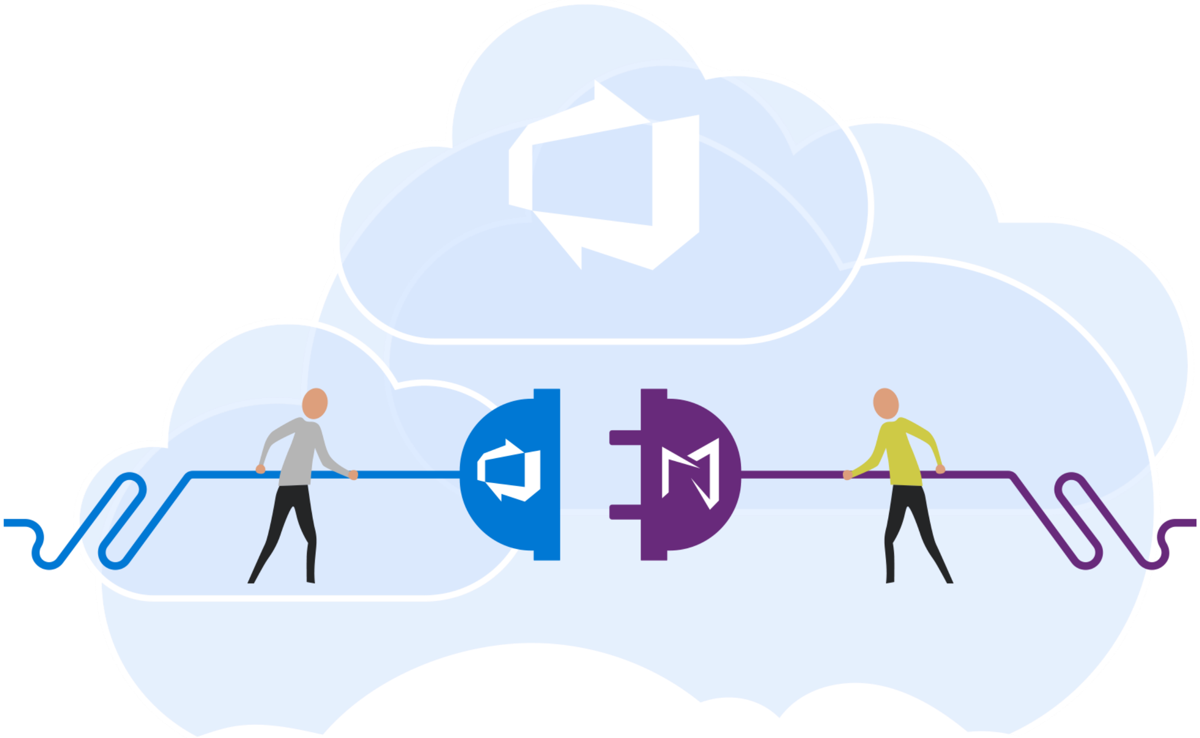
Modern Requirements4DevOps

Modern Requirements4DevOps 2024 Update 1 Release Notes



Modern Requirements
6/25/2024

TABLE OF CONTENTS

1. Introduction

This document contains the notes for the 2024 Update 1 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. New Features

1. Introducing News/Tips option

The News/Tips feature shall now be available in Modern Requiremnts4DevOps on the browse page of each module. It will enhance users' experience by providing a centralized notification system. This feature will allow users to receive and filter important updates, alerts, and tips directly from the main interface, ensuring no critical information is missed.
Users can also view categorized tips, navigate detailed content, and stay informed about new features, updates, and upcoming events without leaving their current workflow.

2. Error message for restricted folders using 'Save to Library'

Implement the error messaging for saving files to restricted folders using 'Save to Library' This message will inform the user that a "You do not have permission for [Folder name] in Document Management.

2. Change Request

1. Smart Editor hidden when Compare tab and Version is opened

The Smart Editor option will be hidden or disabled in the right panel of the Smart Docs and Version Package modules under the following conditions:

- When navigating to the Compare tab and opened the right panel.
- When opening any version and opened the right panel option from the Document and Compare tabs.

3. Bug Fixes

1. Fixed an issue where after renaming the custom work item type (small to caps and vice versa), only 'Stakeholder Requirement' WIT was showing with both titles in MR.
2. Fixed an issue where the linked diagram page was not loading from Smart Docs when a diagram file was created under the Diagram subfolder.
3. Fixed an issue where Multivalue fields were showing in MR when picklist control is visible, but field is hidden within control.
4. Fixed an issue where the table layout of steps was not shown aligned on the Smart View window & difference report.

Smart View

1. Tool Enhancement

1. **Azure DevOps 'MultiValue' custom control support in Smart View.**

   The support of Azure DevOps custom control 'Multivalue control' is now provided in the Smart View. 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 on the Smart View, even if it is hidden in the ADO Standard editor window. Multiple values will be shown with semi-colons separated on the Smart View.

2. **Support for Maximized HTML and Non-HTML fields in Smart View.**

   Users can now view maximized HTML and Non-HTML fields in Smart View. If a work item page contains only HTML or Non-HTML fields, it will be displayed horizontally, occupying the entire area.

2. Bug fixes

1. Fixed an issue where the vertical scroll bar was not showing on Smart View windows.
2. Fixed an issue where 'Due date expired' was written on Smart View in the review status column for older created review work items.
3. Fixed an issue where the 'Rev' column was not shown on the links tab on the Smart View window for older created reviews and baseline work items.
4. Fixed an issue where the hyperlink was not opening correctly from the Smart View description field.
5. Fixed an issue where Version 1 was shown and selected in second dropdown for work items with one version only.

Admin Panel

1. New Features

1. Download Audit Log

Users can now download an Audit log report for Modern Requirements from the admin panel through “Download Audit Log” option as an Excel file. The report tracks changes, detailing project ID, name, actor, timestamp, area, category, and specific event descriptions. It covers various areas like MR Admin Panel, Project Permissions, Smart Doc meta/document template and Smart parts under Smart Report designer.

2. Tool Enhancements

1. Description updates in "Auto Save Layout Option" in General settings

We’ve updated the description under the 'Auto Save Layout Option' in the Admin Panel, General settings. It now reads: *"This section outlines the Auto Save option for Diagram, Simulation, and Use Case modules, which automatically saves changes such as creating or deleting new or existing links, performing drill-down on shapes and publishing scenarios, use cases, and test cases.”*

3. Bug fixes

1. Fixed an issue where the password was showing in plain text in the General tab for the ‘configure e-mail settings’ section.

Version Packages.

1. New Features

1. Save Version Package directly into Document Management

Users can now save a version package directly into Document Management. An option 'Save to Library' is provided on the Version Package toolbar under the 'Save As' dropdown, along with other option such as MS Word and PDF.

Upon selecting the "Save to Library" option, a popup titled "Save to Library" appears, allowing users to set a default title or customize it as needed. Users can select a folder from the folder structure that exists in Document Management. Users can choose or upload their custom Word templates if needed and save them in MS Word or PDF format.

