

IBM® Rational® DOORS® Requirements Management Framework Add-on (RMF) 6.1.0.6

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Some previous versions of this product were delivered by Telelogic as an Asset named DOORS T-REK.

Any previous installed version (either of DOORS T-REK or RMF) must be uninstalled before installing IBM® Rational® DOORS® Requirements Management Framework Add-on 6.1.0.6.

Whenever RCM was used, please remove all the RCM triggers before uninstalling DOORS T-REK.

The FLEXLM feature required to execute IRDRMFAO is different from the DOORS T-REK license feature. The new feature is “IRDRMFAO” (instead of “DTREK”).

Fixes implemented in RMF 6.1.0.6

Component	APAR	Description
Dashboard		The "Configure dashboard" command now checks if the modules that have specific metrics still exists and displays the related metrics with a specific "warning" icon.
DOC	PI19805	The script "Generate history of document" may take an abnormal amount of time to generate the history of the modifications of the modules of a document when the document has many versions and modules.
		Move the code setting the attribute "IE DOC Version" into a separate non encrypted file (addins\plm\usercallout\docversion.inc) to enable modifying it or calling it before baselining a document.
		Display a splash window asking the user to please wait while opening the "Manage documents" window (and also for the "Manage RCM" and "Manage CR list" windows).
		Enable to display a user-defined contextual menu in the listview of the "baseline" child window of the "manage documents" window.
Exchange		OLE are not exported in separate files, but instead in the XML files, if the RTF syntax is incorrect, resulting in a very slow import.
Manage Objects		If the user clicks the "Select CR" button and then closes the current module by setting one of its CR to the 'completed' status, then a DXL error occurs when closing the "Select CR" window.
		Enable to identify headings as RMF objects. To do so, please run the "Configure Module" command and enable the option "Headings can be RMF Objects".
		If the user clicks the "Select CR" button and then set a CR that impacts the current module to the 'completed' status, then RCM automatically closes the current module, which leads to a DXL error when closing the "Select CR" window.

Miscellaneous		The "RMF > Select default linkset" command now opens up faster in big projects and also makes it easier to find the right link modules by organizing the link modules in a tree instead of a list.
PFM		When creating a new configuration set by duplicating an existing configuration, the parameters values are correctly duplicated at first but they are not recorded.
		In the PFM browser, the property "Selected ?" is always equal to "No".
RCM		Using DOORS 9.3 and higher, the DXL attributes "RCM CR Name" and "RCM CR Description" of a new version of a controlled object are not updated automatically. The user needs to press the F5 button or close and reopen the module to get it updated. This issue has been fixed.
		The RCM check may recreate "follows" links mistakenly. This happens both when creating a new version N (the link toward version N-2 is sometimes recreated) and also when duplicating the version N (the link from the new object toward the version N-1 is always recreated).
		The RCM check may report that a deleted "follows" link has been recreated whereas the link was not deleted. This occurs when a working object is deleted and then recreated.
		The RCM check should not report the error 'Composite Object modification' (a descendant has been moved) when an object without descendant has an empty value for the attribute "RCM Object Structure".
		The RCM custom filter provided as an example (working in review) does not filter out older versions in reference.
		The "manage RCM" window may also list the controlled modules of another project located in the same folder and with a name starting identically.
		In the "Manage RCM" window, when scrolling the items in the treeview, keep the focus there (instead of switching to the listview when the controlled module is selected).
		Make sure that the RCM workspace Window is big enough to display all its content (it can be too small depending on Windows display settings), and enable to resize it.
		Enable to use the RCM workspace window on a baseline and a non-controlled module (only to select a DOC version in that case).
		A DXL error can occur when changing the status of a CR if an object impacted has several impacts links with different CRs.
WEXP		Export DOORS tables faster (twice as fast).
		DOORS tables with irregularly sized cells are not rendered as in DOORS (borders are not aligned the same way on the rows with irregularly sized cells).
		Hyperlinks to bookmarks can be exported back again (regression introduced in RMF 6.1.0.3) (using the syntax [text of the hyperlink #bookmarkname]).
		WEXP generates an empty paragraph at the end of the document when exporting an object containing one single OLE and some text before it.
Word import macros		When converting a table into OLE, the paragraph containing the OLE should keep the same style as the paragraph containing the table.

