SAP®

CPQ

2305 What's New

2305.0.1 Hotfix

2305.0.2 Hotfix

2305.0.3 Hotfix

2305.0.4 Hotfix

2305.0.5 Hotfix

2305.0.6 Hotfix

Publish Date: April 24, 2023

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Disclaimer

This document is published and updated before the SAP CPQ releases are deployed, so it is subject to change. To ensure that you have the latest copy of this document, please check the Help for the most up-to-date version.

SAP CPQ 2305 What's New   *Version 10*

Revision History

Version	Date	Summary of Changes
1	April 24, 2023	The SAP CPQ 2305 What's New is published.
2	April 25, 2023	Corrections were made to several entries in the document.
3	May 8, 2023	The document was updated with an additional note: • Tabs Separated by Type
4	May 10, 2023	The document is updated with resolved support issues pertaining to the 2305.0.1 hotfix: • Administrators and users of Quote 2.0 can now successfully access the **Report Module** in the **Setup** and on the user side of the application. • Issues which occurred following the custom table bulk update improvement have been resolved. • The number of characters in the attribute value **Description** field on synchronized products is no longer limited and, consequently, issues no longer occur during knowledge base synchronization. • The endpoint `api/token` for the OAuth2.0 SAML Bearer Assertion grant type no longer requires the X509 Certificate to be included in the signature. • The federation-related issue linked to the error code 200021 can now be resolved by reuploading the Identity Provider XML metadata file on the Federation Settings page in the Setup.
5	May 11, 2023	The document is updated with resolved support issues pertaining to the 2305.0.2 hotfix: • The product search in the catalog now works correctly and doesn't show an internal server error anymore. • The document generation shows again the **Download Document** box centered on screen.

Version	Date	Summary of Changes

6	May 17, 2023	The document is updated with the following:
		
		• The news piece **Razor Syntax Forbidden in Custom User Interface Templates** has been removed and replaced with **Razor Validation for Responsive Templates.**
		• Announcement of new breaking change for the 2311 release: **Custom CPQ Razor Code Invalid in Responsive Templates as of 2311 Release**.
		• Added resolved support issues related to the 2305.0.3 hotfix:
		    ○ A federation module error when a SAML authentication response and assertion are signed and the assertion is encrypted, is now fixed. When all 3 options are enabled and additionally the SAP CPQ option **Require Signed Assertion** is enabled, no more errors occur.
		    ○ An issue with cashing the first version of the scripts was resolved. In case of an update, the newer script version will now be used.
		    ○ The issue where the configuration type for simple SAP Billing and Revenue Innovation Management products (which are converted to being configurable in SAP CPQ during the Knowledge Base sync process) was set to Variant instead of the intended Standard was fixed.
		    ○ An issue with the execution of custom actions which were set as **post action** on **Quote Expiration** was fixed. This is true for Quote 1.0 and Quote 2.0.
		    ○ An issue related to the update of the secret application parameters being moved from the **params table** to the **secret storage** was fixed. The secret key ISecretStorageService is used in the NetSuite integration. Previously, values were stored inside private class fields and after changes they were read and decrypted on demand. After the first request, when users want to reopen the opportunity, they get the exact same object from the session,

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Version	Date	Summary of Changes
		but the secret storage service dependencies are descoped this time. Instances of the ISecretStorageService will now not be descoped anymore after the first request, preventing a fatal error in the landing scenario.
7	May 20, 2023	There were no documentation updates for the 2305.0.4 hotfix.
8	June 3, 2023	The document is updated with resolved support issues related to the 2305.0.5 hotfix: • An issue with the columns **Description and Exception** of the **Event Log** page was fixed. When using any other language than English, not all values were displayed. Now, the content of **Description and Exception** is available for all supported languages again. • An issue with missing images for item actions in the classic design of **Quote 1.0** was resolved. The icons are now available for all users again. • When adding items to the quote using the **Quote API**, the effective date of the product version wasn't taken into consideration. This issue was fixed and SAP CPQ now takes the correct effective date again.
9	June 14, 2023	The document is updated with the following information: • New APIs on the SAP Business Accelerator Hub
10	July 17, 2023	The document is updated with the following information: • An issue with URLs in temporary password reset e-mails was fixed. • In the integration of SAP CPQ and SAP Variant Configuration and Pricing, an issue with the change detection of the quote item custom fields of type **Attribute** was fixed.