Note: If a file with the same title already exists in Document Management, a message is displayed when saving the file again. This message informs 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, a message is displayed. This message informs the user that a *"File with the same name already exists and is currently being checked out. Please rename or check in the existing file."*

2. Tool Enhancements

1. Performance optimization on Comparing versions and opening package templates from the info tab.

Users will now experience improved loading times when comparing version(s) of the Version Package. Loading the current version or comparing versions will be faster than previous releases.

2. Performance optimization on opening package template from the info tab.

Users will notice improvements when opening the package template from the info tab, with loading times faster than in previous releases.

3. Bugs fixes

1. Fixed an issue where continuous loading was showing on the version package browse page.
2. Fixed an issue where the user could not create the linked package from the work item context menu.
3. Fixed an issue where user was unable to add tags in while creating version package.
4. Fixed an issue where the menu bar was cutting off when comparing with a Version.
5. Fixed an issue where text was cutting off on the 'Update Template' popup.

Copilot4DevOps

We are excited to announce the release of Copilot4DevOps, an enhanced version of the original Copilot4DevOps, now available in Modern Requirements modules, "Smart Docs" and "Version Package Management (VPM)" modules as well as from the Azure DevOps extensions points (Work item window, Queries and Backlog tabs). **Please note that this new version of Copilot4DevOps replaces the previous version of Copilot4DevOps.** This new version introduces a range of new features and improvements aimed at enhancing the user experience. With Copilot4DevOps, users will benefit from an upgraded, user-friendly interface that offers smoother navigation and increased efficiency.

The Copilot4DevOps feature can be accessed from the respective modules "Smart Docs" and "Version Package Management (VPM)" tool bar and work item context menu as well.

1. New Features

1. Home Page – added new features

Copilot4DevOps homepage is designed with a streamlined tile view, allowing users to quickly select and navigate to the desired functions. Each function is represented by a dedicated tile, offering a clear and concise overview of its capabilities.

The homepage consists of three icons:

a. **Settings Icon**
Located at the top right of the homepage, this icon provides access to some important settings. Clicking on this icon reveals four key options:

1. **License Status:**
The License Status feature ensures that users have quick access to vital information regarding their product licenses, offering clarity and ease when checking activation details.
    i. **Activation Status:** Confirms that the product is activated, allowing users to fully access all features.
    ii. **License Type:** Displays the license type as online, indicating that the product requires an internet connection for activation and use.
    iii. **License Duration:** Specifies that the license is permanent, ensuring that the product will remain fully functional without any expiration.

2. **Token Status:**
The token status provides users with real-time insights into their token usage. This feature is essential for tracking and managing resource consumption effectively, ensuring users stay within their token limits.
    i. **Token Used**: Displays the total number of tokens consumed to date, helping users monitor their usage.
    ii. **Token Limit**: Shows the maximum number of tokens available within the user's plan, offering clarity on resource boundaries.
    iii. **Quota Start Date**: Indicates the start date of the current quota period, giving users context on their token consumption timeline.
    iv. **Progress Bar**: A visual progress bar represents the percentage of tokens used.

3. **Submit Feedback**
   Users can now share their feedback directly from the Copilot4DevOps Home page. When they click on the feedback option, the right panel will display three options.
   - Give a compliment
   - Report a problem
   - Make a suggestion

   Users can describe their issue, suggestion, or compliment in the provided fields and may also attach a screenshot if desired. After clicking the Submit button, users will receive an automatic reply confirming receipt of their feedback.

4. **About**
   The "About" section provides users with essential information about the Copilot4DevOps application. It includes details such as the current version, build number, copyright information, and a link to the support page. This section is designed to help users quickly identify the application version they are using and access support resources if needed.

b. Text Block Management

The 'Text Block Management' feature in Copilot4DevOps, which makes it easier for the user to manage and use predefined text blocks within Copilot4DevOps modules like: Dynamic Prompt, Impact Assessment, Diagram, and Document Generator, and additionally, wherever we can write Custom Instructions. This feature is available to all users with a Plus or Ultimate license. It can be accessed from the top right corner of the Copilot4DevOps Home page as well as from within all modules, the difference is, opening from the home page shows all text blocks from "My Text Block" and "Shared Text Block" tabs. Opening from any module shows only the text blocks specific to that module, as the module tag is applied in the filter.

i. <u>Insert Text Block:</u>
   As you type '\' or '\\', a list of your personal or shared text blocks will appear, another way, the 'Insert Text Block' button, available on the toolbar of the modules mentioned above and in the Custom Instruction panel, will help you quickly select the right one. Also you can reuse the existing text blocks by clicking on the 'Insert Text Block' button from the toolbar of the Description panel in the "Text Block Management" window that lets you insert existing text blocks directly into your description.

ii. <u>Text Block Interface:</u>
   It includes two main tabs: "My Text Blocks" for your personal entries and "Shared Text Blocks" for blocks shared by other users. The interface allows you to add, update, clone or delete text blocks easily,
   1. <u>Add a new text Block:</u>
      You can add a new text block by clicking a '+ New' option from the toolbar. All text blocks will automatically start with a designated character ('\' for personal blocks and '\\' for shared ones), each text block must have a unique name.
   2. <u>Cloned text Block:</u>

Cloning a text block allows you to create an exact copy of an existing text block under a new name. You can Clone any text block from the context menu.

3. Delete text Block:

   You can Delete any text block from the context menu. Upon clicking the "Delete" button a confirmation popup will appear to the user to verify the decision.

c. News/Tips Icon

The News/Tips feature enhances user experience by providing a centralized notification system. This feature allows users to receive and filter important updates, alerts, and tips directly from the main interface, ensuring no critical information is missed. Users can view categorized tips, navigate to detailed content, and stay informed about new features, updates, and upcoming events without leaving their current workflow.

2. Impact Assessment

We are excited to introduce a powerful new feature in Copilot4devops: Impact Assessment. This feature is designed to help you evaluate the potential impacts of changes made within your projects, ensuring you can make informed decisions with confidence. This is organized into two main tabs: 'Prompt' and 'Result'. The Impact Assessment tool offers two modes to perform assessment: based on Explanation and Work Item(s).

a. Prompt tab: In Explanation mode, you can define your changes in an explanation format in the left panel, and in the right panel, select the work item(s) on which you want to view the potential impact.

In the Work Item(s) mode, you can select specific work item(s) in the left panel to define the required changes. In the right panel, you can choose work items on which you want to see the impact.

b. Result tab: Once you have defined the changes and selected the source work items, click Perform Analysis to switch to the Result tab. Here, you can view the impact analysis in a tabular format, along with explanations and tasks displayed in the right panel. You also have the option to save the results in Word or PDF formats, making it easier to document and share your findings.

This new feature aims to enhance your workflow by providing clear insights into the consequences of your changes, ultimately supporting better project management and decision-making.

3. SOP/Document Generator

Users can now see an additional tile in the Copilot4DevOps environment named 'SOP/Document Generator'. This feature is helpful to create documents tailored to specific document, products and industry type. This feature can invoke on single selected work item or on multi select as well. This is organized into two main tabs: 'Prompt' and 'Result' and these tabs will further divided into the following two panels respectively:

c. **Prompt tab:** The 'Prompt' tab, selected by default, features a left/right panel with toolbar options for 'Open', 'Save', and 'Save As'. Users will encounter four input fields and a prompt or explanation multiline field, with Document Type, Industry Type, Application/Product Type and Standards (Clicking on this a call to the LLM to retrieve relevant standards from the suggested standards to ensure compliance with the specified document and industry type), out of these the Document Type/Title field is the only mandatory field.

   i. Left Panel: Allows you to input their prompt in a non-HTML multi-line field.
   ii. Right Panel: The Right Panel shows reference work items (work items that have been selected before invoking the Copilot window) that users can select or ignore using a toggle button. And also user can select the other work item(s) by clicking on 'Select work item(s)', here, you can add multiple work items through a query, as well as add a single work item.

