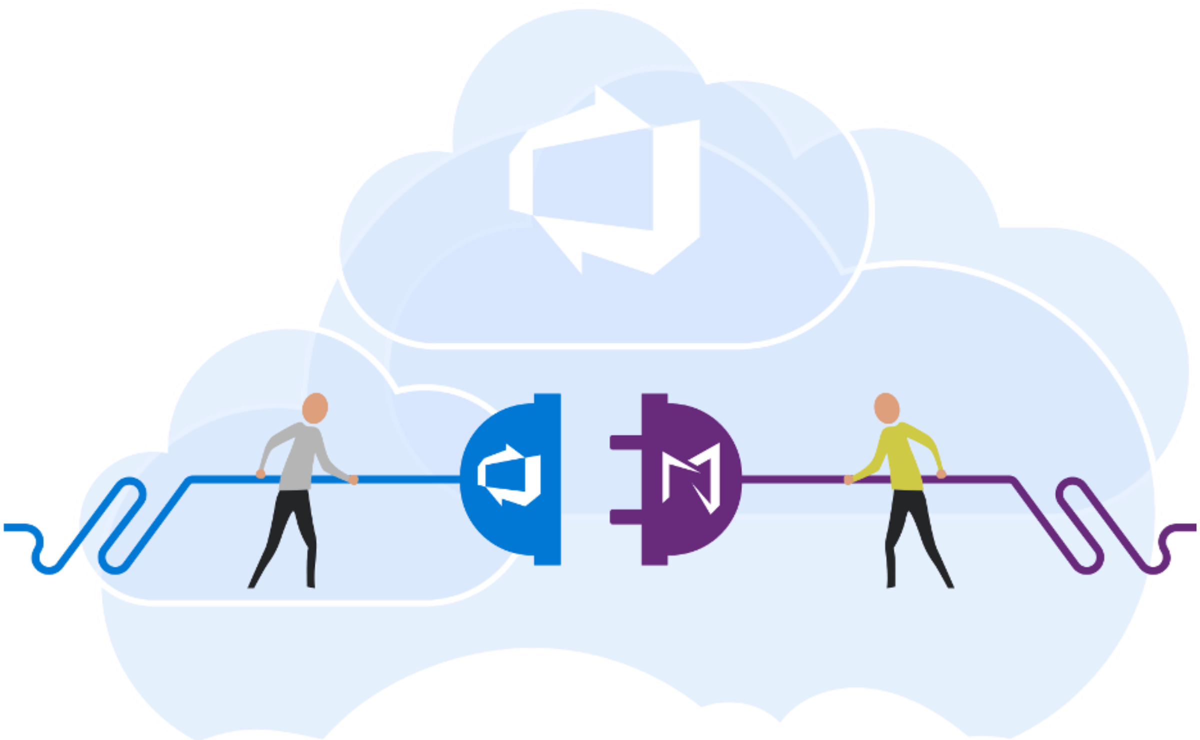
Modern Requirements4DevOps

Modern Requirements4DevOps 2024 Release Notes



Modern Requirements
4/1/2024

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1. Introduction

This document contains the notes for the 2024 release of Modern Requirements4DevOps (MR4DevOps). It describes the key features and enhancements of each module in the Modern Requirements4DevOps application. This includes Version Package, Copilot4DevOps, Smart Docs, Smart Note, FAQ, Diagram, Mock-up, Use Case, Review Management, Trace Analysis, Baseline, Reporting, Smart Reporting, and Impact Analysis.

2. Application setup

Refer to the "Modern Requirements4DevOps Installation Guide.docx" for installing the application.

General

1. Change Request

1. **The work item 'Revision ID' is replaced with 'Update ID' in ModernRequirement4DevOps UI.**

   Instead of 'Revision ID' of a work item, the 'Update ID' will now be shown in the MR application. Also, the column labels 'Revision' or 'Rev. ID' have been replaced with 'Version' or 'Ver. ID' respectively.

   Refer to the "**Work Item Update ID in ModernRequirements4DevOps - White Paper"** for more details.

2. New Features

1. **Support to copy a Test plan and its associated test suites from Test Hub.**

   Users will be able to copy and reuse existing Test plans and their associated test suites in Test Hub. By selecting the default test suite and right-clicking, a new option "Copy Test Plan" appears in the context menu. Upon selection, a popup allows users to provide a suitable title for the test plan, choose area and iteration paths, and view a list of test suites for copying. Users can selectively choose test suites, the copying process supports two radio button options: "*Reference existing test cases*" (default) and "*Duplicate existing test cases*," offering flexibility in managing test case IDs and details.

2. **Azure DevOps 'MultiValue' custom control support in ModernRequirements4DevOps.**

   The support of Azure DevOps custom control 'Multivalue control' is now provided in Modern Requirements application. Having this support, a control itself shall not be shown (like ADO shows) however, a field that is bound with this control, will be shown within MR application, even though if it is hidden in ADO Standard editor window.

   Since this control could have multiple values and users should be able to select more than one value at a time therefore, the values of this field will be shown with checkboxes in MR. Upon selection, the multiple values will be shown with semi-colons separated in MR. The respective fields will be shown in MR at the following places.
   1. **Edit work item window in Smart Docs and Version Package** modules → Users will be able to edit this field in bulk within Smart Docs & Version Package modules.
   2. **Meta Template Designer in Smart Docs and Version Package modules** → Users will be able to configure the field from Template Designer so that it can be shown in a grid.
   3. **Column Options (right panel) in Smart Docs and Version Package modules** → Users will be able to configure this field in Column Options to be shown in a column in Smart Docs & Version Package modules.
   4. **Smart Report Designer, generation, and export to MS Word/PDF** → Users will be able to configure this field in report part, generate & export to MS Word/PDF.