Release Dates

All Lower Environments (Development, Sandbox and Test):

- **Saturday**, **May 6, 2023**
- **Wednesday, May 10, 2023**
- **Saturday**, **May 13, 2023**
- **Thursday, May 18, 2023**
- **Saturday, May 20, 2023**
- **Saturday, June 3, 2023**
- **Saturday, July 22, 2023**

Production:

- **Saturday, May 20, 2023**

Release Schedule and Dates for 2023

Power Hour

Subscribe to the Power Hour webinar to join the SAP CPQ Product Management team as they present the features and functionalities coming to production in 2305, and use the opportunity to discuss any of your SAP CPQ-related questions.

What's New in SAP CPQ 2305?

We are pleased to announce the release of SAP CPQ 2305. This release brings new features and enhancements to the existing functionalities in SAP CPQ:

- The DocuSign integration for the Quote 2.0 engine has been improved.
- Document pricing now supports the combination of quote items from both SAP CPQ and SAP Variant Configuration and Pricing to calculate prices for quote items.

- Administrators can now use the formula <CTX(Quote.CurrentItem)> to define pricing attribute values for quote line items in **General Attribute Mappings**. This allows administrators to send a quote item custom field within the SAP Variant Configuration and Pricing integration.

- All pricing conditions (even those that are not mapped) are now exposed to be used in scripts and calculations to populate custom fields of quote line items.

- Administrators can now use variant pricing even for standard SAP CPQ products that were not obtained through knowledge base synchronization.

- If there was a change in the configuration of a Variant Configuration product between two knowledge base synchronizations, the update will be done automatically on triggering the **Reconfigure** action so the actual product will be upgraded to the newest knowledge base.

- Simple products from SAP Billing and Revenue Innovation Management can now simultaneously be used in a product configuration and added to the quote as root items.

- Administrators can now import or export business partners in bulk on the new **Bulk Business Partner Import/Export** page, located in the **Import/Export** section of the **Setup**.

- Users now have the option of translating quotes or document generation templates into specific languages by selecting a dictionary during the document generation process.

- The quote fields **Date Created**, **Date Modified**, the quote item field **Date when item is added**, the **Date Created** field in generated documents and quote attachments, as well as the **Date Created** on collaboration comments, are now stored in the Coordinated Universal Time (UTC) for usage in IronPython scripting.

- Administrators can now see an overview of logged warnings on the **Setup Home** page.

- Quote 2.0 users can now filter quotes on the **Load Existing Projects/Quotation** page by specifying multiple statuses in the filter.

- Custom Razor code is no longer allowed in the listed default SAP CPQ templates.

- Administrators can now copy the content of a cell in the **Description** column in the **Log** by clicking on it. In addition, it is now possible to resize the columns of the **Log** grid.

- A new module for the federated single sign-on is now available to administrators. The **Setup** page for setting up the federation settings has been improved and the process of adding a new Identity Provider is now simpler and more accurate.

- The visual appearance of pages available to administrators throughout the SAP CPQ **Setup** has been improved in accordance with the SAP Fiori standards.

- The **File Management** section in the **Setup** has been rewritten to Angular technology and redesigned to make it more user friendly and adjusted to the SAP CPQ overall design.

- The **Statuses** and **Actions** pages of the **Workflow** section of the **Setup** have been rewritten to Angular technology and redesigned to make it more user-friendly and adjusted to the SAP CPQ overall design.

- Accessibility has been improved on the user side of SAP CPQ by introducing the minimum contrast.

- Administrators can use the application parameter **Number of autocomplete results for attribute** to control the number of suggested results that appear when users enter a value in an autocomplete attribute custom field.

