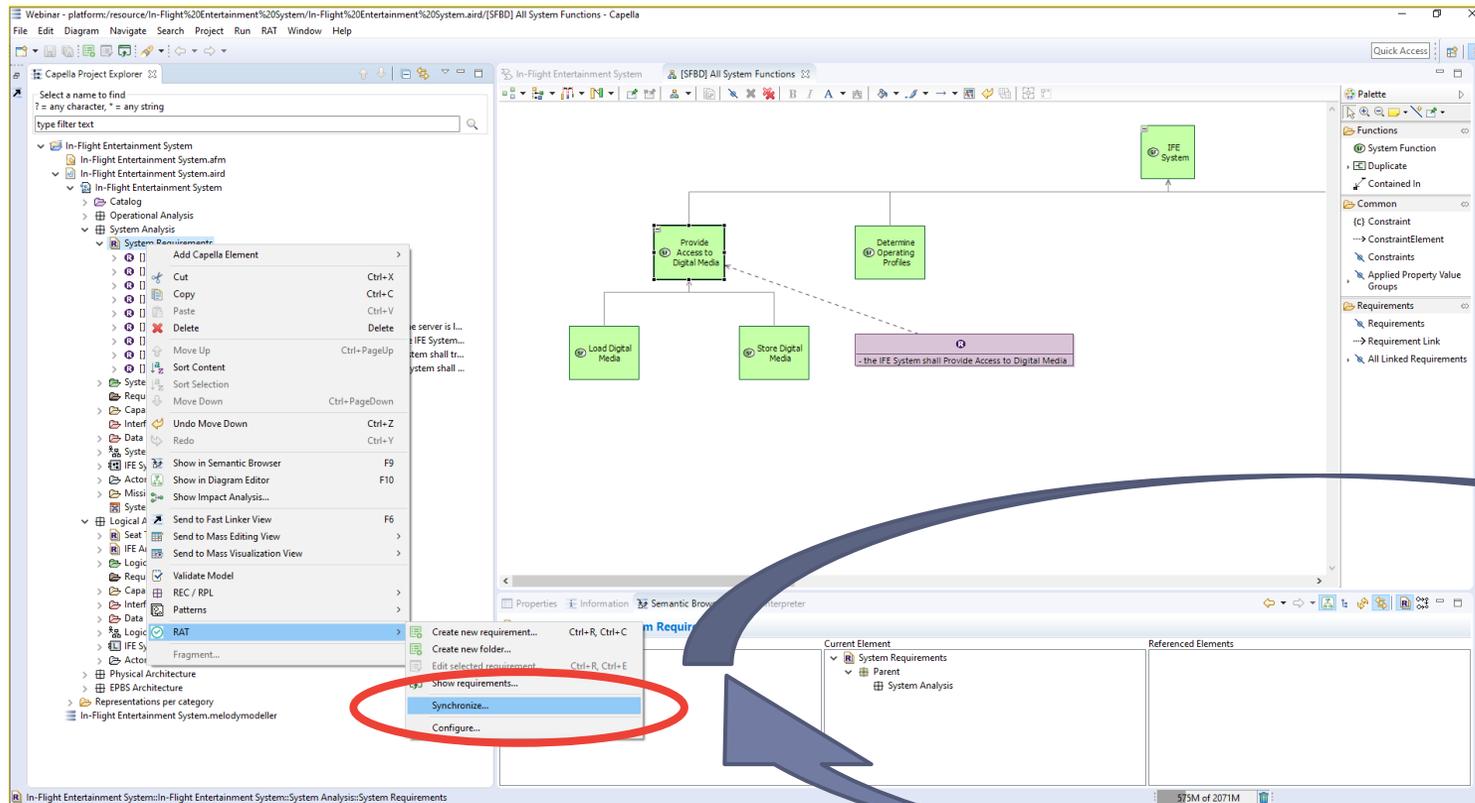
The computer shall have 2 engines

When the Computer is not plugged in, and the computer is in Normal state and the level of battery drops below 10%, the computer shall transit to Low battery mode

When the Computer is in Hibernated state and EventX is received, the computer shall transit to Off mode

The weight of the computer shall be 3.5 kg +/- 10%

Requirements roundtrip



... and more

Requirements roundtrip

The screenshot shows the Capella software interface. On the left is the 'Capella Project Explorer' showing a project structure for 'In-Flight Entertainment System'. The main workspace displays a diagram of the 'IFE System' with components like 'Provide Access to Digital Media' and 'Determine Operating Profiles'. A 'Textual merge' dialog box is open, showing a comparison between 'Master: System Requirements (d799e80a-4fe9-4577-a141-49e28d598fba)' and 'Side 2: System Requirements (00000160)'. The dialog lists merge actions for various requirements, such as 'The IFE System shall Provide Navigation Data' and 'The IFE System shall Provide Access to Digital Media'. A red circle highlights the 'Synchronize...' option in the 'Logical' menu of the project explorer.