3. Tool Enhancements

2. **Performance optimization on loading files on the browse page**

Users shall now experience significant performance improvements when files are loaded on the browse page once a module is accessed. This will save time and give a better user experience without any hassle.

3. **Message update in Diagram/Simulation/Use Case/Smart Note/FAQ when file is not checked in.**

   When a file is not checked in, on renaming/deleting/moving/copying the *file now shows the proper message "Cannot [action], because file is not checked in."* or in the case of copy, the message will show like *"Unable to copy, because file is not checked in.*

4. **Performance Optimization in Project Connection time.**

   Users shall experience substantial boost in performance for the Project connection time. The project connection time is reduced, and projects files are loaded faster on accessing ModerRequirements4DevOps module for the first time.

5. **Updating static files without explicitly clearing browser cache.**

   Previously users had to clear the browser cache in order to update static files such as CSS and JavaScript where they faced hurdles in file creation, clicking button or generating updated report. Now, users will not have to clear browser cache; the static files shall update automatically.

4. Change Request

1. **Linked work item details in "Linked Work item Type" virtual field of Smart Report now corresponds to the work item version/revision.**

   In Smart Report, if a 'Linked Work item Type' virtual field is configured then it will show the details of only linked work item(s) which exist on a particular work item version.

   This functionality will be purposeful in Smart Docs versions, Version Package versions, Review, and Baseline modules where there are locked work items so that users can easily view the details of linked work item(s) with respect to the specific version of a wok item. In Trace Analysis module, this can be useful when users generate a matrix on a version package file including the locked work items.

5. Bug Fixes

1. Fixed an issue where the Smart view window is not opening for the work item type(s) which are updated in the ADO process template w.r.t lower & upper cases.
2. Fixed an issue where, unable to perform context menu operations after performing drag and drop operation on template file.
3. Fixed an issue where, after renaming the custom work item type (small to caps and vice versa), both work item(s) were showing in the Edit work items window.
4. Fixed an issue where user was unable to sign in as a stakeholder, Stakeholder License functionality is not working.
5. Fixed an issue where files were not updating without clearing the cache.
6. Fixed an issue where the Browse page file and folder were missing due to invalid characters.

7. Fixed an issue where the disabled work item from the process template was showing for selection in the Modern Requirements4DevOps modules.

Smart View

1. Change Request

1. **Variant functionality in Smart View.**

   In the earlier version of MR, users were able to see only variant(s) of the selected work item in the 'Variant' tab of Smart View. Means that, if there is a hierarchy of variants like this **F1→ F1-Var1→ F1-Var2** so only 'F1-Var1' will be shown when 'F1' is selected. A variant 'F1-Var2' which originated from 'F1-Var1' variant (indirectly associated to the parent work item 'F1) does not show up on the 'Variant' tab.

   From now on, users will be able to view all the variant(s) which belong to the same variant hierarchy. This will be called "Variant Group" (VG).

   A variant group means that, each member should have a tag of **'VG'** in it including the work item id of parent work item. For example, **F1 (ID: 44246)** is a parent work item, from this a variant **'F1-Var1'** is created. Another variant **'F1-Var2'** is created from **'F1-Var1'**. Here in this example, all three work items will contain same tag i.e. **'VG44246'** so these will be considered as same family however a source variant of 'F1-Var2' is 'F1-Var1. Now, in this case if any of the family members gets opened in Smart View then you shall be able to see all other members of this group as variant in 'Variants' tab.

   All variants of a group will be shown in a flat list and users can see the direct source work item of a variant in a 'Source' column.

   On Creating a new variant or linking to an existing work item as a variant, a 'VG' tag will be added to the work item which is shown on Smart View.

2. Tool Enhancement

1. **Add Multiple work items at once as variant from 'Link to existing work item' window.**

   Users can now effortlessly add multiple work items as variant in the and Smart View 'Variants' Tab. Click '*Link existing work item*' to open a user-friendly pop-up with type-specific dropdowns. Enter numeric values for quick suggestions or perform title searches. Linked work items display essential details, with an option to remove links. Seamlessly integrate comments, add and cancel actions, and enjoy smart linking scenarios based on work item status. Enhance collaboration and streamline workflows with this intuitive update.

3. Bug fixes

1. Fixed an issue where Smart View window was not opening for the work item type(s) which were updated in the Azure DevOps process template w.r.t lower & upper cases.
2. Fixed an issue where the created date was not shown when creating the new variant or linking existing work item as variant from the Smart View.
3. Fixed an issue where links information in Smart View was not shown according to the information in Azure DevOps.
4. Fixed an issue where Configured fields in the admin panel was not showing yellow highlighted on Smart View.

5. Fixed an issue where Continuous loading was showing on Smart View from Queries, Baseline, Review and Smart Docs when work item types are re-created with Upper/Lower case.
6. Fixed an issue where Work item labels were not showing strikethrough on Smart View when updated.
7. Fixed an issue where Fields were displaying twice on Smart View when both layout & Web layout were defined in a work item.

Admin Panel

1. New Features

1. Configure a comment as 'Required' for 'Review Response Action' value.

An admin can configure and mark a 'Review response action' value which will have a comment when any review stakeholder opts that particular action value against any response in a review. In this case, a comment must be provided, otherwise stakeholders will not be allowed to set this action value without entering a comment to justify his/her action.

2. Tool Enhancements

1. Configure versions for Copilot4DevOps.

There is a "Configure versions for Copilot4DevOps" section in admin panel under "General Tab" through which users can select the API model to be used to generate data through Copilot4DevOps. Based on the selection of API model user can select the model version(s) to be shown to the user under the "Additional Instruction" right panel. This selection provides users with the ability to select the model version they prefer to generate data.

