

## **Requirements ranking comparison (Free)**

Rank	indicator_ID	QualityIndicators	Value
1	192	jUCMNav's Web site shall include examples (GRL with strategies, UCM with scenarios, models integrating GRL and UCM)	75
2	180	Distinguishing UCM plug-in maps that are the same instance from those that are different instances	70
3	184	GRL dependencies between actors - expanding/hiding actor details	68
4	175	User-defined links between GRL and UCM elements	68
5	163	Loading URN models from metamodel-independent XML-based file format	67
6	141	Exporting UCM models to UML use case diagrams	67
7	143	Exporting UCM scenarios to UML sequence diagrams	67
8	183	Reference to "parent" component in UCM plug-ins	67
9	162	Saving URN models to metamodel-independent XML-based file format	66
10	149	Exporting UCM models to BPMN (Business Process Modeling Notation)	66
11	146	Exporting UCM scenarios to XML	66
12	84	Copying/pasting part of GRL diagrams across diagrams in the same model	66
13	83	Copying/pasting part of UCM diagrams across diagrams in the same model	66
14	193	jUCMNav's Web site shall include training material (exercises and solutions) for creating and analyzing URN models	65
15	122	Semantic variations for UCM traversal (AND-joins, timers, waiting places, ...)	65
16	179	UCM component classes and instances	65
17	103	Collapsing GRL actors and their content	64
18	145	Exporting UCM scenarios to DOORS (in DXL)	63
19	176	UCM exception mechanism (definitions and handling)	63
20	85	Copying/pasting part of UCM diagrams across models	63
21	79	Movable labels for GRL contribution labels	63
22	156	Exporting URN images in SVG format (Scalable Vector Graphics)	62
23	142	Exporting UCM models to UML activity diagrams	62
24	144	Exporting UCM scenarios to Message Sequence Charts	62
25	169	Meta-information (tagged values) attached to URN elements	62
26	106	A hierarchical navigation view (where are we in the tree of maps/submaps)	62
27	150	Exporting UCM models to BPEL (Business Process Execution Language)	61
28	125	GRL strategies integrated with UCM scenario definitions	61
29	128	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	61
30	182	Groups of stubs which share the same plug-in instance and optional merging of plug-in bindings for those stubs	61
31	187	Aspect-oriented concepts and notation for UCM	60
32	95	Extracting a stub with a plug-in from a selection of UCM elements (refactoring)	60
33	99	Reorder the GRL diagrams/UCM maps (in the Outline and in the multipage editor)	60
34	114	Definition of root map for a feature/use case plus automatic listing of all plug-in maps reached from the defined root map	60
35	118	The automatic identification of top-level UCM maps	60
36	126	GRL numerical contributions (beyond current help, make, hurt ...)	59
37	157	Exporting URN diagrams in PS/PDF	58
38	80	Movable labels for GRL satisfaction labels	58
39	104	Collapsing UCM components and their content	58
40	134	Merging URN models	57