Ch...	Master	Link	Side 2	Action	Link action
<input type="checkbox"/>	The IFE System shall Provide Navigation Data	---		Create item in side 2	Create link
<input type="checkbox"/>	the IFE System shall Provide Access to Digital Media	---		Create item in side 2	Create link
<input type="checkbox"/>	The IFE System shall Manage Passenger Services Lifecycle	---		Create item in side 2	Create link
<input type="checkbox"/>	The IFE System shall Manage Video and Audio Diffusion	---		Create item in side 2	Create link
<input type="checkbox"/>	The IFE System shall Run Cabin Intercommunication Service	---		Create item in side 2	Create link
<input type="checkbox"/>	When IFE System is in Fully Operational and the connection to the serv...	---		Create item in side 2	Create link
<input type="checkbox"/>	When IFE System is in Fully Operational and the power is lost, the IFE S...	---		Create item in side 2	Create link
<input type="checkbox"/>	When IFE System is in Degraded and the power is lost, the IFE System...	---		Create item in side 2	Create link
<input type="checkbox"/>	When IFE System is in Halted and the power is received, the IFE System...	---		Create item in side 2	Create link



... and more

Usability

The screenshot displays the Eclipse IDE environment with the following components:

- Capella Project Explorer:** Shows a project structure for 'In-Flight Entertainment System' with folders for Catalog, Operational Analysis, System Analysis, System Requirements, System Functions, Requirements, Capabilities, Interfaces, Data, System Context, IFE System, Actors, Missions, and System Functions - Operational Activities.
- UML Diagram:** An interaction diagram showing 'Aircraft' and 'Cabin Crew' actors connected to a central 'C' (Capability) node. The interaction is labeled 'Provide Audio and Video Intercommunication Means'.
- RAT Plugin for Capella:** A window titled 'RAT Plugin for Capella' with a 'File' menu and 'Authoring' tab. It contains a 'Specification selector' and a table of workproducts.

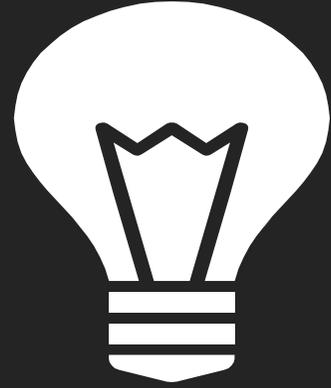
	C.	ID	Workproduct name	Correctness	Score	M...	Correctnes...	Iss...
	<input type="checkbox"/>	e907837e...	The Aircraft shall Provide Video Gaming Services	★★★★	0.31	0	13/09/201...	N/A
	<input type="checkbox"/>	f84a0e5...	The actor shall perform the interaction	★★★★	0.31	0	13/09/201...	N/A
	<input type="checkbox"/>	954257a4...	The Aircraft shall Provide Access Management Control	★★★★	0.31	0	16/07/201...	N/A
	<input type="checkbox"/>	72397322...	The Aircraft shall perform TBD	★★★★	0.31	0	13/09/201...	N/A
	<input type="checkbox"/>	7e401d1c...	The Aircraft should be designed to perform the interact	★★★	2.03	0	13/09/201...	N/A

Correctness popup window details:

- Score: 2.03
- Date: 13/09/2019 12:51:10
- Summary:
 - Avoid passive voice in your requirements: - Be Designnbe designed(x1)
 - At least one imperative verb must be involved
 - Avoid imprecise quantifiers: - Very(x1)very(x1)
 - Avoid superfluous infinitives: - Be designed to(x1);be designed to(x1)
 - Ambiguous sentences must be avoided: - Quickly;quickly(x1)
 - Sentences and words close to design must be avoided: - Design(x1)designed(x1)
 - The structure of the requirement must follow one of the patterns

Accessibility

The screenshot displays the MBSE Tool - Team for Capella interface. On the left, the 'Capella Project Explorer' shows a tree view of the project structure. A requirement element, 'The system will have a System administrator', is selected and circled in red. A context menu is open over this element, with the 'RAT' option highlighted. A sub-menu is visible, showing 'Edit selected requirement...' and 'Edit a requirement using RAT'. The main workspace shows the 'Workflow of Test Team Project' with stages: Operational Analysis, System Analysis, Logical Architecture, Physical Architecture, and EPBS. The bottom status bar indicates the current path: 'Test Team Project::Test Team Project::Operational Analysis::OA Requirements::The system will have a System administrator'.



Capella and Knowledge manager

Knowledge-based requirements writing

05 Reasoning

A combination of rules, tasks and groups to infer information from valuable assets

04 Formalization

Representation of assets semantic through SRL – System Representation Language



01

Vocabulary

Controlled Organizational and Project Vocabulary for a common understanding among stakeholders

02

SCM/Architectures

Recreate and capture the system architectures represented in views and models. Stablish relationships among system and system elements

03

Patterns

Represent requirements similarities and enable formal representation, automatic recognition and aid authors

Capella models as Knowledge Base

The screenshot shows the KNOWLEDGE Manager interface with the SRL Content Selection dialog box open. The dialog box contains a table of artifact types and their selection options.