2. Copilot4DevOps Token Status.

There is a "COPILOT4DEVOPS TOKEN STATUS" section added in admin panel under the "Licensing" tab using that users shall be able to view the current status of their token usage. It will be comprised of the following information:

1. Consumed this month: How many tokens have been consumed in the current month.
2. Month Quota: It represents the total number of monthly tokens assigned to the user.
3. Quota start date: It shows the date when the token consumption started.

Tokens quota is assigned for Copilot4DevOps based on the Modern Requirements license type being used by the user such as Floating and User-based etc.

3. Bug fixes

1. Fixed an issue where MR Registered e-mail addresses were not shown in alphabetical order under Review tab.

Version Packages.

1. Change Request

1. View all Variants of the work item at 'Switch Variant' window.

In the earlier version of MR, users were able to see only variant(s) of the selected work item at 'Switch variant' window. Means that, if there is a hierarchy of variants like this **F1→ F1-Var1→ F1-Var2** so only 'F1-Var1' will be shown when 'F1' is selected. A variant 'F1-Var2' which originated from 'F1-Var1' variant (indirectly associated to the parent work item 'F1) does not show up at 'Switch Variant' window.

From now on, users will be able to view all the variant(s) which belong to the same variant hierarchy this will be called as Variant Group (VG).

A variant group means that, each member should have a tag of **'VG'** in it including the work item id of parent work item. For example, **F1 (ID: 44246)** is a parent work item, from this a variant **'F1-Var1'** is created and another variant **'F1-Var2'** is created from **'F1-Var1'**. Here in this example, all three work items will contain same tag i.e. **'VG44246'** so these will be considered as same family however a source variant of 'F1-Var2' is 'F1-Var1. Now, in this case if any of the family members is selected then you will be able to see all other members of this group at 'Switch Variant' window.

2. New Features

1. Update Version Package template of existing version package(s).

Users will be able to update the Package template that is associated with the existing version package. Users will be able to update templates with the '**Update Template**' option. The changes will be reflected in the associated version package as well. If any work item type is no longer compatible with the template will be removed. Any updates in work item fields (default/show properties) or inherit parent properties section shall be reflected in the respective associated version package(s). Any propagation where work item is either added or removed from the Version package occurring due to meta template updates will not be reflected in associated variant packages of the source version package.

2. Create Package Variant along with the associated Sub Packages.

Upon creating a package variant, users will be able to include 'sub-package(s)' of a version package, if needed.
An option 'Link sub packages' shall be added in 'Others option' tab of 'Create package variant' window. This option shall be consisting of following values:

1. **Link sub package(s) →** Upon selecting this option, the 'Sub package(s)' of the source Version package will be auto-linked to the Variant package as 'Sub package'.
2. **Create variant of sub package(s) →** Upon selecting this option, a package variant will be created of each associated sub-package of a source version package and then will be auto-linked to the package variant as 'Sub package'.
    a. On selecting this option, two fields will be shown 'Prefix' and 'Postfix' so that a user can include pre/postfix in the title of each variant package to distinguish it with the name of its respective sub-package.
    b. These fields are mandatory and only visible when the corresponding option is selected.

c. Propagation rules configured on this window will be applicable between the respective source package and its linked package variant.

3. **Don't link sub package(s)** → On selecting this option, the 'Sub package(s)' associated with the source Version package will not associate to the Variant package.

3. **Create a Version Package from the Queries and Backlog.**

   Users can now create a Version Package from the Queries and Backlog tab. Users can select the work item(s) from the Queries or Backlog tab and can create a Version Package on the selected work items. Work items will be filtered out according to the selected Package template. On creating the Version Package, the Package shall open in the new browser tab.

4. **View the changed type of work item(s) on the Version Package grid if changed from ADO.**

   Users can now view the changed work item type on the Version package grid if they are changed from the ADO. The message shall be shown for the first time on opening the Version package if any of the work item added has changed type. Users can interact with these messages, dismissing them explicitly, and subsequent closures won't trigger re-display. The work item is also highlighted. If the changed type is allowed in the Package template, then it is shown as Pink highlighted but if work item is not allowed in the Package template, then it is shown as red highlighted. If any work item is locked on a particular version via the 'Set Version' option where it had change type, then it is also validated against the Package template and highlighted accordingly. User can remove the work item with change type which are not allowed in the Version package.

5. **The last selected package template is remembered on reopening the new package.**

   The user selection for the package template is retained in the new package window. The last selected template is auto-selected in creating New Package, New Package Variant, Sub Package, and Linked Package.

6. **Column Option on the Version Package grid.**

   Users can now configure column options for the work items on the Version Package grid. If the work item is Live, then the updated field value is shown in the grid. If the work item is Locked on any version, then the field value is shown with respect to the version. User can also add 'Linked Work item' column in the Version package and work item linked are shown according to the version of the work item.

7. **Context Menu meatball icon beside the work item title.**

   Users can now open the work item context menu from the meatball icons appearing beside the work item title. On clicking, the context menu of the work item opens, and the user can select the desired menu option.

8. **Work item title shows as hyperlink on the Version Package grid.**

   Users are now able to click the work item title on the Version Package grid. On clicking, Smart View will invoke if the work item is Locked, and the ADO editor will open for Live work items.

9. **Exclude 'Live' work item from a version package without breaking it links with other work item(s) in ADO.**

Users are now able to exclude any 'Live' work item from the Version Package using the 'Remove from Package' option. The linking of respective work item with other work item(s) will remain intact in ADO and work item will get removed only from the Version Package.

10. Permissions for Version Package module.

Admins can now give permissions to the group of users on Project level from the ModernRequirements4DevOps admin panel settings on Project level. Admins can give permissions of Allow, Deny, and Not Set. Users are given permissions on various sets of features.