   In this prompt tab, there is a "Generate TOC" button. When clicked, the user will automatically move to the Results tab, and based on the information provided above, a Table of Contents generated in the left panel of the Results tab.

d. **Result tab:** The Result tab divides the panels into a 25/75 ratio, (25% allocated to TOC section and 75% to the Document View section)

   i. Left Panel: You can see the generated Table of Content (TOC), you can edit your TOC like add, delete, and move section(s). This panel is further divided into two sub-tabs: HEADINGS and SEARCH RESULTS, along with a search box. The HEADINGS tab opens by default, showing all sections of the generated table of contents (TOC). The RESULTS tab displays search results based on your input in the search text area, including the count of matches. You can also use the up and down buttons to navigate through the search results.
   ii. Right Panel: Users can also generate document of the generated Table Of Content by clicking on the Generate Document button or link, the right panel presents the full document view, enabling users to scroll through and see how sections correlate with Table of Content (TOC).
   The user can optionally provide additional explanation to generate the well-structured, detailed, and impactful document using the text field at the bottom.

e. **Save As MS Word/PDF:** User can save the document after generating the details as Microsoft Word or PDF. Click the 'Save As' button to save the document, choose either 'MS Word' or 'PDF'; it will download with the [Document_Type] name based on the backend template.

4. **Q&A Assistant**

Users can now see an additional tile in the Copilot functions named ‘Q&A’. This feature is helpful in generating questionnaires for a given topic. Through this feature, users can add a “Topic” to elicit, which in turn will display data in the following two panels respectively:

a. Left Panel: In the left panel, all the questions for the entered topic are generated and displayed and users can select any question to view its respective detail in right panel.

Users can also check to publish the answer only or question and answer both to selected questions.

b. Right panel: In the right panel for every question, "Question", "Question Explanation", "Answer" and "Summary of answer" is generated and displayed.
c. Create work item: Users can choose publish answer through "Create work item" option, upon which users can select "Work item type" to publish the answer on the selected work item and select "Work item field" to add summary of answer in. It is up to the user to add question and its explanation in the work item through the checkbox setting by default it is checked and can also choose to select question and insert as separate work item through the checkbox "Insert question as work item". Tag(s) can also be added for the work item being created and published.
d. Open work item in the ADO editor: After publishing the Answer or Question and Answer both the work item ID is shown before the Question in the left panel, and clicking on the ID will open the work item in the ADO editor.
After publishing the Answer or Question and Answer both users can open the published work item in any other Copilot4DevOps function, by clicking at the Copilot4DevOps icon at the end of row which displays a dropdown menu.

5. Create No-code prototype

Copilot4DevOps introduces the 'Create No-Code prototype' function, designed for seamless no-code app creation. Users can input an alphanumeric 'App Name' (up to 50 characters) and an optional description (up to 500 characters).

As users navigate through the interface, they will view 'Recommended Objects,' 'Recommended Properties,' and 'Recommended Object Relations.' Upon clicking 'Create App,' the user will be navigated to Codeless ONE in a new tab. This streamlined process enhances the efficiency of app creation.

6. Diagram

Users can now access an additional tile in the Copilot4DevOps environment called 'Diagram'. This feature enables users to create diagrams and can be invoked for a single selected work item or multiple selected work items. It is initially organized into two main tabs: 'Prompt' and 'Diagram', each further divided into two panels.

a. **Prompt tab:** The 'Prompt' tab, selected by default, features a left and right panel with a toolbar option to select a diagram type.
    a. Left Panel: Allows user to input their prompt in a non-HTML multi-line field.
    b. Right Panel: The Right Panel shows context work item(s) (work item(s) that have been selected before invoking the Copilot window) that users can select or ignore using a toggle button. And user can also select the other work items by clicking on 'Select work item(s)'
b. Users can either enter a prompt or select work items for context to generate diagrams automatically.

Once all mandatory fields are filled, users can click the Generate button to create a Diagram, which will appear in the Diagram tab.

a. **Interactive Diagram Interface:**
The "Diagram" tab provides an interactive interface for viewing and updating diagrams. Features include zoom in/out, opening diagrams in a new window, a bottom prompt area for entering updates, and a right panel for editing Diagram Markdown to modify the diagram in real-time.

b. **Explanation:**
Once the diagram is generated, an "Explanation" tab will appear next to the "Diagram" tab. Users can navigate to this tab and click on "Generate Explanation" to view a detailed explanation of the diagram. Additionally, users have the option to update the explanation using the prompt area provided below.

c. **Connected and Sub-Diagrams:**
Enhance your main diagrams by generating connected diagrams to visualize complex relationships. Create sub-diagrams to break down intricate diagrams into smaller, more manageable segments, improve clarity and support better decision-making.
The Diagram Module includes a hierarchical view, enabling seamless navigation between main diagrams and sub-diagrams. The Sub Diagram tab is available in the right panel.

d. **Publishing and Saving:**
Users can publish diagrams to existing or new work items, with options to include explanation and diagram markdown. Save diagrams as Word, PDF, or image files, ensuring easy sharing and documentation.

7. **Elicit and Q&A Assistant – Open published work item in other Copilot4DevOps function.**

The Elicit and Q&A function has been enhanced to provide users with more efficient navigation on published work items. Users can now hover over or select a work item row to display a Copilot4DevOps icon. Upon clicking this icon, a dropdown menu will appear, offering quick access to other functions within Copilot4DevOps. Clicking on any function from the dropdown menu will navigate the user directly to the selected function, enabling them to carry out their intended tasks efficiently.

8. **Admin Panel sections.**
   i. **General Tab**
   a. **Entra ID Management in Copilot4DevOps**

Copilot4DevOps introduces a new feature for managing Microsoft Entra ID (formerly Azure Active Directory) within the platform. Located in the 'General' tab under the 'Copilot4DevOps' tab of the admin panel, this enhancement allows administrators to enable Entra ID by checking a dedicated checkbox. Once enabled, administrators can provide organization-wide admin consent, granting Copilot4DevOps access to specified resources for all users. This eliminates the need for individual users to review permissions, streamlining access management and improving organizational integration with Entra ID.

b. **Tag Visibility Control in Copilot4DevOps**

Copilot4DevOps introduces a new feature that allows admin users to control tag visibility through a checkbox in the 'General' tab, located under the Copilot4DevOps tab within the admin panel. A checkbox labeled 'Allow Copilot4DevOps to add a tag into the published work item' allows users to toggle tag visibility. By default, this option is selected. When checked, tags will be published across various functions in Copilot4DevOps. Conversely, unchecking the box will prevent tags from being published. This enhancement provides greater flexibility for organizations in managing how tags are handled. For users with ADO Stakeholder licenses, tags will not be published, regardless of the setting in the General tab.

c. Function tiles visibility on Home Page of Copilot4DevOps

Admin users now have the capability to customize the visibility of Copilot4DevOps function tiles on the home page. A new section, Configure Copilot4DevOps Functions, is available under the General tab in the admin panel. This section includes a multi-select dropdown labeled "Show Copilot4DevOps functions," allowing admin to select specific functions or utilize an "All" option to display all function tiles. By saving their configuration, admin can ensure that only the selected functions are visible on the home page and in the breadcrumb, thereby creating a more streamlined experience for end users.

ii. Configure LLM - Large Language Model from the Admin Panel.