Artifact type	Indexat	As Artifi	Show in m	Is textual a	Include pr	Include reli	Include sut
Capella Model	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Actor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SystemFunction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Capability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mission	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FunctionOutputPort	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FunctionInputPort	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ExchangeCategory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LogicalComponent	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LogicalFunction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ComponentPort	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
InitialPseudoState	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ChoicePseudoState	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Total number of artifact types: 39

Buttons: Export configurations, OK, Cancel

Capella models as Knowledge Base

The screenshot shows the Capella Knowledge Manager interface. The top menu includes File, Terminology, Conceptual Model, Patterns, Formalization, Inference, Configuration management, Extensibility, Assets store, and Settings. The main toolbar contains various icons for search, import/export, and cluster management.

The interface is divided into several sections:

- Searching fields:** Includes a search bar for clusters, an identifier field (set to 0), a kM Code field (set to 0), and a checkbox for "Clusters with terms".
- Clusters:** A tree view on the left shows a hierarchy of clusters. The "«MODE»" cluster is selected and highlighted in blue.
- Cluster details:** On the right, the selected cluster is "«MODE»". There is a checkbox for "Include terms included in child relationship".
- Terms:** A table lists 27 terms associated with the selected cluster. Each row includes a term name, a term tag (NOUN), the cluster name («MODE»), the relationship type (< No «Relationship type» >), and the language (English (United Kingdom)).

Term	Term Tag	Cluster	Relationship type	Language
Seat tv - any other service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - audio announcement running	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - displaying vod user interface	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - end-user service running	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - gaming service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - home page displayed	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - imposed video paused	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - imposed video running	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - interrupted	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - moving-map service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - news service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - vod movie paused	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - vod movie running	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - vod paused	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - vod playing	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Seat tv - vod service activated	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Software upgrade	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Start up	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)
Sustaining	NOUN	«MODE»	< No «Relationship type» >	English (United Kingdom)

182 clusters

27 term(s)

Ready

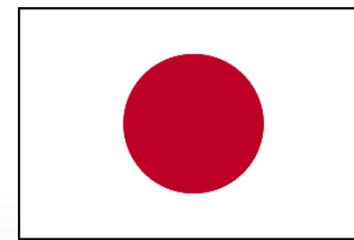
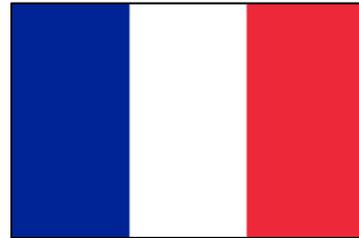
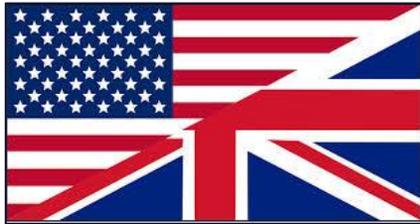
Connected to 'D:\TRC\WEBINARS\2020\20200616 - RAT for Capella\INCOSE Rules for RAT for Capella Webinar.mdb'



**RAT for
Capella
Live demo**

The TRC Quality Suite: supported languages

- The TRC Quality Suite is highly dependent of the language of the requirements
- Languages supported so far:



The screenshot displays the Capella software interface. On the left, the 'Capella Project Explorer' shows a tree view of the project structure, including 'Operational Analysis' and 'System Analysis' views. The main workspace shows a 'Workflow of Test Team Project' diagram with steps like 'Operational Analysis', 'System Analysis', and 'Logical Architecture'. A context menu is open over the diagram, listing various actions such as 'Cut', 'Copy', 'Paste', 'Delete', 'Move Up', 'Sort Content', 'Undo Model Edition', and 'RAT'. The 'RAT' option is highlighted in blue. A large blue play button icon is overlaid on the center of the screenshot.



Next webinar

- **A comprehensive guide on tailoring the INCOSE GfWR (Guide for Writing Requirements)**
 - While the guide is a worldwide broadly used and recognized reference for requirement engineers, its implementation still poses many challenges. For example, the fact that requirements can be expressed at different levels of abstraction, the components addressed by those requirements are not equally critical and a requirement document might contain requirements of different types or levels. Additionally, because the guide is extremely complete, the implementation of these rules in a single step turns out to be very complex, especially when considering the different skills of different team members, not to mention the amount of effort for the manual inspection of such a large number of quality rules.
 - This webinar describes a solution for all these challenges, including, among others, the use of a set of tools to automatize some of the most tedious tasks

Dates:

- June 25th 2020

Where:

- Only for INCOSE members





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