3. Tool Enhancements

1. **Performance Optimization in the Version Package Creation and loading of work items on the Version Package grid.**

   Significant performance enhancements in this release, aimed at delivering a smoother and more efficient user experience. Users can expect to see improvements in Version Package creation with the large number of Live work items.
   Furthermore, Users can also expect improvements in loading time of Live work items on Version Package's Result tab grid. Time to load Live work items has been reduced significantly compared to the previous release.

2. **Performance Optimization for adding work items in the Version Package via 'Copilot4DevOps'.**

   Performance enhancements in Version Package on adding work items via 'Coplit4DevOps' have been achieved. Users can experience smoother transition of adding work items in Version Package with the 'Elicit' option of the 'Copilot4DevOps'.

3. **Add Multiple work items at once from 'Link to existing work item' window.**

   Users can now effortlessly add multiple work items in the Version Package. Click 'Existing work item' to open a user-friendly pop-up with type-specific dropdowns. Enter numeric values for quick suggestions or perform title searches. Linked work items display essential details, with an option to remove links. Seamlessly integrate comments, add, and cancel actions, and enjoy smart linking scenarios based on work item status. Enhance collaboration and streamline workflows with this intuitive update.

4. Bugs fixes

1. Fixed an issue where incorrect last modified date was showing on creating variant package from a new package.
2. Fixed an issue where 'Open in new tab' icon was not showing on Create Package Variant window.
3. Fixed an issue where 'Open Work item' option was not showing in Smart Editor window in the right panel.
4. Fixed an issue where 'Unable to add existing work item' message was showing when adding any existing work item via right panel that contains more than 1000 links.
5. Fixed an issue where user was unable to restore template after renaming it from recycle bin.
6. Fixed an issue where upon changing the screen size the work item(s) are disappearing from result tab.

7. Fixed an issue where upon changing the screen size the main folder was showing on browse page.
8. Fixed an issue where description comparison was not showing correctly in smart view when any column in a table was removed.
9. Fixed an issue where '+' sign was showing on the last work item which was non recursive and had no child.
10. Fixed an issue where 'Failed to create Package' message was showing on creating a package with any existing work item that contain more 1000 links.
11. Fixed an issue where Search was not working properly on Work Item type and Version Column.
12. Fixed an issue where Upon clicking Refresh it was redirecting to the Package Template page and breadcrumb was not refreshing.
13. Fixed an issue where root work item was showing on live state when package is locked from toolbar.
14. Fixed an issue where user was able to update work item title for locked package from Smart Editor in right panel.
15. Fixed an issue where 'Unable to set version' message was showing when applying set version on parent work item after performing roll back.
16. Fixed an issue where Continuous loading is showing when going back to Package Template tab from breadcrumb.
17. Fixed an issue where Upon apply searching from right panel, Live text is showing as highlighted.
18. Fixed an issue where 'Save' button was shown disabled on turning off the Propagation rule in Variants tab.

Copilot4DevOps

1. New Features

1. Dynamic Prompt

A new feature "Dynamic Prompt" is introduced in Copilot4DevOps which can be accessed from the respective modules ("Version Package" & "Smart Docs") tool bar and work item context menu as well. It can also be accessed from "Queries", "Backlog" tabs and "Work item context menu".

It allows user with more open approach to enter the prompt of their choice and perform any desired action through dynamic prompt and result is generated accordingly.

In this function there are two tabs "Prompt" and "Result". Under the "Prompt" tab, select the desired Query 1 and Query 2 and their corresponding Fields from the dropdown. Check the "For each item in" checkbox for either Query 1 or Query 2, or both, if processing one work item at a time is necessary. Users can enter the prompt of their choice and choose to generate the result. The result is generated according to the prompt and id displayed under the "Result" tab. If any of the "For each item in" checkboxes are checked, a confirmation popup will appear containing a checkbox with the label "Don't ask again". On clicking the checkbox, the popup is not opened again until the cookies are cleared. Click on the copy button to copy the generated result. It also provides user to "Create work item" and publish work items within ADO projects/teams and VPM/Smart Docs grids.

The "Prompt" tab's toolbar includes options to create new prompts, preview prompts with context input, save or save as prompts with custom names, and open existing prompts, allowing users to rename or delete prompts from the context menu.

2. Pseudocode

Pseudocode is a high-level description of a computer algorithm or program, using structured language resembling a programming language, but without adhering to specific syntax rules. Copilot4DevOps can generate pseudocode for input work item data.

The function in Copilot4DevOps allows users to select specific HTML fields from the "Input Parameters," including their titles, and choose a Programming Language from a dropdown menu. This selection enables the generation of a Pseudocode based on the chosen criteria. The data is displayed in two panels for this function as below:

a. Left Panel: The selected work item field(s) original data is displayed in this panel under field wise heading respectively.
b. Right Panel: On clicking "Generate", the Pseudocode is generated and displayed in this panel.

The user can opt to "Copy" the generated data in HTML format to place elsewhere as well. Additionally, they can add generated pseudocode to a selected work item HTML field using options like "Add to bottom," "Add to top," "Replace," or create a new work item with the generated Pseudocode. Upon publishing this work item, it can be included in the ADO project/team. If permitted based on the template configuration, it may also be added to the "Version Package" and "Smart Docs" grids. There is an option of providing additional instructions that give the user further option and ease of appending any custom instruction that he/she might want to add to generate the result.

3. **Test Script**

A Test Script is a set of instructions or code used to automate the execution of tests to verify their functionality or performance. Copilot4DevOps can generate Test Script for input work item data based on the selection of Framework.

The function in Copilot4DevOps allows users to select specific HTML fields from the "Input Parameters," including their titles, and choose a framework from a dropdown menu. This selection enables the generation of a test script based on the chosen criteria. The data is displayed in two panels for this function as below:

a. Left Panel: The selected work item field(s) original data is displayed in this panel under field wise heading respectively.
b. Right Panel: On clicking "Generate", the Test script is generated and displayed in this panel.