Fixes implemented in RMF 6.1.0.5

Component	APAR	Description
Create/Tag a RMF Module		The module type of a module should be set even if an error occurred during the synchronization.
		A DXL error occurs during the synchronization if the code of a DXL attribute to be synchronized is invalid.
		When synchronizing a module, if its attribute "IE Mod Type" is empty then the user should be prompted whether the module should be synchronized anyway (instead of aborting the synchronization). And if its module type is different from the selected template, an error message should be displayed explaining that the module will not be synchronized.
		When creating (or tagging) a module, do not force the value of the module attributes that do not have a specific value in the template. So that whenever their default value is modified in the template, their value changes in the modules after synchronization.
		Added a new parameter to the API function API_CreateTagModule() to enable discarding any warning message while synchronizing a module with a template. Furthermore, if the messages are displayed, clicking on the button "Don't display anymore" is now effective. The warning messages are now issued into the log too.
		When creating a new module from a template, set the module up for shareable edit mode if the template is.
	PI14722	RMF does not propagate the changes made to the code of a DXL attribute when synchronizing a module with its template.
		The synchronization of modules now checks filters in a more resilient way when copying a view (not based on its description any longer).
Dashboard		Even if a metric (or alarm) has been renamed, the view configuration window is now able to recognize a column displaying that metric (or alarm).
		The window allowing to display metrics in a view now recognizes all the types of columns (including the 2 new types of columns introduced in DOORS 9.6) when parsing a view, and lets the existing columns unchanged (width, justification, title). Last it no longer displays the message "The modifications done on the current view will be lost" needlessly.
Data model		Some views of the generic datamodel do not display incoming links unless the source module is already open.
	PI13679	The files showInlinks.inc and showOutlinks.inc that can be used to design layout DXL columns have a flaw: the text of the descendants of the linked objects is sometimes not displayed.
		Add a new column "Link indicator" (only displayed in DOORS 9.6) in the view "40. Link info" of the generic datamodel templates.

DOC	PI07993	An error occurs when clicking the « Browse » button and then selecting the same document index module in the « manage documents » window.
		The modify command has a flaw. If a module is added to a document, its checksum is not set which results in an error message the next time the document index is opened.
		When DOC creates a baseline of the document index (automatically to enhance performance), display a warning message to let the user know that a baseline is being created.
	PI09237	DOC should not open all the modules of a document when generating only some of them.
		In the "generate" window, the log message indicating whether the generation context has been saved or not is not accurate when the selected version of the document is a baseline.
		Exporting from DOC using a WEXP server results in a DXL error with RMF 6.1.0.3 and 6.1.0.4.
Exchange		Exchange now exports filters in such a way that it can be imported very reliably. Only the comment used to be exported. Now a DXL script is generated as well. RMF, starting from version 6.1.0.5, uses this script to recreate the filter. The description of the filter is still recorded for older versions of RMF.
		Minor change in the User Interface of the command "export module content" so that if attributes and views are exported from a view, then only the objects from the display set get exported by default.
		When exporting the content of a module using a filtered view, Exchange exports the objects that are not displayed with the text "Hidden text" only when it is really necessary to preserve the object hierarchy. Exchange used to do that when the option "show ancestors" was not checked even if the object hierarchy was valid.
		Let the user know when they are about to import some modules that have already been imported elsewhere, so they can choose either to continue (creating new modules) or update the modules previously imported.
kitchen	PI07171	<p>The scripts generated by the RMF kitchen command "Save view as DXL" have a flaw on the creation of the view filter. The creation of the filter may fail with the following DXL error: R-E- DXL: null Filter parameter was passed into argument position 2 -I- DXL: execution halted.</p> <p>This errors can occur in various conditions:</p> <ul style="list-style-type: none"> - if the filter is complex - if the kitchen command "Save view as DXL" has been run with a DOORS client session configured in another language than English - if the attribute(s) or column(s) referred by the filter contain(s) braces. <p>The new implementation solves all those issues.</p>
		The "Extended copy objects" command creates a DXL error line 667 when run in DOORS 9.3 and higher.

Manage Objects		Add the new usercallout function UC_canClickButtonManageObject in addins\irdrmfao\startup\usercallout\usercallouts.inc allowing to add some new checks or override the default checks defining whether a given button of the UI should be enabled.
Miscellaneous		In some occasions, the DXL error "sdo_startup.inc:328> unassigned variable iLevel" can occur.
		Incompatibility issues with DOORS 9.5.2.1 resulting in various DXL errors.
PFM		The layout of the graphical elements of the "PFM info" window is incorrect and the height of the dialog box should not change when clicking the "+" or "-" buttons.
RCM	PI09040	The RCM check should not repair a composite object in reference whose content has not changed since the latest baseline. If so, it is better to assume that it is the value of the attribute "RCM object structure" that should be updated.
		Make it possible to prevent the RCM check from repairing the composite objects that are inconsistent by setting the new parameter RCM_REPAIR_COMPOSITE_OBJECTS to false in the file startup\usercallout\rcmusercallouts.inc.
	PI09624	Make it possible to have "heading" descendants objects in a controlled RMF object. This was no longer possible since RMF 6.0.0.4 and as a consequence the RCM check would delete the descendants objects of such a composite object.
		Enable to use an existing working CR to set modules under control and to leave the CR in the "working" status.
	PI14905	A DXL error occurs when setting several modules under RCM control with the same CR whenever the RCM project option "list of impacted modules" is set to "mandatory".
		Users should not be able to select a CR that is not assigned to them.
		Miscellaneous improvements of the "Manage CR" interface: 1) all the commands now take into account both checked and selected Change Requests to avoid confusion, 2) some commands can be performed on a set of Change Requests (Status change, assign CR, set impacted modules, ...), 3) all the commands are now displayed in a menu instead of buttons (the floating menu remains), 4) the advanced filtering options are hidden by default.
		The RCM check now always recreates a "follows" link whenever it is deleted. Previously the RCM check used to recreate it only on objects in reference if the option "Repair out-link of an object in reference" was enabled.
		No longer display the message telling that the module should be open in exclusive edit so that the RCM check can be run when the module has been closed without saving (using the "RCM > Close" command).