A new tab named 'LLM (Large Language Model)' is located after the Licensing tab. This tab enables user to configure the Copilot versions to determine whether users should use the default model or their own custom LLM model. To configure Large Language Model - LLM section provides options to select the AI service and model versions.

Users can choose between:

1. **Use default LLM:** Users can select the 'AI Service' and 'AI Model' from the respective dropdown menus. In the 'AI Service' dropdown, users can choose between OpenAI and AzureAI. Based on the selected service, the available models for that service will appear in the 'AI Models' dropdown menu, and the user can select more than one model from the AI Model dropdown.
2. **Use my LLM:** If the user opts to use their own LLM, they must provide all required details, including Service, Model, URL, Key, and Token limit. For AI services like AzureAI and OpenAI, users will need to enter specific information based on their selection:
   - **OpenAI**: After selecting OpenAI from the AI Service dropdown, users must provide the AI Service Secret Key and enter AI Models in the respective textbox. Multiple models can be added by separating them with commas.
   - **AzureAI**: When AzureAI is selected from the AI Service dropdown, users need to provide the AI Service Secret Key, the AI Models, and the AI Service URL in their respective textbox.
     In both cases, users can specify their token limit or choose to set it to no limit using the radio button. All configuration fields are mandatory, and the system will display error messages if any information is incorrect or incomplete.

Note:

- When the user using their own LLM must acquire the "BYOD with BYOLLM" license type. And when the user switches to their own LLM, all the data set in BYOD will be removed with the user's permission.
- LLM models, such as o1 Preview and o1 Mini, are not supported for BYOD

- If users are utilizing AzureAI, whether through default LLM or their own LLM, the BYOD feature will be disabled.

iii. **BYOD - Bring Your Own Data Feature for Uploading and Managing Custom Data with Synchronization Capabilities for the Query, Wiki sections in Copilot4DevOps extension.**

A new tab named 'BYOD' Beta version which stands for 'Bring Your Own Data' has been added under the Copilot4DevOps tab in the Admin panel of the Modern Requirements. This feature is available only when the user has an activated BYOD license.

a. **BYOD License types**

There are two types of BYOD license,

i. Using 'BYOD with default LLM': Users without a basic license of BYOD, i.e 'BYOD license' will see a red-highlighted message prompting license activation. Once activated BYOD license, the successful message will show on top right, indicating access to BYOD features.

ii. Using 'BYOD with own LLM': When the user using their own LLM must acquire the "BYOD with BYOLLM" license type. And when the user switches to the own LLM, all the data set in BYOD will be removed with the user's permission.

If the user uses o1 models like o1 Preview and o1 mini, they will not be able to use the data uploaded in BYOD tab because these two models are currently not supported for this feature. And, If users are utilizing AzureAI, whether through default LLM or their own LLM, the BYOD feature will be disabled.

b. **Data Management:**

In this 'BYOD' tab, User can feed their own knowledge base data in order to generate the output based on both user-uploaded content and global/public data when the 'Data Retrieval' toggle is On. You can add your data by uploading the document(s), adding work items through shared queries, and Wiki pages from Azure DevOps projects.

i. **Add File:**
Upload document(s) from anywhere on your device here in this section, you cannot upload image format files, and it should also be practiced that the files uploaded do not contain any images. The files that the user can upload must have the following extensions: no other file types will be accepted, (.c, .cpp, .cs, .css, .doc, .docx, .go, .html, .java, .js, .json, .md, .pdf, .php, .pptx, .py, .py, .rb, .sh, .tex, .ts, .txt)

ii. **Add Query:**
Add work items data by selecting the queries (Only the queries that are part of the shared queries) exist in the Azure DevOps. For retrieval, it will consider the data of each work item including the configured field(s) and details of linked work item(s) if exists within the same query.

iii. **Add Wiki Pages:**

Select the Wiki Pages for this section that are available in the Azure DevOps for the selected projects.

Additionally, there is manual sync functionality for Query Data and Wiki Pages, allowing users to sync data on demand. The total upload limit is 100 GB for users operating under the Standard BYOD license.
On the top right, you can find a "**Delete All**" button. Clicking on the "**Delete All**" button deletes each and every data uploaded within the BYOD, and you can individually delete each uploaded data by clicking on any uploaded file and then navigating to the "**Delete**" button in all the three sections.

2. Tool Enhancements

1. Licensing - Lite, Plus, and Ultimate Plans

Copilot4DevOps offers three distinct types of licenses, each with its own set of features that are built upon the previous one, providing progressively advanced capabilities.

Lite License grants access to foundational features that include the ability to:
1. Elicit
2. Analyze
3. Conver
4. Transform

These functions enable users to gather, interpret, and refine requirements into actionable outputs efficiently.

Plus License expands on the Lite License by adding advanced functionalities such as
1. Impact Assessment
2. Q&A Assistant
3. Dynamic Prompt
4. Custom Instructions and AI Model selection directly from the top-right breadcrumb for all functions.
5. Test Case (Integration) under the Elicit function.
6. Text Block Management
7. Create No-code prototype

These features empower users to perform deeper analysis, streamline decision-making, and customize interactions, ensuring efficient and adaptable requirement management.

Ultimate License is the most comprehensive offering, incorporating all features from the Lite and Plus licenses while introducing powerful tools like
1. Diagram
2. Generate
3. SOP/Document Generator

This license is tailored for collaborative and enterprise-level needs, ensuring teams can manage complex projects efficiently.

2. Elicit - "see more…" Option for Additional Results

The "See More" Option in the Left Panel now allows users to view additional results by clicking the 'See more…' option at the bottom of the list, which fetches 10 more work items, enabling users to review more data without needing to re-generate the initial results. With this enhancement, the "No. of records" dropdown, previously used to select the number of displayed results, has been removed for a more streamlined experience.

3. **Elicit – Enhanced context with Parent work item information**

   The Elicit function now includes an important enhancement that improves result accuracy by incorporating context from linked work items. When generating results, the system will automatically include the title and description of the immediate parent work item (if it exists). This enhancement ensures that users receive refined results while leveraging relevant information from the parent work item, providing a more comprehensive context.

4. **Elicit – Integration Test Case Generation**

   The Elicit function now includes a Test Case (Integration) option in the Create dropdown menu, allowing users to generate Integration Test Cases efficiently. Users can select a linked work item type and corresponding fields, after which they can generate titles for the test cases (integration) based on the selected work item and its linked items. The generated test cases (integration) titles will display in the left panel, while detailed descriptions, test steps, and expected results will appear in the right panel. Upon publishing, the Integration Test Cases will be linked with the Test Case work item in Azure DevOps, streamlining the process of creating comprehensive integration test cases.