The user can opt to "Copy" the generated data in HTML format to place elsewhere as well. Additionally, they can add generated Test Script to a selected work item HTML field using options like "Add to bottom," "Add to top," "Replace," or create a new work item with the generated Test Script. Upon publishing this work item, it can be included in the ADO project/team. If permitted based on the template configuration, it may also be added to the "Version Package" and "Smart Docs" grids. There is an option of providing additional instructions that give the user further option and ease of appending any custom instruction that he/she might want to add to generate the result.

2. Tool Enhancements

1. Custom Instructions

There is an option of providing custom instructions that give the user further option and ease of appending any custom instruction that he/she might want to add to generate the desired result in the existing Copilot4DevOps functions. On clicking it a right panel opens, where user will be able to choose the following options:

1. **AI Model:** Choose between different AI models for generating results based on admin configurations.
2. **Conversation Style:** Select from three styles
   - More Precise: This focused on clarity and accuracy, favoring straightforward and accurate response to convey information.
   - More Balanced: This focused on middle response between creativity and precision, balancing between expressive language and clear communication.
   - More Creative: This focused on imaginative and creative response, allowing for more expressive interaction.
3. **Output Length:** Choose the length of the response:
   - Long: This option generates a more detailed and extensive response.
   - Medium: This option balances between conciseness offering a moderate sized response.
   - Short: This option provides enough information to address the query without much explanation.
4. **Response Language:** Pick the language for the result generation from the dropdown.
5. **Custom Instruction:** Add any custom instructions which will be added with the default prompt.

For the elicit function, users are provided with two custom instruction input areas. The first one is designated for the list of titles, while the second one is tailored for adding detailed instructions.

2. Copilot4DevOps Token Status

At Copilot4DevOps "Home" page, there is a "Token Status" option added at the top right using that users shall be able to view the current status of their token usage. It will be comprised of the following information.

1. Consumed this month: How many tokens have been consumed in the current month.
2. Month Quota: It represents the total number of monthly tokens assigned to the user.
3. Quota start date: It shows the date when the token consumption started.
4. Progress bar: It shows the Quota consumption in percentage.

Tokens quota is assigned for Copilot4DevOps based on the Modern Requirements license type being used by the user such as Floating and User-based etc.

3. Improved Extension Point startup performance for Copilot4DevOps module.

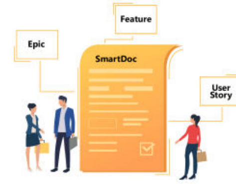
The startup performance from the extension point of the Copilot4DevOps module has been significantly enhanced. Users will notice considerable improvements in extension point loading times, resulting in a smoother and faster user experience.

3. Bugs fixes

1. Fixed an issue where the "Select all" option remains marked as selected, even if not all the options have been selected.
2. Fixed an issue where unable to Create Linked Work Items (Test Cases) Using Copilot.
3. Fixed an issue where FAQ hangs on generating topic first time on new project.
4. Fixed an issue where the generate button not working if stop generating is clicked twice in translate function.
5. Fixed an issue where the add button is showing enabled when only title is selected in elaborate work item fields.
6. 6.Fixed an issue where dropdown selection is not retained after changes is done in other dropdown field.
7. Fixed an issue where HTML tags appear after performing translation function.
8. Fixed UI issues of backlog/WI context menu.
9. Fixed an issue where all the buttons except generate and cancel must be shown disabled when there is no data in right panel.
10. Fixed an issue where when a field is deselected from the 'given input' multi-field dropdown, the dropdown text field becomes empty.
11. Fixed an issue where copy button is disappearing on mouse hover.

12. Fixed an issue where bullet in several points appear in paragraph form after functionCopilot4DevOps function.
13. Fixed an issue where when a field is deselected from the 'given input' multi-field dropdown, the dropdown text field becomes empty.
14. Fixed an issue where an Error message is showing on creating linked work item in elicit on VPM module.
15. Fixed an issue where Convert to Gherkin output is same as input given.

Smart Docs



1. New Features

1. Export Smart Docs file/folder(s) to Microsoft Excel.

Users are now able to export the Smart Docs file/folder(s) into Microsoft Excel using '**Export to Excel**' option. This option is provided in the context menu of file and folder level. On clicking this option, an excel file will be generated and downloaded including the details of Smart Docs file such as Title, created date etc.

If a user wants to export more than one Smart Docs file, it can be done using the 'Export to Excel' option from folder context menu.

The exported Excel spreadsheet will consist of the following two sheets:

Project Team Details: This is an introduction page having the following details: the one-liner purpose of this exported excel file, Project team URL and a Table is also there along with the details of Source Folder, No. of Smart Docs, Created By, Created Date.
Note: The data in the Created Date and Created By column are set to N/A when excel is generated from 'Smart Docs' root folder and from already created folder in the folder hierarchy, as backward compatibility is not supported in this case.

Smart Docs List: The following columns are included in the above sheet: Folder Path (if there are multiple Smart Docs files under the same folder path then the folder path is shown as 'Merge & Centre' and bold for all those files), Smart Docs Name, Created Date, Modified Date, URL (on clicking it the user will be navigated to the respective Smart Docs file where it will be shown, selected, and opened only when the exported file is in editable mode).

2. Tool Enhancements

1. System will maintain the last selection of Smart Docs template at 'New file' window.

Upon creating a new Smart Docs, a user will be able to see his last selected template which he used in the past for file creation.