WEXP		WEXP throws an error when setting an empty value to a property of type "Date".
	PI10469	In some occasions, WEXP does not export some module attributes into the document properties.
	PI10991	While exporting an object using an object template, if the content of the clipboard is emptied by another application, then WEXP may delete some parts of the object template.
	PI11101	Errors can occur after exporting an OLE of type Word that contains several tables if the option "Export isolated OLE objects as Inline data" is enabled and the option "Scale views (autofit behavior)" is set to [Autofit table to width of page].
		WEXP fails to open a Word template whose pathname contains / instead of \.
	PI11486	Unregistered OLE can sometimes be exported incorrectly (converted into binary like characters). They are now exported as pictures.
		Word 2013 may crash when exporting many objects in a row using object templates.
	PI11610	When inserting a MS Word OLE as "inline data" (which means expanding its content in the generated document) the formatting of some pieces of text may change. This occurs when some styles used in the OLE already exist in the generated document but with a different formatting.
		The temporary bookmark "thistext" may remain in generated document.
		When a table header has several rows, only the first is greyed out.
		Using Word 2013, DOORS tables are sometimes not autofit to their content properly.
		Using Word 2007 and higher, tables created from views are sometimes not autofit to the page width properly as they remain larger than the page width.
		WEXP may sometimes not export a symbol. Only the first symbol is not exported. This happens if the symbol is also an ASCII character.
		Enable to export the value of a WEXP option into a property of the document. For instance, add the line below in the module attribute "WEXP Document Properties" to export the filter used for the export into a property named WEXP_filter: WEXP_OPTION(Export filter)->WEXP_filter Please refer to the WEXP reference manual to find the name of all the WEXP options.
		OLE are not exported if the RTF syntax is not fully enforced though the OLE is visible in DOORS and exported successfully with the standard export to MS Word.

	PI15384	An error may occur when exporting several inserted views at the same bookmark and with the table format. The content of a table may not be exported.
		Let a command named "View WEXP jobs" be available for users who are not WEXP spooler administrators in order to check the status of their export jobs, download the documents generated and restart a job if needed.
		The WEXP server now spawns the export processes in batch mode to prevent any interaction (confirmation, error messages) from blocking the export.

Fixes implemented in RMF 6.1.0.4

Component	APAR	Description
Configure Module	PM96990	The command "Configure Module" generates a DXL error if the Project Profile contains duplicate Object Types.
Create/Tag a RMF Module		Views are incorrectly synchronized when they contain a filter that is not turned ON: the filter is not synchronized. As a consequence such a view is still reported as modified even after the synchronization.
Dashboard		Improve performance by reducing the number of writes into the log file and make it possible not to generate a log file.
	PM97074	The DXL error below may occur while updating a dashboard: -R-W- DXL: <addins/irdrmfao/includes/filter.inc:1008> null value passed to DXL command (current Object)
	PM97896	Some rules limiting the scope of the collection of the metrics are not properly processed. Besides, if the root folder is modified by selecting a sub-folder, then the next update is incorrect (no object are visible).
		The MS Excel application is sometimes not closed down at the end of an export or after configuring the export even though no MS Excel window is visible.
DOC		DOORS may crash while creating a baseline of a document if DOC is set up to accept working object versions automatically and if there is a RMF object that is working and whose PUID is not set.
		Make the document index configuration more resilient to changes such as renaming or moving the folder chosen to hold the definition of the baselinesets managed by DOC.
Exchange		The command "Export > baseline set" should enable to export the baselinesets located under the folder "Config".
	PM97513	Exchange fails to import a view whose filter includes a rule based on an multi-valued enumerated attribute using the conditions "includes" or "excludes". It also fails to import a filter based on the rule "contains" (eg. <attribute> contains '<value>') if the export has been performed with a DOORS session configured in a different language than English.
	PI04714	When exporting modules with a filtered export view with the option "show ancestors" enabled, the hidden objects should not be exported.
	PI04933	A DXL error occurs during the update of an existing enumerated attribute type if one of its label is empty.
		Column title may not be correctly imported because "\t" is converted into a tab. As a consequence the title "_:join(\t)" becomes "_:join()".
Manage Objects		An error error "identobj.inc:1763> null attribute type parameter was passed into argument position 1" may occur when opening a module if the "Manage Objects" window is open.