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Rank	indicator_ID	QualityIndicators	Value
41	136	The inclusion of a textual use case editor	57
42	155	Optional rectangles around images during export	57
43	188	Aspect-oriented concepts and notation for GRL	57
44	186	UML class diagrams for describing domain models	57
45	82	Multi-line labels in UCM responsibilities and components	57
46	121	Highlighting of start/end points and in/out-paths when moving from stub to plug-in map and back	57
47	191	jUCMNav's documentation shall cover GRL strategy usage	56
48	153	The application of UCM reengineering patterns	56
49	131	Local variables for components in scenario definitions	56
50	181	UCM component parameterization in stubs/plug-ins	56
51	174	UCM events on start points, waiting places, and timers	56
52	185	Visual user-defined comments (post notes) for UCM diagrams	56
53	178	Time concept in URN	55
54	88	Copying/pasting part of GRL diagrams (images) to external tools such as Word without using the export wizard.	55
55	87	Copying/pasting part of UCM diagrams (images) to external tools such as Word without using the export wizard.	55
56	117	Adding labels (yellow triangle) to GRL elements when URN links are defined	55
57	159	Exporting URN reports to one flat HTML file (instead of current multi-file, hierarchical HTML documents)	54
58	116	Centered labels in GRL intentional elements	54
59	120	Closable panels/tabs for URN models with a large number of diagrams	54
60	108	Showing GRL conflict resolutions and other decisions in the Problems view	54
61	102	UCM scenario/map flattening (expand stubs)	54
62	147	Exporting UCM to Fit Nesse test goals	53
63	119	The selectable visualization of GRL graphical and textual contribution/satisfaction labels globally	53
64	101	Usable auto-layout of GRL diagrams	53
65	100	Usable auto-layout of UCM diagrams	53
66	190	jUCMNav's documentation shall cover GRL model editing	52
67	158	Exporting URN model information to HTML (in addition of images)	52
68	86	Copying/pasting part of GRL diagrams across models	52
69	81	Movable labels for UCM stub IN/OUT segments	52
70	113	Changing group for a strategy/scenario	52
71	115	The use of resizable fonts for URN models	52
72	148	Exporting GRL strategies to HTML	51
73	127	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)	51
74	160	Exporting URN reports in MS Word (e.g. RTF)	50
75	161	Exporting URN reports in PS/PDF	50
76	123	Displaying the result of the traversal of multiple scenarios	50
77	107	A component tree view (showing the containment relationships in components)	50
78	139	A central repository with locking mechanism for concurrent development of URN models	49
79	152	Exporting UCM models to TTCN-3 test cases	49
80	124	Coverage analysis of multiple scenarios	49
81	92	The combined deletion of definition and of all references of a UCM component, UCM responsibility, GRL actor, GRL	49

## **Requirements ranking comparison (Free)**

Rank	indicator_ID	QualityIndicators	Value
		intentional element	
82	91	The automatic deletion of unused UCM components and responsibilities	48
83	90	The duplication of GRL diagrams	48
84	89	The duplication of UCM diagrams	48
85	135	The generalization and refactoring of the model import API	47
86	154	Cropping images to eliminate surrounding white space during export	47
87	132	Local variables for plug-ins in scenario definitions	47
88	170	Performance annotations	47
89	177	UCM stub references (separate from stub definition)	46
90	130	Interactive selection (by user) of alternatives in non-deterministic locations when executing a UCM scenario	45
91	129	String data type for scenatio definitions	45
92	173	UCM component stacks	45
93	93	Adding "Negate all others" (else) to conditions in UCM OR-forks and stubs	45
94	137	URN hyperlinks (to/from URLs)	44
95	94	Code completion for UCM responsibility/condition code editor	44
96	112	Collapse/expand all in the Strategies/Scenarios view	44
97	140	Links to an Architecture Description Language (ADL)	43
98	189	jUCMNav shall include help for all its wizards	43
99	97	Responsibility to stub transformation in UCM diagrams	43
100	165	Importing GRL models from the OpenOME tool (OME uses the same file format)	42
101	133	Diff of URN models (beyond Eclipse's XML diff)	41
102	151	Exporting UCM models to CSM (Core Scenario Model)	41
103	111	Sorting of diagrams in the Strategies/Scenarios view	41
104	110	Collapse/expand all in the Outline view	40
105	171	UCM dynamic components (slots) and dynamic responsibilities	39
106	105	Viewing only the result of a UCM scenario traversal	39
107	168	Importing UCM models from .NET code	38
108	109	Sorting of diagrams in the Outline view	38
109	98	Taking the direction of the UCM path into account when adding a branch to a stub or a fork	37
110	138	A scripting language for batch execution and tool interworking	36
111	167	Importing UCM models from ASP.NET code	36
112	172	UCM empty responsibilities	35
113	96	Arrow to empty-point transformation in UCM diagrams	34
114	164	Loading UCM models from old UCMNav files	33
115	166	Importing UCM models from the Compact Trace Format (CTF)	23
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