- Administrators could previously access any type of tabs via **Setup** > **General** > **Tabs**. As of 2305, tabs have been separated by type.

- The Quotes API has been expanded with a new endpoint for getting a list of quotes.

- The scripting method `ISqlHelper.Upsert` has been optimized for handling large datasets.

- You will need to access the **Script Performance** page in the Setup, and review and optimize all scripts displayed in red so that they aren't exceeding the limit. These scripts will be cancelled in the 2305 release if they are not previously optimized.

- An updated version of the announcement regarding forbidden CLR module import is available in the document.

- Starting with the 2305 release, the tag `<<ST_USERFILE_IMG()>>` will only accept files with image extensions that are specified for the application parameter **Allowed Image**

Extensions. The tag `<<ST_USERFILE()>>` will continue to allow uploading any kind of file.

- Issues have been resolved throughout different SAP CPQ workspaces.

2305 New Feature Overview

New Feature	Workspace(s)	Impacts End Users	Impacts Administrators	Requires Administrator Action*
DocuSign Integration Improvements for Quote 2.0	**Integrations**	✔	✔	
Combined Quote Items for Document Pricing	**Integrations**	✔		
New Attribute Formula For Mapping Quote Line Items	**Integrations**		✔	
Pricing Conditions for Scripting and Quotes	**Integrations**		✔	
Variant Pricing for Standard Products	**Integrations**		✔	

New Feature	Workspace(s)	Impacts End Users	Impacts Administrators	Requires Administrator Action*
Exposure of Hardcoded Parameters for Pricing Attributes	**Integrations**		✔	✔
Update a Product to the New Knowledge Base (Only for Quote 2.0)	**Integrations**	✔	✔	
Add Product from SAP Billing and Revenue Innovation Management as Root item	**Integrations**	✔		
Business Partner Bulk Import/Export	**Quote 2.0**		✔	
Multiple Languages Supported for Document Generation in Quote 2.0	**Quote 2.0**	✔		✔
UTC Date and Time in Quote 2.0 Fields	**Quote 2.0**		✔	✔

New Feature	Workspace(s)	Impacts End Users	Impacts Administrators	Requires Administrator Action*
Overview of Warnings on Setup Home Page	**Quote 2.0**		✔	
Filtering Quotes by Multiple Statuses	**Quote 2.0**	✔		
Razor Syntax Forbidden in Custom User Interface Templates	**Quote 2.0**		✔	✔
Log Improvements	**General**		✔	
Improved Federation Protocol	**General**		✔	
Setup Pages Restyled	**General**		✔	

New Feature	Workspace(s)	Impacts End Users	Impacts Administrators	Requires Administrator Action*
File Management Page Rewritten and Redesigned	**General**		✔	
Statuses and Actions Pages Rewritten and Redesigned	**General**		✔	
Accessibility – Minimum Contrast	**General**	✔		
Autocomplete Attribute Custom Field Improvement – Extend Default Number of Visible Rows	**General**	✔		✔
Long Description for Attribute Values	**General**		✔	
Tabs Separated by Type	**General**		✔	

New Feature	Workspace(s)	Impacts End Users	Impacts Administrators	Requires Administrator Action*
Quotes API – Endpoint for Getting a List of Quotes	**API**		✔	
New APIs on the SAP Business Accelerator Hub	**API**		✔	
ISqlHelper.Upsert Optimization	**Scripting**		✔	
Scripts Exceeding Maximum Execution Time Cancelled in 2305 Release	**Breaking Changes**		✔	✔
Update: CLR Module Import No Longer Supported as of 2311 Release	**Breaking Changes**		✔	✔
<<ST_USERFILE_IMG()>> Document Generation Tag Behavior Changed in 2305	**Breaking Changes**	✔	✔	✔

* Action implies that this feature is not automatically available/present in the SAP CPQ user interface. These features must be enabled or configured prior to use.