2. Support of Document Properties in Smart Docs Versions.

Like the 'Document' tab of Smart Docs, the 'Document Properties' feature is now provided in Smart Docs versions as well. Users will now be able to configure the properties in a specific Smart Docs version so that these can be exported to Microsoft Word/PDF directly from the version.
This option is provided on a toolbar when a Smart Docs version is opened. This is supported for both types of versions; Smart Docs version (created manually by the users) and Review versions (created by the MR system upon initiating a review)

3. **Configure "Linked Work item" virtual field column from Column Options tab in right panel.**

   Like Smart Report, users will now be able to configure a "Linked Work item" virtual field column from Column Options right panel. A user can configure the fields of linked work item which need to be shown in a grid column using the 'Config' option.

4. **Froala version integration**

   Users can now experience a better UI with Froala's latest version integration in Smart Docs with some bug fixes.

3. Bug fixes

1. Fixed an issue where the indication brackets {} are not shown properly in line break and in linking scenario in word import preview window.
2. Fixed an issue where on Basic Template, linking is not creating between Work items.
3. Fixed an issue where, when creating a work item with a new Work item type, it shows the old Work item type name in Smart Docs.
4. Fixed an issue where an open work item button is not showing on the Diagram work item context menu.
5. Fixed an issue for the word import where the Table and Paragraph are not being mapped as a description of list.
6. Fixed an issue on the word import – ruleset designer window where the selected file is not visible in the left panel and the scrollbar moves downward.
7. Fixed an issue where on the word import, if there is a description in list one, then the nested list is mapping with the first list's work item type.
8. Fixed an issue where, when we increase/decrease the size of a browser window, the Smart Doc File selection is changed to Previous Smart Doc File while title and focus on the file remain the same.
9. Fixed an issue where unable to add the work item(s) from right panel in Smart Docs grid, after re-creating the deleted custom work item type with the same name but slightly change ie (small to caps and vice versa).
10. Fixed an issue where the table property editor pane window is cut off in the smart editor.
11. Fixed an issue where the cursor/pointer was losing focus when any work item is opened in ADO after performing Expand/Collapse operations.
12. Fixed an issue where the work item(s) were showing in removed state after re-creating the deleted custom work item type with the same name but slightly change ie (small to caps and vice versa).
13. Fixed an issue where the introductory page was shown when resizing the Smart Docs grid.
14. Fixed an issue where the splitter bar on the right panel of the Smart Doc editor window breaks after switching to full-screen mode.
15. Fixed an issue where the file was not being created properly when create a new file with the updated document template.
16. Fixed an issue where the work item(s) were showing in removed state after updating work item type name from process template.
17. Fixed an issue where when renaming the custom work item type (small to caps and vice versa), unable to add the renamed work item(s) from right panel in Smart Docs.
18. Fixed an issue where multiple extra ID's were generating when file was created with document template.
19. Fixed an issue when open a smart docs file and use browser back navigation option observe browse page reloading.

Review Management

1. Change Request

1. 'Submit Comment' option is moved from 'Responses' tab to a new tab 'All Comments'.

A 'Submit Comment' option has been moved from 'Responses' tab to the new tab 'All Comments' keeping the same functionality as before.
Note: The details of a new tab 'All Comments' is explained below under section 1

2. New Features

1. 'All Comments' tab is added into the right panel.

A new tab is added in the right panel named as 'All Comments'. This tab shall include both types of comments 'Submit Comment' and 'Text-based Comment' added by the review stakeholders.

Change Request: A 'Submit Comment' option has been moved from 'Responses' tab to this new tab 'All Comments' keeping the same functionality as before.

A 'Text-based Comment' option is first time introduced in this release, refer to the below section 2 for details.

2. Add text-based comment on a selected part of text in a work item field.

A user will be able to add text-based comment on a selected text in a wok item field using the icon ' Add comment', now added on the review grid toolbar.

A text-based comment can be added by selecting a text using mouse in a grid. Once the text is selected, an icon ' Add Comment' shall get enabled on the toolbar. Upon clicking on 'Add Comment' icon, a popup shall be opened over the right panel. Using the text area of this popup, users shall be able to add a comment for the selected text.

Additionally, when a comment is selected in the right panel, depending on the comment type, a selection will be shown in at a work item level in a grid. For example, if the selected comment is of text-based type then the specific text shall get blue highlighted in a work item to which this comment was added. Whereas, if it is a submit comment then whole work item row shall get selected.

Both types of comments are characterized with a separate icon so that a user can easily recognize a comment type. Also, the count of both types of comments will be shown in the Summary tab accordingly.

3. A 'Comment' is configured as 'Required' for 'Review Response Action' value.

If a comment is configured as 'Required' in the MR Admin panel for the 'Review response action' value then upon selecting a particular action value, the review stakeholders shall be prompted to enter a comment to rationalize your action, otherwise you cannot proceed with it.

3. Tool Enhancements

1. **The count of 'Submit Review' shall be shown with respect to the count of Submit Review submitted in the 'Responses' tab.**

   The count of 'Submit Review' is shown with respect to the count of Submit Review submitted in the 'Responses'. Previously only a single count for 'Submit Review' was shown for a Review stakeholder.

3. Bug fixes

1. Fixed an issue where backspace and space were not working in comment box.
2. Fixed an issue where 'Failed to get work items' error was showing when creating Review from Review using test case work item.
3. Fixed an issue where 'Rev ID' (Now shown as 'Ver ID') and 'Progress' column is shown empty in Review when created from Version Package.
4. Fixed an issue where 'Unable to show work item' was showing when creating Review from Version Package.
5. Fixed an issue where error was shown on clicking 'Open in Version Package' icon from Review details tab.
6. Fixed an issue where Approval/Reviewer comments were not shown in discussion tab of Feature Work item type.
7. Fixed an issue where Review was not created for Review subject having these special characters !@#$%^&*()_+-_|}{[]\":;'?><,./
8. Fixed an issue where '*There are no email address configure*' message was showing on Create Request window for creating request from Backlog/Query of the project that user is accessing for the first time.
9. Fixed an issue where incorrect date format was showing in the Reviews list at the browse page.
10. Fixed an issue where Area path of connected team was not showing on create request window.
11. Fixed an issue where Post state values were not showing in Review for only Module Requirement and System Requirement work item types with upper/lower case in their name.
12. Fixed an issue where the Submit comment text box was shown enabled on response tab after review is marked completed.
13. Fixed an issue where Incorrect date and format were shown in Reviews list on browse page.
14. Fixed an issue where Error occurred while creating the review from all modules after adding user as stakeholder for a project.
15. Fixed an issue where Error 404 '*The page you requested cannot be found*' was shown on clicking the hyperlink added in the Review/Smart Docs work item.
16. Fixed an issue where the '*Unable to get review detail'* error was shown on opening any existing review.