		The button "Duplicate" has a flaw when used on RCM controlled modules. The error occurs when duplicating a version of controlled object that is not the last version. In certain circumstances, the copy is created but is not modified accordingly (to set the attributes "IE PUID", "RCM Version", ...) and the next version of the original get modified instead (if the user has the "RCM Admin" role).
Migration Rules	PM97077	The migration rule "TAGOBJ" generated the DXL error below when tagging a set of objects finishing with a DOORS table: <addins/irdrmfao/includes/defsmig.inc:1325> Les objets sélectionnés ne sont pas apparentés
RCM		Enable an assignee to change the status of a Change Request from "to be reviewed" to "working".
	PM92322	On some rare objects whose RTF content is not compliant to the standard, when creating a new deleted version of such object, the beginning of the text of the new version may get duplicated. This issue only occurs in RMF 6.1.0.3.
		In the suspect links management window, the command "select all" only selects the current link actually (affects RMF 6.1.0.2 and 6.1.0.3).
		The suspect management GUI sometimes display the msg "the suspicion was cleared on " followed by the date of creation of the link.
	PM96842	If two different objects with the same PUID and version both have a suspect link, then the suspect management GUI only displays one.
	PM96699	The suspect management GUI should disable the command duplicate when the selected new version already has a link, and should offer a new command "Select links manually duplicated" to highlight those links in the treeview.
		Under some circumstances the RCM suspect UI may display the text of an object incorrectly if the module is not visible.
	PM96993	When a new deleted version is created, the text of this version is strikedthrough correctly now, preserving symbols.
		The RCM suspect link user interface now enables to setup which attribute will be displayed when displaying another link (see new submenu "When displaying another link" in the menu "View"). 3 choices are offered: either keep the same attribute displayed, display Object Text or display one of the attribute modified in the selected proposed new target (preferably Object Text).
	PM97894	Switching from one suspect link to another in the RCM suspect links User Interface can take some time if the default view of the source module of the link is complex. Loading the standard view instead makes the processing faster.
		Make it possible to create additional DXL attributes in the controlled modules by editing the file addins\irdrmfao\startup\usercallout\rcmusercallouts.inc.

		Make it possible to edit the rationale of an object directly in the controlled module by providing a new object attribute "RCM Justification" and keeping its value in synch with the same attribute in the CR module (when synchronizing the CR).
	PM97894	Modules are opened with the standard view instead of the default view in the suspect link management for performance reasons.
	PM98307	In shareable edit mode, when clicking the button "Cancel Working" (in the Object manager user interface), the object is soft deleted (as it cannot be hard deleted in that mode). The outgoing links of the object should be deleted, in particular the "follows" link.
		Enable to remove non semantic links while creating a new version by defining a new attribute « IE Link is volatile » in the project profile (this new attribute is automatically created when running the command "RMF > Configure a RMF Project" and then clicking the "OK" button). Thus a type of link that is not semantic can now be non-volatile.
		Make it possible to use the character '.' when setting a custom version number by choosing a different character used as branch separator in the usercallout fonction char RCM_UC_getBranchSeparator (defined in addins\irdrmfao\startup\usercallouts\rcmusercallout.inc)
		The usercallout functions RCM_UC_createObject, RCM_UC_modifyObject and RCM_UC_deleteObject are now called at the very end of the creation process so that all the attributes of the new object are set at that time.
		The impacted modules and assignees of a CR are recorded in a new format to specify the database they belong to. Thus a CR can be used in a database different from the one in which it has been created. The previous format is still supported for backward compatibility and an automatic conversion is performed under some conditions.
		Enable not to display the RCM control box window (allowing to apply the RCM filters) automatically when opening a controlled module. To do so, a new command ("Show control box automatically") is available in the "RMF > RCM" submenu. It is checked by default. Each user can uncheck it (independently from the other users) so that the control box is no longer displayed automatically when opening a controlled module.
		Enable to let the RCM filter "Conf Reference" display working objects or not. By default, working objects are displayed. To hide them, please edit the value of the constant RCM_FILTER_CONF_REFERENCE_DISPLAY_WORKING in addins\irdrmfao\startup\usercallouts\rcmusercallout.inc
		Enable to define additional custom RCM filters by editing the new file addins\irdrmfao\plm\usercallout\rcmcustomfilters.inc
WEXP	PM91676	When applying a filter "RCM working" or "RCM reference", objects that should not be exported are sometimes exported.

	PM92203	Error "undeclared variable richTextWithOleNoCache" when launching WEXP in RMF 6.1.0.3 using DOORS 9.3.0.0 up to 9.3.0.4.
	PM92557	In RMF 6.1.0.3, the export is slower when the option "Treat line breaks in Object Text as new paragraphs" is set to [When required].
	PM93288	Using Word 2007 or 2010, tables are sometimes not autofit to the page width properly.
	PM93928	Using DOORS 9.5, the line breaks are always exported as paragraph breaks even when the option "Treat line breaks in Object Text as new paragraphs" is set to [When Required].
	PM94421	MS Word may hang while inserting a view as a RTF table containing some text with bullets (affects RMF 6.1.0.2 and 6.1.0.3)
		Ability to export a document with the file extension .docx or .docm and select a template with the file extension .dotx or .dotm.
		Ability to use a bookmark several times, only for exporting inserted views.
		Support of Office 2013
		Consider an OLE as isolated even if there are empty lines or space characters before and after it. (several features are restricted to isolated OLEs).
		Enable to generate a caption for any object (not just objects containing OLE) as before RMF 6.1.0.3.
	PM99743	Using Word 2010, the style applied to OLE may not be as expected.
	PI047046	The "join(\t)" tag in a column title is not handled properly if the column is empty. As a consequence, the text is not exported with the expected style.
	PI06799	WEXP may issue an error in the log file if the style "Normal" is missing in the Word template.
		WEXP fails to insert a sub-document with the error message "Unable to get path" in RMF 6.1.0.3.
		WEXP fails to insert a sub-document whose file extension is .docx or .docm.
		WEXP fails to create a sub-document with a UNC pathname.
		WEXP fails to export a sub-document in batch mode (with the error "Unable to get property ActiveDocument").
		WEXP does not generate revision marks for an attribute displayed in a column concatenated to the next column (using the "join" tag in the title of the column).
Word import macros		The conversion of tables into OLE does not preserve the styles of the cells when using Word 2007 or 2010.