2305 Browser Support

SAP CPQ 2305 is supported on the following browsers:

- The latest version of Mozilla Firefox ®
- The latest version of Google Chrome ®
- The latest version of Microsoft Edge ®
- The latest version of Safari

For SAP CPQ to function properly, enable cookies and Javascript for all browsers.

Integrations

New Features and Improvements

DocuSign Integration Improvements for Quote 2.0

The DocuSign integration for the Quote 2.0 engine has been improved in the following ways:

- Administrators are now able to configure the workflow and define behavior related to the document signing process (in regard to actions, workflow, and so on). In addition, the default quote statuses used with the DocuSign integration (**Waiting for E-Signing, E-Sign Accepted, E-Sign Declined**) now automatically become available in SAP CPQ once the integration is enabled. No statuses are created if statuses with the same name already exist in the system.

- Administrators can now manually define the list of countersigners which is used by the end users in the signing process. It is possible to select predefined users as countersigners, as well as to create countersigners by manually providing the information.

- Additional document generation tags are now available to users of the DocuSign integration: `\signer_X_initials\` (used to mark the position in the document where the specified signer's initials are placed), `\signer_X_datesigned\` (used to mark the position in the document where the signing date by the specified signer is placed), `\signer_X_checkbox_Y_mandatory\` (used to mark the position of a mandatory checkbox), `\signer_X_checkbox_Y_optional\` (used to mark the position of an optional checkbox), `\signer_X_mandatory_radiogroup_Y_button_Z\` (used to mark the position of a mandatory radio button group), `\signer_X_optional_radiogroup_Y_button_Z\` used to mark the position of an optional radio button group).

Combined Quote Items for Document Pricing

Document pricing now supports the combination of quote items from both SAP CPQ and SAP Variant Configuration and Pricing to calculate prices for quote items. SAP CPQ calculations can now be triggered on top of Variant Configuration calculations when the quote contains both item types.

New Attribute Formula For Mapping Quote Line Items

Administrators can now use the formula `<CTX( Quote.CurrentItem )>` to define pricing attribute values for quote line items in **General Attribute Mappings**. This allows administrators to send a quote item custom field within the SAP Variant Configuration and Pricing integration. This improvement is introduced to Quote 2.0 only for the event of adding an item to the quote.

Pricing Conditions for Scripting and Quotes

All pricing conditions (even those that are not mapped) are now exposed to be used in scripts and calculations to populate custom fields of quote line items. This improvement is introduced for Quote 2.0 in the scenario where pricing condition mapping is enabled, and pricing data is sent from SAP Variant Configuration and Pricing to SAP CPQ.

Variant Pricing for Standard Products

Administrators can now use variant condition pricing even for the SAP CPQ products that were not synchronized through knowledge base synchronization.

To set this up in the **Products** view, select the following:

- Display Type: **Parent/Child**
- Configuration Type: **Standard**

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- Pricing Type: **Variant Pricing**

Exposure of Hardcoded Parameters for Pricing Attributes

Administrators can now set up:

- The pricing date field on item level (KOMK-PRSDT: date for pricing and exchange rate & KOMK-FBUDA: date when services rendered).
- KOMK-SPART (Division header field), KOMP-SPART (Division item field), KOMK-LAND1 (Destination country) parameters for clients to define using formula division parameters on header and item levels.
- Custom values/sources for a sales organization to be used for the pricing procedure determination so you don't have to rely on markets which are currently tightly coupled with currencies.

Update a Product to the New Knowledge Base (Only for Quote 2.0)

If there was a change in the configuration of a Variant Configuration product between two knowledge base synchronizations, the update will be done automatically on triggering the **Reconfigure** action so the actual product will be upgraded to the newest knowledge base. This is only valid for Quote 2.0. The product can also be manually upgraded to the new product version if there is a new version available for the provided effective date.

Add Product from SAP Billing and Revenue Innovation Management as Root item

Simple products from SAP Billing and Revenue Innovation Management can now simultaneously be used in a product configuration and added to the quote as root items.