5. **Elicit – Drill down on the published work item for further elicitation**

   Once work items are published in "Smart Docs" and "Version Package Management" grid, the associated checkboxes in the Left Panel will remain checked. Additionally, the Work Item ID is now displayed before the title in the Left Panel, and clicking on the ID will open the work item directly in the ADO editor, with any updates made in the ADO editor automatically reflected in Copilot4DevOps. The Title in the Left Panel is now a hyperlink, and clicking it will update the view, adding the Title, Work Item Type Icon, and ID to the breadcrumb for easier navigation. This allows users to open and perform the elicit function on a new work item up to 6 levels, while the breadcrumb enables smooth navigation between work items, preserving their previous state.

6. **Elicit - New and Existing Link(s) Tabs for accessing and drilling down on existing linked work items**

   The Elicit function has been enhanced with two distinct tabs: "New" and "Existing link(s)," enabling more efficient management of work items. The "New" tab retains its original functionality for eliciting new work items, while the "Existing link(s)" tab allows users to view and interact with all linked work items for the selected work item. At the top of the "Existing link(s)" tab, the links count will appear, initially displaying up to 50 linked work items sorted by ID in descending order, users can filter these items by Work Item Type, with 'Any' selected by default. The left panel shows the work item ID, link type, and title of each linked work item, along with checkboxes for selection. Clicking the ID opens the work item in the Azure DevOps editor, allowing edits that reflect in Copilot4DevOps, while clicking the title navigates to the "New" tab for further elicitation. If no linked items are present, a message stating "No links exist for the selected work item" will be displayed to inform users. The right panel will display the corresponding field data selected from the Fields dropdown. The options "Generate" and "Create linked work item" will not be available under the "Existing link(s)" tab, allowing users to navigate seamlessly between tabs while preserving their selection context.

7. Analyze - New methods added to Analyze requirements

The Analyze function in Copilot4DevOps has been enhanced to support multiple analysis methods, including the 6Cs Method, INVEST Mode, MoSCoW Method, PABLO Criteria, and SWOT Method, allowing users to extract valuable insights using different approaches. Users can now select the desired work item HTML field(s) along with the title from the "Analyze" dropdown and perform analyses based on the parameters of the chosen method, such as "Clear," "Concise," and "Complete" for the 6Cs method. The system will rate the work item data according to these parameters, and results will be generated in a tabular format for all selected fields.

8. Dynamic Prompt – Selected work items added as context along with Query.

The Dynamic Prompt function in Copilot4DevOps has been enhanced with a valuable new feature, alongside the existing Query context option, a new Selected Work Item(s) context is now available in the Prompt tab, selected by default. This allows users to directly select fields from a dropdown menu, and the chosen field data is used as context for generating results based on the provided prompt. This enhancement offers a more streamlined and efficient way to produce dynamic results tailored to specific work items.

9. Handling Missing Required Fields During Work Item Publishing.

The system now enables users to address missing required fields directly during the publishing of work items from Copilot4DevOps. Instead of encountering errors, an Azure DevOps pop-up will appear for each affected work item with missing required fields, allowing users to manually fill in the required fields. This functionality applies to all features supporting work item publishing, including Elicit, Convert, Q&A Assistant, Generate, and Diagram.

3. Change Request

1. Convert

Introducing Convert function in Copilot4DevOps, which merges the following three functions previously supported individually:

- Convert to Gherkin
- Convert to User Story
- Convert to Use Case

While the functionality of each of these conversions remains intact, they are now merged into a single, streamlined Convert function. Users can select a work item field from the Given Input dropdown and choose their desired format from the Convert To dropdown—User Story, Use Case, or Gherkin, with Gherkin pre-selected.

2. Transform

Introducing Transform function in Copilot4DevOps, which merges the following four functions previously supported individually:

- Summarize
- Paraphrase
- Translate

- Elaborate work item

While the functionality of each of these functions remains intact, they are now consolidated into a single, streamlined Transform function. Users can select a work item field from the Given Input dropdown and choose their desired transformation type from the Transformation Type dropdown—Translate, Summarize, Paraphrase, or Elaborate, with Summarize pre-selected.

3. Generate

Introducing Generate function in Copilot4DevOps, which merges the following two functions previously supported individually:

- Pseudocode
- Test Script

While the functionality of each of these functions remains intact, they are now consolidated into a single, streamlined Generate function. Users can select a work item field from the Given Input dropdown and choose their desired generation type from the Generate dropdown—Pseudocode or Test Script, with Pseudocode pre-selected.

4. Generate (Pseudocode) – Addition of new Programming Languages

The Programming Language dropdown in the Generate - Pseudocode function now includes Data Definition Language, JSON Schema, XMI, and XML along with all previously available programming languages.

5. Generate (Test Script) – Addition of new Framework

The Framework dropdown in the Generate – Test Script function now includes MSTEST, PLAYWRIGHT and Xcode along with all previously available Frameworks.

6. Left and Right Panels non-editable across all functions

The left and right panels have been made non-editable across all functions in Copilot4DevOps to provide a cleaner, more simplified interface.

7. Copilot4DevOps in FAQ Module.

The Copilot4DevOps feature is currently unavailable for the FAQ module in this version. This functionality is not supported at the moment. It may be included in a future release.

Smart Docs

1. Tool Enhancements

1. Froala version integration

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

2. Performance Optimization for Open Smart Docs Template from the "Open Template" option in the Smart Docs Grid toolbar

Users will now experience significantly improved performance when opening Smart Docs templates through the "Open Template" option in the Smart Docs grid toolbar.

2. Bug fixes

1. Fixed an issue where Table row style in Smart Editor was inconsistent, and last row of a table was not showing.
2. Fixed an issue where background color in Smart Editor applied on the text also got applied on the table text in a Word Export File.
3. Fixed an issue where test steps were not shown on grid in work item hierarchy when Smart Docs file was created through document template containing work item type "Test Case".
4. Fixed an issue where updated work item label and default properties were not shown on the Smart Docs grid after copy/paste was performed.
5. Fixed an issue where Right panel did not remain open on switching tabs but Smart Editor/search options were showing selected in Right panel dropdown.
6. Fixed an issue where the column options were not displaying the updated field values of work items, except for the description, until a refresh was performed.
7. Fixed an issue where changing work item type was not updating a red-highlighted work item to pink-highlighted.
8. Fixed an issue where hidden work item (Code review request) was being added on the Smart Docs grid.
9. Fixed an issue where added fields from meta template were not showing as green on save as word/pdf.
10. Fixed an issue where continuous loading was showing on restoring a template which was already an existing template with and without case sensitive letters.
11. Fixed an issue where, when the column toggle button was set to off, it turned on upon file switching, but the configured columns were not visible on the grid.
12. Fixed an issue where on open version, options which are not part of Right panel dropdown were being selected.
13. Fixed an issue where no warning was shown for loss of edit on title change in Smart Editor of Right panel.
14. Fixed an issue where, when unmatched area path/iteration path value was found, the entire area path/iteration path was not being appended in target project.
15. Fixed an issue where continuous loading was showing when updating read-only title field from Smart Docs grid.
16. Fixed an issue where work item details (description etc.) were not appearing even when Document view was enabled when user applied "Drag and Drop".