Fixes implemented in RMF 6.1.0.3

Component	APAR	Description
Create/Tag a RMF Module		The synchronization of a module may hang while copying a view containing a very complex filter. This issue also exists in the command "RMF > Tools > Copy Views".
		The new function API_CreateTagModule is available in addins\irdrmfao\includes\api.inc and documented in the "RCM & PFM API" manual.
Dashboard		Enable to export the DXL based metrics (called "data").
		The exported Excel file is not closed (regression introduced in RMF 6.1.0.2).
DOC		A new script is provided to demonstrate how to generate all the master modules of a RMF/DOC document version by script (without using the 'manage documents' USER INTERFACE) (addins\irdrmfao\misc\wexp\docwexp.inc).
		The "Generate" window now opens faster as the master modules are not loaded beforehand anymore.
		In the "Generate" window, the WEXP parameters of a master module sometimes are not recorded. It can happen if slave modules are in the list of the modules of the document before the master module and if the modules after the master module are not checked in the list of master modules.
Exchange		The import of a view throws a DXL error (null Array) if there are no columns in the view.
lib_no_irdrmfao.zip		Prevent errors due to RMF persistent triggers when editing, without RMF, some modules created using RMF. (This is the purpose of the file lib_no_irdrmfao.zip which is available in /irdrmfao/misc/addins).
Miscellaneous		The command "Tools > Save link attribute" makes DOORS 9.2 crash if the attribute selected already exists but is not a module attribute. This issue does not exist with higher versions of DOORS.
		The script "show-inlinks.inc" may sometimes not display some incoming links. This script is useful to quickly create a layout column displaying some incoming links. It is available both in addins\irdrmfao\layout and irdrmfao\libviews\traceability_column.
RCM		New usercallout functions RCM_UC_createObject and RCM_UC_modifyObject called when creating a new controlled object or a new version of a controlled object respectively (defined in addins\irdrmfao\startup\usercallout\rcmusercallouts.inc).
		The usercallout function RCM_UC_deleteObject now preserves the OLE and rich text formatting when striking the text (and semantic attributes) of a new deleted version of a controlled object.
		Whenever a descendant of a composite object in reference has been moved, the RCM check now moves it back correctly. Since version 6.0.0.3, it used to moved it after the root object instead of

		below.
		In the "suspect links" management USER INTERFACE, the command "File > Display log" may display an empty list when the log file is too big.
		Two improvements on the management of suspect links : 1) keep the item selected in the explorer after running the command 'create new version' and warn the user that a new version is created only for the selected object. 2) record a message in the log when the modification are saved or rejected (by closing the module without saving).
		If the RCM check is run when opening a module (which occurs if the module was previously closed using the command RCM > Close), then a message « no modifications on the composite objects have been detected during the check » may be displayed even though the check actually repaired some composite objects.
WEXP		Faster export, especially during repagination, and the default values of the advanced parameters have changed to speed up the export.
		Change in the advanced options: the option "OLE objects are compatible with DOORS 5 data format" has been removed and it is now possible to specify the "number of objects after which to save Word document" (this option replaces the option "Save Word document during generation").
		It is now possible to place the tags <<OLE Object>> and <<Picture Object>> in a table within an object template.
		Some DOORS tables may sometimes not be autofit to the page width correctly.
		New object attribute "WEXP OLE as WMF Picture" enabling to export an isolated OLE contained in the "object text" as a WMF Picture on a per object basis. This attribute overrides the global options. It complements the already existing object attribute "WEXP OLE Inline".
		The export may stop at the very beginning if the "Protected View" security option is enabled in MS Word and the template is not on a local drive.
		If the option "Export isolated OLE objects as Inline data" is enabled then the tables contained in isolated MS Word OLEs are now autofit (using the setting for inserted views).
		Let the value of the attribute "WEXP Export Style" override the option "Export inserted views in table format as RTF files by default" so that one table can be exported directly though the default mode is RTF.

Fixes implemented in RMF 6.1.0.2

Component	APAR	Description
Compare Module / Transfer Analysis		The option "add dynamic history column" should be disabled if the user does not have the required access right to create an attribute in the module.
Dashboard		The dashboard does not export the right baselines when selecting the baselines to be exported according to their date of creation (using the option "Select by date" in the baseline tab).
		The sub-menu "RMF > dashboard" is not visible in a new dashboard just after its creation. The module has to be closed down and reopen for the sub-menu to be visible.
		After having edited an export definition, it may disappear from the list of export definitions.
Data model		Support background coloring by attribute in columns (new feature in DOORS 9.4) when synchronizing a module with its template.
DOC		Ability to discard the hidden Change Requests when generating the history of the modifications made between two DOC baselines.
		DOC now enables to define document properties based on attributes of any type (not just string or text). Besides the references to a document property (<<document property>>) are now case insensitive.
Manage Objects		Enable to enter a rationale when creating a new controlled object and record this text in the attribute "RCM Justification" of the impact object in the CR.
		New usecallout function called when clicking a button in the manage objects dialog which enables to prevent the related operation. This new function is named UC_preClickButtonManageObject and defined in addins\irdrmfao\startup\usecallout\usecallouts.inc.
Migration Rules		The new rules SETOBJRICHATTR and SETMAINOBJRICHATTR preserve formatting (bold, underlined,...).
		When some pieces of text are concatenated using the rules SETOBJATTR and SETMAINOBJATTR, a line break should be used as a separator if the attribute type is "Text".
Miscellaneous	PM78512	Installation of RMF can result in bad performance when opening the Manage Users dialog.
		RMF commands should not generate a DXL error whenever the definition of an attribute, type or view cannot be modified due to restricted access rights.
RCM		When the status of a CR changes from "completed" to "in progress", the controlled objects impacted that was "suppressed" are then no longer flagged as "suppressed". They should remain "suppressed".
		If the project is configured to enable links toward objects in working to be suspect, then such a link should be suspect again if the object