Resolved Support Issues

1. The number of characters in the attribute value **Description** field on synchronized products is no longer limited and, consequently, issues no longer occur during knowledge base synchronization.

2. The issue where the configuration type for simple SAP Billing and Revenue Innovation Management products (which are converted to being configurable in SAP CPQ during the Knowledge Base sync process) was set to **Variant** instead of the intended **Standard** was fixed.

3. An issue related to the update of the secret application parameters being moved from the **params table** to the **secret storage** was fixed. The secret key ISecretStorageService is used in the NetSuite integration. Previously, values were stored inside private class fields and after changes they were read and decrypted on demand. After the first request, when users want to reopen the opportunity, they get the exact same object from the session, but the secret storage service dependencies are descoped this time. Instances of the ISecretStorageService will now not be descoped anymore after the first request, preventing a fatal error in the landing scenario.

4. In the integration of SAP CPQ and SAP Variant Configuration and Pricing, an issue with the change detection of the quote item custom fields of type **Attribute** was fixed.

Quote 2.0

New Features and Improvements

Business Partner Bulk Import/Export

Administrators can now import or export business partners in bulk on the new **Bulk Business Partner Import/Export** page, located in the **Import/Export** section of the **Setup**. It is possible to export a template which can be populated with new or updated business partners and subsequently imported into SAP CPQ. Additionally, administrators can now export all business partners at once, as well as specify whether the ID or the system ID of imported business partners should be used to determine if new business partners should be created or if existing ones should be updated.

Multiple Languages Supported for Document Generation in Quote 2.0

Users now have the option of translating quotes or document generation templates into specific languages by selecting a dictionary during the document generation process.

UTC Date and Time in Quote 2.0 Fields

The quote fields **Date Created**, **Date Modified**, the quote item field **Date when item is added**, the **Date Created** field in generated documents and quote attachments, as well as the **Date Created** on collaboration comments, are now stored in the Coordinated Universal Time (UTC). Consequently, the date and time for these fields is now in UTC in the context of IronPython scripting. On the user interface, the dates are still displayed in the user's set time zone.

For any existing quotes the conversion is automatically performed. It will remain possible to get the value of these fields in local server time from IronPython scripting, as it was prior to this release. Please contact the SAP CPQ Support team if you wish to enable the old behavior.

Overview of Warnings on Setup Home Page

Administrators can now see an overview of logged warnings on the **Setup Home** page. Warnings are added to the same chart where errors are currently displayed. The chart displays the number of warnings that were logged per day for the previous month.

Filtering Quotes by Multiple Statuses

Quote 2.0 users can now filter quotes on the **Load Existing Projects/Quotation** page by specifying multiple statuses in the filter. The functionality now works the same in both quote engines.

Razor Validation for Responsive Templates

With the release 2305, we are announcing the introduction of Razor code (custom C# code) validation for responsive templates, which will begin in the upcoming releases 2308 and 2311. This will impact how responsive templates are used, as custom CPQ Razor code will become invalid.

Important notice: With the release 2305, no action is required from administrators. All responsive templates will continue to work as expected. You can also keep creating or editing templates as usual. Razor validation will be introduced in the releases 2308 and 2311.

Administrators can expect the following changes:

1. In release 2308:

- You will still be able to save responsive templates that contain invalid custom CPQ Razor code. A warning message will inform you that this won't be possible as of 2311 and provide a link with information about how to already fix the templates.

2. In release 2311:

- You will no longer be able to save existing responsive templates that contain invalid custom CPQ Razor code. The documentation will contain guidance about valid and invalid Razor syntax.
- For example:
    Webcom.Configurator.Core.CRMItemMapping.IsProduct2Mapping() will be invalid. You will need to either remove this code line completely from the responsive template or replace it with an appropriate, valid code line.
- In new responsive templates, you will only be able to use valid Razor code.

3. Restrictions won't apply to standard Razor code such as @Date, @Html, and so on.

4. All existing templates will continue to work as before, but you won't be able to save any new changes that contain invalid Razor code. You will then need to remove or correct the invalid code.