17. Fixed an issue where work item was displaying invalid message when changing the work item type other than the ones allowed in the template.
18. Fixed an issue where uploaded file(s) in Smart Editor were opening in the current tab when opened from Smart Editor or Smart Docs grid.
19. Fixed an issue where upon using as stakeholder, options other than “Search”, “Links” and “Column options” were enabled in the Right Panel instead of being hidden.
20. Fixed an issue where no error was received when user tried to make the Parent/Root work item as a child of First Level work item when adding links.
21. Fixed an issue where user was unable to find a template, Document Template & work item if the work item was deleted from the Process Template.
22. Fixed an issue where user was unable to "Save as Word" when user saved some specific keywords as property in User-Defined Properties (Document).
23. Fixed an issue where after clicking import button from the Word Import popup, basic templates of all projects were showing in Basic Template node.
24. Fixed an issue where if "Ends at" field is empty, the starts at and ends at functionality is not working properly in paragraph and list in Word Import.
25. Fixed an issue where incorrect buttons were showing when a meta template was deleted.
26. Fixed an issue where other options should be disabled on multi- select work items except options “Expand/Collapse”, “Remove”,” Indent/Outdent”,” Copy URL”, Cross Reference” All References” tab,” Open Template”,” Update Template”,” Edit Work items”.
27. Fixed an issue where query dropdown was showing enabled, and the query was being selected when title was selected in “Insert” option of Right panel.
28. Fixed an issue where buttons got removed or were not displayed instead of being locked when the Permissions were turned off.
29. Fixed an issue where the user was redirected to the Browse Page when clicking some of the added reference point.
30. Fixed an issue where the prompt message was not showing if user selected mandatory and read-only fields to update/edit work item(s) from toolbar.
31. Fixed an issue where the undo and redo options for diagrams were not functioning properly in Smart Docs for diagram work item.
32. Fixed an issue where SD templates were not loading when creating a new Smart Doc.
33. Fixed an issue where users could not map multiple paragraphs to different HTML fields under the same work item with multiple headings in Word Import.
34. Fixed an issue where best fit label and its icon was not showing when meta template was used in another project.
35. Fixed an issue where after opening the work item hyperlink from Smart Editor, it was showing a window within a window.
36. Fixed an issue where Smart docs grid was cutting off when resizing columns on the grid.
37. Fixed an issue where when inserting links from the ADO, the links were opened at the current tab of the window in Smart Editor.
38. Fixed an issue where upon clicking the cross-reference link from compare tab, the user was navigated to the browse page.

Review Management

1. Tool Enhancements

1. Support to provide review responses via Azure DevOps Credentials.

Users shall now be able to provide review responses with "Azure DevOps Credentials". Prior to this support, users were able to provide review responses with their "MR Credentials" and "Personal Access Token (PAT)". Along with "MR Credentials" and "Personal Access Token (PAT)", users have been provided an additional option of "Azure DevOps Credentials" to record the review responses.

By default, "MR credentials" shall be selected in the Review settings under "Approval Authentication Process" in the Admin Panel, but users can change default settings and select "Azure DevOps Credentials" to record their responses. Upon selecting a review response against a work item, the user shall be prompted to provide their "Azure DevOps Credentials" in a new tab. After signing in, the review response shall be performed in the current tab and users shall be able to see their provided response in the right panel.

Users can also select or deselect "Personal Access Token (PAT)" under "MR Credentials" option in the "Approval Authentication Process" in the Review settings of Admin Panel.

Users shall also now be able to view the Approval Authentication Process they have used for providing review responses. The Approval Authentication Process shall be displayed in the comment section of the work item in the ADO beside the e-signature (e.g., e-signed via Azure DevOps Credentials).

2. Performance improvement in Review browse page load time.

Users will now experience improved file loading times. Files in the review module will load faster than in previous releases. The first node (My Requested Review > Active Requests) will be expanded when accessing the review module, while all other nodes will remain collapsed. Files will load upon expanding these nodes.

3. Users will be notified on generating Audit reports for reviews with bulk work items (more than 4000 Work items).

Users will now be notified via a dialog box when generating an audit report with bulk work items. The audit reports (Approval Audit Report, Review Result Report, and Legacy Audit Report) will be processed in the background, allowing a user to perform other tasks in the meantime. If the review moves to the closed state, the audit reports will continue to be processed in the background and will be attached to the feedback request work item once completed.

2. Bug fixes

1. Fixed an issue where review stakeholder was shown as enabled on the 'Update Review' window after adding 'Text-based comment(s)' or 'Submit Comment(s)'.
2. Fixed an issue where the image was not showing on the 'All Comments' tab.
3. Fixed an issue where the horizontal scroll bar was not shown properly on the 'All Comments' tab.
4. Fixed an issue where the tooltip was not showing for 'Smart View' on the review toolbar.

5. Fixed an issue where review status and flags were inconsistent on 'Smart View' for older created review work items.
6. Fixed an issue where the 'Add Comment' icon was shown as disabled when clicking outside of the work item grid.
7. Fixed an issue where the review link in the email was not navigating to the valid URL.
8. Fixed an issue where work item switched to post state on approving other work items in the review.
9. Fixed an issue where incorrect hierarchy was showing on creating review requests for reviews created from Smart Docs.
10. Fixed an issue where text added in the 'Add comment' box and then canceled was shown again when highlighting the same text.
11. Fixed an issue where the 'Add Comment' icon was shown as disabled when selecting text in a column of a table.
12. Fixed an issue where the selected review action was not changing to the default state on closing the review action popup.
13. Fixed an issue where the scroll bar was not shown on the review macro window.
14. Fixed an issue where an error message was showing on creating a review macro.
15. Fixed an issue where the text was getting overlapped on the 'Create baseline' window when creating a baseline from review.
16. Fixed an issue where deleted review action was not shown if already selected and 'undefined' was shown instead.
17. Fixed an issue where the 'Select Word template' popup was shown on generating legacy report after the review was in closed state.
18. Fixed an issue where the "OK" button was shown as enabled on the review action comment pop-up when no text was in the comment box.
19. Fixed an issue where Document view details were showing 'on' even though the document view toggle button was set to "off".
20. Fixed an issue where deleted Review response action was not shown as selected.
21. Fixed an issue where incorrect version id was shown on the review grid.
22. Fixed an issue where continuous loading was showing on screen after giving response on 10K work items as 'Approved all' and 'Reject all.'
23. Fixed an issue where Review was not getting closed with 6K Work items.

Smart Report

1. New Features

1. Support to add a "Separator" after each section through the Designer tab

Users can add a separator after each section to identify that this section data is completed by checking the option "Separator" in the Smart Report designer. This will add a thick separator to the generated report on the report tab as well as in the generated word file.

2. Tool Enhancements

1. Support to auto-select the test suites from the test hub up to the limit configured in the web config using Smart Report

Users can auto-select the sub–Test Suites up to configured limit by selecting the parent test suite. By default, 25 test suites get auto selected as the limit is set in web config but users can adjust it accordingly. If the limit is reached, additional sub–Test Suites won't be selected and shown the error message 'Test Suite limit exceeds'. Unselecting a parent Test Suite deselects its sub–Test Suites.