		has been modified after the link was created or after its suspicion has been cleared.
		The "RCM suspect links" user interface now enables to select several suspect links and to process them in batch (clearing, transferring or duplicating them). It also records all the actions taken into a log and displays the differences between the current target of a suspect link and the new version(s): modification of the attributes (semantic or not) and creation / deletion of links.
		When a CR is synchronized, the attribute 'Object Text' of the impact objects is now updated to reflect the possible change of the PUID of the impacted object.
WEXP		Do not change the orientation (to "landscape") of all the sections at the end of the document if the last section generated is set up to the orientation "landcape".
		Objects configured to be exported as a table row (by setting the name of a view in the attribute "WEXP View Name") should not be exported if they are not displayed in this view. Furthermore, if the attribute "WEXP View Filter" is also set (with the name of another view), then WEXP should check if the objects are visible in this other view instead and export only the objects that are visible.
		The WEXP spooler fails to launch a job if the pathname where RMF is installed contains accented characters.
		When inserting a section break and changing the page orientation, WEXP does not preserve the top and bottom margin.
		Sometimes index are not correctly updated.
		Ability to include shapes in object templates.
		The spooler sometimes aborts the export job for no reason.
		The spooler should check the actual status of a job before sending a notification as it sometimes sends a notification with the status "SUCCEED" instead of "FAILED".
		The bullets exported by WEXP on DOORS 9.5 do not have the usual look.

Fixes implemented in RMF 6.1.0.1

Component	APAR	Description
Configure Project		The Project Configuration fails if at least one of the custom attribute types "RCM Control Mode", "RCM Repair Link Modification" or "RCM Suspicion Actions" are missing in the Project Profile with the error -R-E- DXL: <addins/irdrmfao/menu calls/project/config_p.dxl:477> unassigned variable (err).
Dashboard		The metrics of type "Evolution" and "Stability" should take into account the objects created as a copy.
		The metrics of type "Count Links" and "Count Linked Objects" do not take into account the incoming links from modules that are not open.
		An error may occur when creating a view if the inserted metric has just been created.
Data model		Update the generic datamodel so that the PUID DXL column do not generate an error if the attribute IE PUID is missing.
DOC		The export of several modules to MS Word may stop with a DOORS diagnostic log.
		Reduce the time needed to start the command "RMF > Manage Documents" on big projects.
		Reduce the time needed to start the command "RMF > Manage Documents" and make updates for big document indexes by reducing the time to compute checksums. PLEASE NOTE that the existing document index modules MUST BE UPGRADED by a user with the role DOC Admin. To do so, please either run the command "RMF > Manage Documents" and browse all the document index modules one after another or run the script %RMFHOME%\irdrmfao\misc\migration\migrate-doc-index.dxl
		When exporting a module from DOC, the RCM filter chosen is not taken into account if the user has selected "Load from module" then clicked the button "module parameters" and then clicked "OK".
		Record the document versions that each RCM controlled object belongs to in a new attribute "IE DOC Versions" each time a document is baselined.
		Before deleting a document, DOC should make sure that the user has the required power (manage database) to delete a baseline. If not, DOC shall warn the user and let them decide whether to delete the document without deleting the baselines or abort.
		Add two new usercallouts, one called before and the other after baselining a document. These functions are defined in the new file addins\irdrmfao\plm\includes\doc\docusercallouts.inc.
		Prevent the history of doc index modules from growing disproportionately by not recording the modifications of the attribute "DOC View Descriptions" in the history any more and by automatically baselining a doc index when it contains more than 1000 history entries.

