

## **Requirements ranking (Enforced)**

QualityIndicators	Value
Copying/pasting part of GRL diagrams across diagrams in the same model	72
Copying/pasting part of UCM diagrams across diagrams in the same model	71
Copying/pasting part of UCM diagrams across models	67
A hierarchical navigation view (where are we in the tree of maps/submaps)	67
Copying/pasting part of GRL diagrams (images) to external tools such as Word without using the export wizard.	64
Copying/pasting part of UCM diagrams (images) to external tools such as Word without using the export wizard.	63
Movable labels for GRL contribution labels	63
Exporting UCM scenarios to UML sequence diagrams	62
Exporting UCM models to UML activity diagrams	61
Coverage analysis of multiple scenarios	61
The duplication of GRL diagrams	61
Exporting UCM models to UML use case diagrams	60
Collapsing GRL actors and their content	59
Usable auto-layout of GRL diagrams	59
Displaying the result of the traversal of multiple scenarios	58
Copying/pasting part of GRL diagrams across models	58
Movable labels for GRL satisfaction labels	58
The duplication of UCM diagrams	58
GRL numerical contributions (beyond current help, make, hurt ...)	57
User-defined links between GRL and UCM elements	57
Collapsing UCM components and their content	57
Cropping images to eliminate surrounding white space during export	56
Exporting URN model information to HTML (in addition of images)	56
Collapse/expand all in the Outline view	56
GRL strategies integrated with UCM scenario definitions	55
Loading UCM models from old UCMNav files	54
Exporting UCM scenarios to XML	54
Reference to "parent" component in UCM plug-ins	54
Multi-line labels in UCM responsibilities and components	54
Closable panels/tabs for URN models with a large number of diagrams	54
jUCMNav's documentation shall cover GRL model editing	53
Exporting URN reports in MS Word (e.g. RTF)	53
Exporting URN reports to one flat HTML file (instead of current multi-file, hierarchical HTML documents)	53
Meta-information (tagged values) attached to URN elements	53
Performance annotations	53
Showing GRL conflict resolutions and other decisions in the Problems view	53
Viewing only the result of a UCM scenario traversal	53
jUCMNav's documentation shall cover GRL strategy usage	52
Exporting GRL strategies to HTML	52
jUCMNav's Web site shall include examples (GRL with strategies, UCM with scenarios, models integrating GRL and UCM)	51
Exporting URN reports in PS/PDF	51
Saving URN models to metamodel-independent XML-based file format	51

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QualityIndicators	Value
UCM exception mechanism (definitions and handling)	51
Loading URN models from metamodel-independent XML-based file format	50
Exporting UCM scenarios to Message Sequence Charts	50
Indicating order of plug-in traversal where one or more plug-ins of a stub are traversed multiple times during the execution of one scenario	50
Local variables for plug-ins in scenario definitions	50
Reorder the GRL diagrams/UCM maps (in the Outline and in the multipage editor)	50
Usable auto-layout of UCM diagrams	50
Exporting URN images in SVG format (Scalable Vector Graphics)	49
UCM component stacks	49
Extracting a stub with a plug-in from a selection of UCM elements (refactoring)	49
The inclusion of a textual use case editor	48
Movable labels for UCM stub IN/OUT segments	48
Exporting URN diagrams in PS/PDF	47
Exporting UCM scenarios to DOORS (in DXL)	47
Local variables for components in scenario definitions	47
UCM events on start points, waiting places, and timers	47
UCM stub references (separate from stub definition)	47
Visual user-defined comments (post notes) for UCM diagrams	47
Adding "Negate all others" (else) to conditions in UCM OR-forks and stubs	47
The application of UCM reengineering patterns	46
Time concept in URN	46
UCM dynamic components (slots) and dynamic responsibilities	46
UCM scenario/map flattening (expand stubs)	46
Optional rectangles around images during export	45
UCM empty responsibilities	45
Semantic variations for UCM traversal (AND-joins, timers, waiting places, ...)	44
Interactive selection (by user) of alternatives in non-deterministic locations when executing a UCM scenario	43
Merging URN models	42
A component tree view (showing the containment relationships in components)	42
Highlighting of start/end points and in/out-paths when moving from stub to plug-in map and back	42
Importing UCM models from ASP.NET code	41
String data type for scenatio definitions	41
Sorting of diagrams in the Outline view	41
Diff of URN models (beyond Eclipse's XML diff)	40
jUCMNav shall include help for all its wizards	40
Aspect-oriented concepts and notation for UCM	40
Distinguishing UCM plug-in maps that are the same instance from those that are different instances	40
Exporting UCM models to BPEL (Business Process Execution Language)	39
Automated combination and execution of each scenario in group A with each scenario in group B (or potentially, each scenario in the model with all other scenarios)	39
Aspect-oriented concepts and notation for GRL	39
The combined deletion of definition and of all references of a UCM component, UCM responsibility, GRL actor, GRL intentional element	39

## **Requirements ranking (Enforced)**

QualityIndicators	Value
URN hyperlinks (to/from URLs)	38
The selectable visualization of GRL graphical and textual contribution/satisfaction labels globally	38
The use of resizable fonts for URN models	38
jUCMNav's Web site shall include training material (exercises and solutions) for creating and analyzing URN models	37
Groups of stubs which share the same plug-in instance and optional merging of plug-in bindings for those stubs	37
Taking the direction of the UCM path into account when adding a branch to a stub or a fork	37
Exporting UCM models to BPMN (Business Process Modeling Notation)	36
UCM component classes and instances	36
UML class diagrams for describing domain models	35
The automatic deletion of unused UCM components and responsibilities	35
Adding labels (yellow triangle) to GRL elements when URN links are defined	35
Importing GRL models from the OpenOME tool (OME uses the same file format)	34
Importing UCM models from .NET code	34
Exporting UCM to Fit Nesse test goals	34
UCM component parameterization in stubs/plugin-ins	34
Arrow to empty-point transformation in UCM diagrams	34
Exporting UCM models to CSM (Core Scenario Model)	33
Code completion for UCM responsibility/condition code editor	33
Responsibility to stub transformation in UCM diagrams	33
Definition of root map for a feature/use case plus automatic listing of all plug-in maps reached from the defined root map	32
The generalization and refactoring of the model import API	31
Exporting UCM models to TTCN-3 test cases	31
GRL dependencies between actors - expanding/hiding actor details	31
Centered labels in GRL intentional elements	31
A central repository with locking mechanism for concurrent development of URN models	30
A scripting language for batch execution and tool interworking	30
Sorting of diagrams in the Strategies/Scenarios view	30
Importing UCM models from the Compact Trace Format (CTF)	27
Collapse/expand all in the Strategies/Scenarios view	27
Changing group for a strategy/scenario	24
Links to an Architecture Description Language (ADL)	23
The automatic identification of top-level UCM maps	21