Note: To generate smart reports, selecting at least one Test Suite is mandatory.

2. Fetching Test Results virtual work item directly from Test Points o generating test report

Users can now fetch test results directly from test points to generate comprehensive test reports. They can add Test Results and Bug work items under Test Points in Smart Report, view properties, and export data to Word. Users can create the following hierarchy to fetch data in the report.

Test plan vs Test suite vs Test point vs Test results vs Bug

3. Support to add more virtual fields from Smart Report on generating test report

Users can now generate test reports with more useful details necessary for test case reports. Virtual fields such as "Config name" and "Last Step Expected Result" fields can be configured under a *Test case* work item. Similarly, virtual fields such as "Steps", "Last Updated Date", "Last Step Expected Result", "Last Step Run Comment" and "Linked Work item Type" can be configured under *Test Point* work item.

Users can also fetch Total Test Case and Total Executed Test Case count by adding quick parts in their word template.

4. Support to Assign Configurations to Test Case on generating test report

Now users can retrieve test case data based on the configuration value filters, enhancing readability. On the Smart Report, a 'Settings' option will be available at the top right in the Report tab. This setting icon will only be shown for the smart parts designed for Test API. The filter dropdown will include three parameters: Configuration name, Configuration values, and Description. All test configurations defined in a project will be displayed in the dropdown. This enables users to view and analyze test results for different configurations, helping them understand how the application performs under various conditions.

5. **Support to add "Attachment" property for Test Run/Results virtual work items**

   Users can now view the **attachments** in the *Test Run* virtual work item added from the Run summary tab under the Runs option by using the "Add attachment" button when generating a Test report from the Smart Report.
   Users can now view the **attachments** in the *Test Results* virtual work item added from the Test results tab under the Runs option by using the "Add attachment" button when generating a Test report from the Smart Report.

6. **Support for generating Smart Report including Test Suite hierarchy in the versions prior to Azure DevOps Server 2020**

   Users can now generate Smart Reports that include sub-test suites in versions of Azure DevOps Server prior to 2020. Previously, the "Include Test Suite Hierarchy" option was not functional in these versions, but support for this feature has now been added in this iteration. Users can generate reports with hierarchical test suites by selecting the option "Generate Report including Suites hierarchy" in the Smart Report window.

7. **Included Template Upload Confirmation Message**

   When users upload a Word template using the 'Choose File' button, a popup message appears at the top-right of the 'Select Word Template' window, indicating "Template uploaded successfully". This message confirms that the template was uploaded correctly.

3. Bugs fixes

1. Fixed an issue where newly added test steps were not displayed in the Smart Report.
2. Fixed an issue where description was not shown in child work item in generated report if root work item wasn't having description clause in XML in given scenario
3. Fixed an issue where 'File already exists' message appears when updating file in following scenario.
4. Fixed an issue where header repetition was not working properly when saving file as MS word.
5. Fixed an issue where fields header was not repeated on every page.
6. Fixed an issue where after adding the caption it wasn't shown on reopening caption window.
7. Fixed an issue where generated report from backlog was not showing all child work items in correct numbering.
8. Fixed an issue where generate button appears disabled and mouse hover shows message *"This feature is only supported on Enterprise plus license"* on Smart Report from extension point.
9. Fixed an issue where error message was showing as *'Name cannot contain the following characters: "/:<>*?|'* instead of *'Title cannot contain the following characters: "/:<>*?|'*
10. Fixed an issue where field labels were displayed next to another field when grouped together when the designer was reopened.
11. Fixed an issue where test case steps were showing extra line space in table cell when saved as a word document.
12. Fixed an issue where text font styling was changing for bullets in the exported document of Smart Report when text was copied from Word and pasted in the Smart editor.

13. Fixed an issue where specific text containing special characters was truncated in test steps run "Action" field when generating test reporting from Smart Report.
14. Fixed an issue where previous test case steps were also updated at Smart Report if test case steps were updated and executed for Test API.

Trace Analysis

1. New Features

1. Support to Save Traceability Matrix directly into Document Management

Users can now save a traceability matrix directly into Document Management. A checkbox 'Save to Library' is provided in 'Export to Excel' popup on Trace Analysis.
Users can select or upload their custom templates, if needed. If the user checks the 'Save to Library' checkbox, the Title textbox and Folder dropdown become visible, allowing users to set a default title or customize it as needed. Users can choose a folder from the folder structure which exists in Document Management.

Note: If a file with the same title already exists in Document Management, a message is displayed when saving the file again. This message informs 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 is displayed. This message informs the user that a *"File with the same name already exists and is currently being checked-out. Please rename or check in the existing file."*

2. Display Test Case Result work item along with Test Cases Linked to the selected Test Plan and Test Suite in Work Item Type and Query from Horizontal Matrix

Users can now display Testcase Results through a virtual work item integrated into the 'Work Item type' and 'Query' dropdown within the Horizontal matrix. The 'Test Case Result' field is virtually connected to the 'Test Case' field, following the sequence Test Case -> Test Case Result. An info message is also visible under test case result dropdown and the results will be shown as default test plan and its suites. You can change the test plan and its suites using the 'Filter' option.' The filter includes dropdowns for Test Plan and Test Suite, allowing users to select and customize their result. Users can select up to 1500 Test Suites. The feature also includes a 'column option' to customize the columns for Testcase Result, displaying relevant fields such as Plan Id, Suite Id, Test Plan, Test Suite, Configuration, and Outcome.

2. Tool Enhancements

1. Support to auto-select the Test Suites up to the limit configured in web config by using test reporting in trace analysis

Users can auto-select the sub–Test Suites up to configured limit by selecting the parent test suite. By default, 25 test suites get auto selected as the limit is set in web config but users can adjust it accordingly. If the limit is reached, additional sub–Test Suites won't be selected and shown the error message 'Test Suite limit exceeds'. Unselecting a parent Test Suite deselects its sub–Test Suites.

Note: To generate traceability matrix, selecting at least one Test Suite is mandatory.

2. Fetching Test Results virtual work item directly from Test Points in Test Reporting

Users can now fetch test results directly from test points to generate comprehensive test reports from Test Reporting option under Horizontal matrix. They can add Test Results and Bug work items under Test Points in Trace Analysis, view properties, and export data to Excel. Users can create the following hierarchy to fetch data in the report.

Test plan vs Test suite vs Test point vs Test results vs Bug

3. Support to add more virtual fields under Virtual work items from Test Reporting option

Users can now generate test report with more useful details necessary for test case reports. Virtual fields such as “Config name” and “Last Step Expected Result” fields can be configured under a *Test case* work item. Similarly, virtual fields such as “Steps”, “Last Updated Date”, “Last Step Expected Result”, “Last Step Run Comment” and “Linked Work item Type” can be configured under *Test Point* work item.

4. Support to Assign Configurations to Test Case from Test Reporting option

Now users can retrieve test case data based on the configuration value filters, enhancing readability. The Test Configuration drop down option is available under the Test Reporting tab in the horizontal matrix type. The filter dropdown will include three parameters: Configuration name, Configuration values, and Description. All test configurations defined in a project will be displayed in the dropdown.