		Make the action "Refresh References" (in the Administration window) more efficient by updating the checksum of only the objects that have been modified.
		The command "Generate History of Document" now also enables to ignore the modification whose Change Request is hidden.
Exchange		Do not "restore folders" when loading the header file but when actually importing the modules.
		When importing, the objects containing OLE should not be flagged as modified when the OLE have not changed.
		Exchange may update enumerated attribute incorrectly if the order of the labels in the enumeration is different in the module as compared to the XML.
		Exchange does not update an attribute type if its name is not the same as in the XML.
		Errors such as "ERR:attributeDefinition 'Absolute Number' error in creating attribute definition" may be reported in the log while importing. Those errors can be discarded as the import is correct anyway. They occur on system attributes whenever the locale of those attributes is different in the source database.
Install / uninstall		If Office 2010 64 bits is installed, RMF fails to copy the file irdrmfao.dot in the startup directory of Office and displays the error message "irdrmfao.dot error - Couldn't locate MS Office".
Miscellaneous		Whenever the access rights configuration changes on a project, some users might experience a DXL error (R-W- DXL: <addin/irdrmfao/startup/tpi.inc:1213> no access to read attribute 'Object Heading'). This error will not occur with a Project Index module created with this Fix Pack (using the command 'RMF > Explore > Manage Index).
Patch-puid.dxl		The script patch-puid.dxl may incorrectly modify the PUID DXL column if it is run several times on the same module.
RCM		Display the "Manage RCM" user interface faster on big projects.
		The Project Index module is left unsaved and open in the background when setting or unsetting a module of a sub-project under RCM control.
		When changing the status of a Change Request, the following error may occur: -R-E- DXL: <addin/irdrmfao/plm/gui/crgui.inc:430> unassigned variable (RCM_ManageCR_ListDbe).
		Make it possible to create a new version after a version "tagged as suppressed". This new version is created as a copy of the version just before the "suppressed" one.
		If a CR is not assigned, make sure that anyone has sufficient access rights (RMCD) to work on the CR.
		New callbacks called before and after changing the status of a Change Request (defined in addins\irdrmfao\startup\usercallout\rcmusercallouts.inc).

	PM65534	The RCM check now fully supports the modification of a composite object in reference by a RCM Administrator except the purge of a child object which is still not handled. You can add, move in, move out, reorder or, delete child objects.
WEXP		The export of an inserted view in book mode may fail on MS Word 2010.
		When exporting a big module, it is recommended to enable the option "Save Word document during generation". WEXP now also closes and reopens the exported document periodically when this option is enabled to prevent MS Word from generating errors. You can change the period (number of objects exported) by editing the file addins\irdrmfao\wexp\include\userdefs.inc.
		Small DOORS tables are sometimes not autofitted when using the [Autofit table to width of page] setting.
		The command "Extract words from OLE" leaves the temporary Word document open if the option "Process only the current object" is checked.
		WEXP may export a text with two bullets if the style applied already features a bullet.
WEXP		The traces displayed by the WEXP spooler on the server side are now recorded in the log file as well (to read the log file, please run "RMF > Manage WEXP Jobs" as a WEXP spooler admin and then click "Monitor" first and then "Log").
Word import macros		Faster conversion of tables into OLE.

Fixes implemented in RMF 6.1

Component	APAR	Description
Dashboard		A DXL error may occur in the file dashboard/layout/statusAlarm.dxl at line 58 using RMF 6.0.0.4 when displaying a view that shows alarms. A workaround consists in running the command "Configure Dashboard" once.
		At the end of an export, Excel is sometimes not refreshed.
		The computation of a metric of type "Evolution" may be incorrect if the ending date is not specified.
		Many baselines may be opened while collecting metrics of type evolution or stability, and therefore it may take a long time if the system runs out of memory. To prevent this, only one baseline is open at a time.
DOC		The script "Generate doc history" is not restricted to master modules any more.
		An error may occur when clicking the "Module Parameters" button in the "Generate" window : -R-E- DXL: <addins/irdrmfao/plm/gui/DocWexplnit.inc:1156> null Module parameter was passed into argument position 1
Exchange		An error may occur when importing a module with readonly access rights : addins/irdrmfao/startup/exchange/xmldefs.inc:2469> An unexpected error has occurred
PFM		When a new configuration is created, the value of its parameters is empty. They should be equal to those of the previous version instead.
RCM		Changing the status of a Change Request to "Cancelled" fails if at least one impacted object is not composite (has no descendants) with the following error : "addins\irdrmfao\startup\rcm\rcmimpact.inc:977
		When changing the status of a CR to "Cancelled", RCM should check also if the descendants of the impacted object have incoming links and display an error message easier to understand if so.
		When a non-privileged user runs the command "set to be reviewed" in "manage CR" and does not confirm the action, then the CR is left open in edit mode and not visible.
		When changing the status of a CR check if the CR has been opened in exclusive edit mode successfully.
		To change the status of a CR from "to be reviewed" to "in progress", the "CR manager" role is sufficient: do not require the "RCM admin" as well.
		When changing the status of a CR from "in progress" to "to be reviewed", do not open the impacted modules (in exclusive edit mode) as it is useless.

		When changing the status of a CR, if an impacted modules cannot be opened in exclusive edit mode, do not display an error message for as many times as there are impacted objects, but only once.
		When changing the status of a CR, make sure first that the impacted modules and the CR are not modified so that they can be closed down to abort the transaction should an error occur. If such a module is modified, let the user decide wether saving it or aborting.
		When an error occur while changing the status of a CR, close down all the modified modules without saving in all cases.
		Whenever the status of a CR has changed in another session, RCM may not be aware of it and therefore may not prevent a user from modifying an object whose CR is now "to be reviewed" for instance.
		The RCM check may fail with a DXL error message "null LockRef".
		Let CR modules be resilient to a change in the name of the impacted modules to prevent error when displaying view "11. Delta highlights".
		The code of the RCM triggers can now be edited. It is available in the file startup/usercallout/rcmusercallouts.inc.
		If the user double-clicks a column displaying a semantic attribute (not the main column) and a new version is created, then the value of the semantic attribute is reset for the new version. The RCM triggers need to be deleted and recreated to fix this issue.
WEXP		The UI "Manage WEXP jobs" now displays detailed information about the jobs that are inconsistent and allow to delete them instead of simply displaying the error "Some errors occurs when extracting data on waiting/in progress/completed jobs".
		When the export is sent to the spooler, WEXP should close the process winword.exe spawned when starting up WEXP.