Smart Report

1. New Features

1. Generate Smart Report on Test Plan or Test Suite including sub-test Suites from Azure Test hub.

On Smart Report generation from ADO Test hub, users will now be able to include sub-test suites of a selected Test Plan or Test Suite. This can be done using an option "Generate Report including Suites hierarchy" provided at Smart Report window. The button "Generate Report" is now split into two options; 'Generate Report' and 'Generate Report including Suites hierarchy'.

By clicking this option, a popup window "Include Test Suites hierarchy" will appear, including the selected test suit and hierarchy of its associated test suites. Users will be able to select more than one test suites in a hierarchy.

Please note that currently only 25 test suites can be selected. Upon reaching the limit and attempting to select a 26th test suite, a message will be displayed, informing the user that the "Test suite limit exceeds."

Note: Currently this feature is supported in versions from 2020 onwards; it is not available in 2019 or earlier versions. A request to Microsoft has already been submitted regarding this issue.

2. Save Smart Report directly into Document Management System.

Users will be able to save a generated Smart Report directly into Document Management system. An option 'Save to Library' is provided in Smart Report along with other options; Save as MS Word, PDF, and HTML.

This is supported in MR all places from where the Smart Report can be invoked. Additionally, this feature is provided in Smart Docs toolbar options 'Save As Word/PDF' and in Advanced Reporting modules.

Upon selecting a "Save to Library" option, a popup titled "Save Smart Report to Library" appears, allowing users to set a default title or customize it as needed. Users will be able to choose a folder from folder structure which exists in the Document Management. Users can upload their custom Word templates, if needed.

Please note that if a file with the same title already exists in Document Management, a message will be displayed when saving the file again. This message will inform the user that a "File with the same name already exists. Are you sure you want to update the existing file with the current version?" Additionally, if a file with the same name is already present in the selected folder but in a checked-out format, then a message will be displayed. This message will inform the user that a "File with the same name already exists and is currently checked out. Please rename or check in the existing file."

2. Tool Enhancements

1. **Support to generate report in Test Hub-exclusive to Enterprise Plus License holder.**

   Users with an "Enterprise Plus" license will be able to utilize the "Generate Report" option in Test Hub exclusively. For others, this feature is disabled, accompanied by a tooltip on the "General Report" option indicating its exclusive support for Enterprise Plus licenses.

2. **Support to display the date-time pattern in the "Details" field of Test Results in Smart Part with the configuration defined in the admin panel.**

   Users will be able to customize the date-time pattern displayed in the "Details" field of Test Results within Smart Part, in alignment with the settings defined in the admin panel.

3. Bugs fixes

1. Fixed an issue where exporting or saving as word was not utilizing the full width of document, while HTML result was fine.
2. Fixed an issue where any field that was not configured at parent work item was also not showing for a child work item although it was configured.

Trace Analysis

1. Tool Enhancements

1. **Generate horizontal matrix on version Package including sub-package(s).**

   Users will be able to include sub-packages while generating a trace matrix on a version package. A checkbox labeled "Include sub-package(s)" is provided alongside the 'Select Query' dropdown, which will only be visible when a version package is selected in a drop down.

   Upon checking this option, a trace matrix will be generated including the work items from selected version package as well from its associated sub-packages. This option will consider all sub-package(s) which exist in the hierarchy up to the specified level.

   The overall functionality of top-level, linked work item(s), and fields configuration will remain functional as similar as it exists for normal trace files.

   The output ensures clear hierarchy, handling live and locked states in source and sub-packages, ensuring an accurate representation, and avoiding repetitions of duplicate work items.

2. **Sorting becomes easy on linked work items in the exported Excel spreadsheet.**

   In the exported Excel spreadsheet, now the top-level work item rows will get merged by default if there is more than one linked work item associated to it. So that, upon sorting the work items in 2^{nd} or onwards columns, users will be able to see the respective predecessor work item which is linked to it in a path.

   The same principle shall be applied for other linked work items in 2^{nd} or onwards columns if they have more than one link.

   The enhancement facilitates user operations such as filtering, sorting, and other functions on the generated file.

3. **UI and icons updates in Editor tab for both Horizontal and Intersection Matrix options.**

   Users can now experience a better understanding when creating a traceability matrix. In the Horizontal Matrix, label text has been added at the top to clarify the task to be performed in a particular tab. In the Editor tab, the Work Item, Query, and Multi-Query icons have been updated in both types of matrices (Intersection Matrix and Horizontal Matrix), along with the checkboxes text.

4. **Support to access test reporting in trace analysis exclusive to Enterprise Plus License holders.**

   Users with an "Enterprise Plus" license will be able to utilize the "Test Reporting" option in Trace Analysis exclusively. For others, this feature is disabled, accompanied by a tooltip on the "Test Reporting" option indicating its exclusive support for Enterprise Plus licenses.

5. **Support to display the date-time pattern in the "Details" field of Test Results in Trace Analysis with the configuration defined in the admin panel.**

   Users will be able to customize the date-time pattern displayed in the "Details" field of Test Results within Trace Analysis, in alignment with the settings defined in the admin panel.