5. Support to add “Attachment” in Test Run/Results virtual work items

Users can now view the **Attachments** in the *Test Run* virtual work item added from the Run summary tab under the Runs option by using the “Add attachment” button when generating a Test report from Test reporting option.
Users can now view the **Attachments** in the *Test Results* virtual work item added from the Test results tab under the Runs option by using the “Add attachment” button when generating a Test report from Test reporting option.

6. Performance optimization in Trace related to Update ID

Users will now experience faster loading times when running test report files. Additionally, the test plan retrieval process has been optimized for improved performance.

3. Bug fixes

1. Fixed an issue where duplicate scrollbar appears at horizontal matrix when select full screen mode.
2. Fixed an issue where some linked work items were not appearing in Smart Report from trace analysis if it generates using version package file.
3. Fixed an issue where the vertical and horizontal scrollbars were disappearing in the Horizontal matrix / Intersection matrix or in Editor tab when resizing the window.
4. Fixed an issue where link count of row work item was not getting updated at traceability grid.
5. Fixed an issue where ‘Unable to export file’ error was occurring when we export to excel with specific template.
6. Fixed an issue where test configuration dropdown appears disabled at intersection matrix.

7. Fixed an issue where work items were not showing at grid due to case sensitive issue when Horizontal matrix gets generated over the custom work items.
8. Fixed an issue where specific Text containing special characters was truncated in test steps run “Action” field when generating test reporting from horizontal matrix.
9. Fixed an issue where previous test case steps were also updated if test case steps were updated and executed in Test report.

Baseline

1. Change Request

1. Showing 'Rev/Ver ID' info based on the details exist in a baseline

Older baselines created using the 'work item revision' approach, which contain work item details based solely on revisions, will be opened along with the respective revision details. This means that in the baseline grid, Smart View, and Difference reports, the details will be shown with respect to the corresponding revision number, instead of Ver.ID/Version ID (Update ID). For new baselines that consist of Version ID (Update ID), the 'Ver ID' column will be shown in the baseline grid, Smart View, and Difference reports.

2. Bug fixes

1. Fixed an issue where the steps table of the test case work item did not show properly on Smart View & difference report
2. Fixed an issue where an incorrect version id was showing on the Smart View window on opening the Smart View from baseline.
3. Fixed an issue where the *"Baseline is either renamed or does not exist on server"* message was shown when comparing two baselines.
4. Fixed an issue where the project was not loading implicitly in the team project drop-down when reusing work items from extension points.

Diagram

1. Tool Enhancement

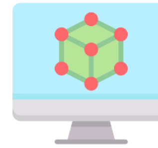
1. Confirmation for Breaking Links on Deleted Work Items

Now users can see a confirmation pop-up in Analysis tab under the Diagram module, when publishing after deleting a work item from Azure DevOps. Upon clicking the Publish button, a message will prompt: *"The respective linked work item no longer exists in ADO. To proceed with your changes you will first need to break the linking with a work item. Do you like to break the link and continue?"* Users can select '**Yes'** to break the link and proceed with creating a new work item, or '**No'** to cancel the action. For the existing work items that are being published, the pop-up will function as it currently does, with the same behavior as before.

2. Bug fixes

1. Fixed an issue where users were unable to select Diagram objects in read-only mode after changing their background color.
2. Fixed an issue where two different notifications were showing in Diagram and Smart Docs when logged in from another user in checked out file.
3. Fixed an issue where users were unable to publish scenarios, test cases and use cases when drill down is added on any shape.
4. Fixed an issue where Diagram with drill down was not opening after clicking on edit in Smart Docs.
5. Fixed an issue where text justification buttons were not working on text.
6. Fixed an issue where Link overlay icon was not disabled if there isn't any link attached to shape.
7. Fixed an issue where users were unable to delete the Obsoleted path, the cross button 'X' was showing disabled.
8. Fixed an issue where page property popup placement disturbs when expand/collapse.
9. Fixed an issue where undo and redo options were not working in Diagram work item(s) present in Smart Doc.

Simulation



1. Bug fixes

1. Fixed an issue where continuous loading was occurring when new mockup of any template is made from navigation.
2. Fixed an issue where one was unable to move Carousel Add window.
3. Fixed an issue where Feedback request was hidden when activated as Stakeholder license.
4. Fixed an issue where continuous loading occurs after clicking on refresh icon in feedback request tab.
5. Fixed an issue where new mockup made from navigation option of control is a replica of previous file.
6. Fixed an issue where images and icons were not displayed in ADO window after performed check in changes.

Use Case

1. Bug fixes

1. Fixed an issue where the Link to icon was not showing in the smart tag pop-up.
2. Fixed an issue where hyper link does not update in the preview diagram.
3. Fixed an issue where cursor repositions itself after pressing enter to add new step.
4. Fixed an issue where revert option was not working on Color configuration in diagram tab in use case module.

Impact Assessment

1. Tool Enhancements

1. Security Enhancement.

Several updates and enhancements were made to further improve and secure this feature

2. Bug fixes

1. Fixed an issue where the user is unable to download the Impact file in PDF.
2. Fixed an issue where Image inserted via link in summary does not show in PDF.
3. Fixed an issue where Work item title under Related Task(s) was displaying as HTML when generating Impact Assessment report in Excel format
4. Fixed an issue where impact and comment not showing in document view and all reports in given scenario
5. Fixed an issue where file is not saving in selected format when file contains dot between the title.

Smart Note

1. Bug fixes

1. Fixed an issue where images not showing in ADO window description after checking in changes, and was not showing in Smart Report too

Document Management

1. New Features

1. Tooltip on lock icon is added

Now, tooltip on lock icon will be shown i.e. checked out by <user>.

2. Security feature for shared documents is added

Now, each document in the shared documents section will have a separate security, and users can edit it.

3. Inline editing for Word file is supported

Now, users can edit the Word file within the document management.

4. Check Out and Enable Editing bar is added

Now, while opening the word file, a yellow bar of Check Out and Enable editing will be shown.

5. Support for Project and Repository information is added

Users can select the repository in which the users want to upload the file. Similarly, users can select specific branches of the repo.

6. User Audit Trail support is added.

Now users (Admin) can download the user audit trail.

7. Information of file, version history, and updated by whom along with date/time stamp is added.

Now file name, version name and created by whom (user) will be shown when user opens the word file along with date/time stamp.

8. Save and check in with label options are provided.

Now, users can save or check in the files with label

9. Message of product is not activated if no license is activated of MR.

Users will see the message of "Your product is not activated. Click here to continue as a stakeholder" on Document Management.

2. Tool Enhancements

1. Behavior of opening versions from version management window is updated.

Users can now only view, compare and download the previous version. Details of version(s) will be shown when user opens any version.

2. Virtual Directory support is added.

Users having virtual directory/folder added in their ADO URL, would be able to use it.

3. MR Stakeholder will now be able to view the Document management

Users with stakeholder license will now be able to view the document management

4. Update in the ADO team's dropdown

ADO Team's dropdown menu now matches the design and functionality of the dropdowns found in our other MR modules.

3. Bug fixes

1. Fixed an issue where text was not appropriate on check in window.
2. Fixed an issue where .txt files were not properly formatted on view.
3. Fixed an issue when 'file uploaded successfully' message was appearing on upload of 20MB+ file.