Enhancements implemented in RMF 6.1

1) PFM (Product Family Management)

PFM is a solution to manage requirements in a Product Line Engineering context. PFM enables to create a generic definition of a product (or system) with optional parts, alternatives and configurable requirements, and then to derive the actual products (or systems) from it.

PFM also manages parallel developments and synchronization between the generic definition of the product and the actual products.

This version includes the following enhancements :

- Formal Change management over configurable requirements
 - Parameters can optionally be under change control
 - The modification requiring a Change Request are :
 - creation,
 - deletion,
 - modification of the name, value or unit
 - The change requests used must be accepted (or rejected) before a package version can be baselined.
- Business logic exceptions
 - Some consistency check errors can now be discarded by creating exceptions for more flexibility :

<i>Type</i>	<i>Property</i>	<i>message</i>
Criterion	Contraint	"violated constraint"
Criteria set	Mandatory ?	"at least one criterion must be selected"
	Multi-valued ?	"at most one criterion can be selected"
Parameter	Values	"<value> is not a valid value for the parameter <name> because the condition of the range <range> is not true"

- Those exceptions are duly managed:
 - the person, date, rationale, error description are recorded
 - exceptions are automatically deleted whenever the related errors disappear
- Reporting the differences between configurations
 - Creates a report showing the differences between two configurations or more
 - The result of the comparison is a MS Excel report, displaying:
 - The objects that are used in one configuration and not the other(s), and
 - a matrix showing (for all the configurations)

- the status of the criteria, and
 - the value of the parameters
- Some metrics (number of RMF objects per type in each module of each package)
- Renaming tool
 - As modules can contain references to Criteria and Parameters, PFM now offers to update those references whenever a Criterion or a Parameter is renamed
 - scans the modules that may contains references
 - displays a report listing all the references found, that can be exported to MS Excel.
 - optionally updates the references. At the end, the report displays a status for each reference, with an error message if the update failed.
- new command “Edit > Move” in the PFM Browser enabling to move items from one package version to another easily :
 - criteria
 - criteria sets (new)
 - parameters
- Performances
 - PFM browser :
 - the PFM browser starts up faster when many data are loaded
 - the window comparing two configurations is displayed faster when many data are displayed
 - for performance reason, parameters are no longer displayed in the treeview but only in the right list when selecting the node “Parameters”. The ‘Properties’ window must be opened to display all the properties of the selected parameter.
 - when modifying parameters from outside the PFM browser (using the PFM info GUI), the changes are saved faster.

2) RCM

- When entering in edition mode, RCM now warns that the modification of a semantic attribute will be rejected only if the user has double-clicked a column that actually displays a semantic attribute.
NB: You need to delete and recreate the RCM triggers to benefit from this improvement
- In the previous versions, only semantic links could be suspect. It is now possible to define links in the Project Profile so that they are not semantic but can be suspect though. (Please refer to the user manual §7.3.4 “Add a new relationship” for more details)

Known limitations

- Explorer
 - The explorer is not able to manage a RMF project with too many items inside. The display of projects with more than 500 items will take too many time and memory resources. To cope with this limitation in the context of big projects, you should use the Scope concept to limit the size of the Explorer database, according to the part of the project you want to display.
 - The object graph view may need a large amount of memory and time resources to be processed. You should use this feature only after having filtered the visible items to limit the number of objects to process.
 - The explorer is not dynamically refreshed when database modifications (item creation, deletion, renaming, moving) are done outside of the tool.

- Exchange
 - The XML format processing used by Exchange is not very efficient because of the use of DXL script programming and not compiled code. The import operation may take a lot of time and memory resources to process the dataset. For example, the processing of 5000 objects to import will take several hours.

- Word generation
 - Because of the architecture of the DOORS to Word generation operation, that needs an instance of Word to process the data, the export of large amount of data may take a lot of time and resources. The amount of resources used is also dependent of the used formats. In case of memory or time limit, you should process incrementally by exporting several smaller dataset.

- RCM
 - You should avoid putting under RCM control too many modules within the same operation, because this operation may use a lot of memory. 10 modules should be a maximum, except if you can test before that you may supersede this limit without any trouble.
 - RCM is not able to control table elements (tables, rows, columns or cells), even in “All objects” mode. The only supported case is when a table is a part of a composite RMF object.
 - RCM is not able to control heading objects, even in “All objects” mode or if embedding of RMF objects is allowed.

- PFM
 - When creating an insulated package version, the inner traceability links (as opposed to the links with other packages) may be recorded in the same link modules (instead of a copy located in the new workspace) if those link modules are not located in the hierarchy of the package version

- Merge
 - Contextual attributes are not handled
 - Child objects (of composite objects) are not handled

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