2. Bug fixes

1. Fixed an issue where the test suite dropdown was closing when clicking on a checkbox in the test suite.
2. Fixed an issue where test suite data was not appearing in the Trace/Test hub smart report if the number of suites exceeded the 200 limits.
3. Fixed an issue where custom work items were not appearing in editor tab of Horizontal Matrix.
4. Fixed an issue where date-time pattern was not reflected correctly in the Test API smart part/Trace as defined in the admin panel.
5. Fixed an issue where an extra row was appearing in the HM MultiQuery, when a specific link type was selected.
6. Fixed an issue where the “Edit WI” option was not functioning properly.

Baseline

1. New features

1. Details added in Baseline Difference Report as per the applied filter on grid.

During the baseline comparison, in a grid a user can apply a filter on work item fields such as ID, work item type, title, etc. Once the filter is applied, the grid shows only work items with respect to the filtered result. Now, upon generating the Difference Report from filtered view, it shall include only the filtered data.

This functionality is supported for all types of baseline comparison either to a current version, baseline, or an ADO Query. Also, this will be applicable for all types of reports, Summary Report and Detailed Report.

2. Bug fixes

1. Fixed an issue where Repro steps, system info and acceptance criteria fields of a work item were not rendering properly in difference report.

Diagram

1. Bug fixes

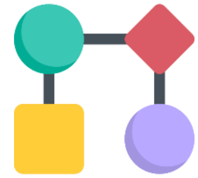
1. Fixed an issue where on toolbar Move back, Backward, Front and Forward icons were not working.
2. Fixed an issue where, when we drag the diagram part and move it to a different place the check in/save option does not work properly.
3. Fixed an issue where the diagram was creating too much left indent/space when publishing the scenario or use case from the analysis tab.
4. Fixed an issue where on Analysis tab, there were no ending point shown when select the one of the Test Case from right panel.
5. Fixed an issue where the drill down option was not working in the existing use case.
6. Fixed an issue where the new mockup file was not opening after adding through drill down.
7. Fixed an issue where all paths were not getting detected for test case generation in the right panel of analysis tab.

Simulation

1. Bug fixes

1. Fixed an issue where unable to close feedback request pop-up on any mockup file.
2. Fixed an issue where the UI gets disturbed on ADO window when change the formatting of the row in a table.
3. Fixed an issue where unable to delete and insert the rows on details tab.
4. Fixed an issue where, when we click on the "Check in changes" button from a Save dropdown, the Save button is enabled, and the dropdown was working fine.
5. Fixed an issue where, when click on the "Check in changes" option, the delete, copy, save and undo/redo button changes.
6. Fixed an issue where, when a Folder is created on the Simulation module the same folder is automatically created on the Use Case module and vice versa.
7. Fixed an issue where the file created in the Use case module was deleted automatically if it was placed in a folder with the same name that also existed in the Simulation module, and then that folder was deleted from the simulation module.
8. Fixed an issue where the OK button was not working on the Goto URL pop-up and the action is not saved.
9. Fixed an issue where the checkboxes were not shown on the Smart report window and on the ADO window.
10. Fixed an issue where the float property pop-up was shown on the browse page when click from the breadcrumb.

Use Case



1. Bug fixes

1. Fixed an issue where the diagram tab arrow lines have changed.
2. Fixed an issue where all the options on the toolbar got disabled when performing the delete table functionality.
3. Fixed an issue where Save, Comment and Delete icons are inconsistent in Use case as compared to Diagram and Simulation.
4. Fixed an issue where the file is not created until the browser is reloaded.
5. Fixed an issue where errors occur on renaming the branch.
6. Fixed an issue where unable to add the steps to the alternate scenario when the step is deleted with the numbering.
7. Fixed an issue where the diagram changes its connected lines when switching between the Diagram/Steps/Details tabs.
8. Fixed an issue where the table column(s) were expanding when adding a text in a table.

Impact Assessment

1. Tool Enhancements

1. Support for Customized links.

Support for customized links has been added as well. Users can add customized links as well.

2. Updated the Sign out button.

The "Sign Out" button icon is updated to new image as we have in other modules.

3. Session Validation for license is implemented on most of action and feature area.

- File Delete and Rename function on Impact Assessment Main page.
- Navigation function on Impact view page.
- Email option/function in Document View.

2. Bug fixes

1. Fixed an issue where user is unable to add work items through query.
2. Fixed an issue where Icons were not appearing when user is using Impact Assessment in offline mode.
3. Fixed an issue where Favorite tab is common for every user.
4. Fixed an issue where spacing is not correct in the text of filter by keywords.
5. Fixed an issue where in case of any long name URL mapped to on prem ADO server URL, its causing issue and URL was not picked up by Impact Assessment correctly.
6. Fixed an issue where 'Notes' is written instead of Summary in the Email page of document view.

Document Management

1. Introduction:

Introducing the new Document Management (DM) module by Modern Requirements4devops (MR4DO). The Document Management module brings a comprehensive document management feature designed to cater to the needs of our customers in the DevOps environment, empowering users with seamless document(s)/folder uploading, organizing, and managing capabilities. The Document Management module streamlines workflows within ADO and MR4DO.

Collaborative work becomes effortless with the check-out and check-in functionality, ensuring smooth version control. In a distributed environment where multiple stakeholders or teams are working on different documents, versioning of the document not only provides efficient baselining but also allows users to select any previous version and, if required, rollback to any previous version.

Document Management also provides an additional capability to MS-Word documents where users can compare all different versions of a document while viewing it at the same time.
The intuitive user interface enables viewing, renaming, and removal of documents and folders, providing a streamlined and efficient document management experience for all Azure DevOps users.