5. Razor code validation won't impact frozen templates.

As of 2308 and 2311, razor code validation will apply to the following templates:

1. CatalogPage
2. Sections/QuoteInfo
3. CartListPage
4. CompareProductsTemplate
5. ResponderForProductView
6. ProductDetailsTemplate
7. MainMenu
8. ModifyPasswordPage
9. UserDetailsPage

10. BreadcrumbsView

11. ConfiguratorView

12. FavoritesPage

13. QuoteListComponent

14. CartSummary

15. Categories

16. RecentlyVisitedObjects

17. UserMenu

Resolved Support Issues

1. An issue with the execution of custom actions which were set as **post action** on **Quote Expiration** was fixed. This is true for Quote 1.0 and Quote 2.0.

2. When adding items to the quote using the **Quote API**, the effective date of the product version wasn't taken into consideration. This issue was fixed and SAP CPQ now takes the correct effective date again

General

New Features and Improvements

Log Improvements

Administrators can now copy the content of a cell in the **Description** column in the **Log** by clicking on it. In addition, it is now possible to resize the columns of the **Log** grid.

Improved Federation Protocol

A new module for the federated single sign-on is now available to administrators. The **Setup** page for setting up the federation settings has been improved and the process of adding a new Identity Provider is now simpler and more accurate. In addition, error handling has been improved, as users experiencing errors are now provided with error codes which link directly to explanations of those specific errors. No action is required from the administrators, as the metadata will be automatically migrated, and the functionality will continue to work as before.

Setup Pages Restyled

The visual appearance of pages available to administrators throughout the SAP CPQ **Setup** has been improved in accordance with the SAP Fiori standards.

File Management Page Rewritten and Redesigned

The **File Management** section in the **Setup** has been rewritten to Angular technology and redesigned to make it more user friendly and adjusted to the SAP CPQ overall design.

Functionally, the pages remain unchanged, and everything that the administrators could perform on the old pages, they can now perform on the new pages.

Statuses and Actions Pages Rewritten and Redesigned

The **Statuses** and **Actions** pages of the **Workflow** section of the **Setup** have been rewritten to Angular technology and redesigned to make it more user-friendly and adjusted to the SAP CPQ overall design.

Functionally, the page remains unchanged and everything administrators could perform on the old page, they can now perform on the new one as well.

Accessibility – Minimum Contrast

Accessibility has been improved on the user side of SAP CPQ by introducing the minimum contrast. When using the available minimum contrast theme, icons and text are displayed with a contrast ratio of at least 4.5:1 between the foreground color and the background color. The following pages and objects are covered:

- **Catalog**
- **Favorites**
- **Guided Selling**
- **Configurator**
- **User Page**
- **Quote** (the tabs **Quotation**, **Additional info** (`QuoteProperties.aspx/empty` implementation file), **Documents**, **Deal View**, **Involved Parties**, **Teams**, and document generation except for the AdobeSign integration-related page)
- **Quote list** (only in Quote 2.0)
- **Approvals**
- **Approval history**

Autocomplete Attribute Custom Field Improvement – Extend Default Number of Visible Rows

When the user starts entering values in a custom field whose type is autocomplete attribute, the number of suggested results which were visible was previously limited to 10. As of 2305, administrators can use the application parameter **Number of autocomplete results for attribute** to control the number of suggested results that appear when users enter a value. The allowed values for the parameter are between 10 and 100.

Long Description for Attribute Values

Administrators can now define a long description for the attribute values of configurable products. This allows administrators to display more information about an attribute value in the **Configurator**.

Tabs Separated by Type

Administrators could previously access any type of tabs via **Setup** > **General** > **Tabs**. As of 2305, tabs have been separated by type. Consequently, product tabs are now available in **Setup** > **Product Catalog** > **Tabs**, whereas custom quote tabs are now available in **Setup** > **Quotes** > **Custom Quote Tabs**.

If there is a multiple **Deal** view implementation in your data, you may see multiple **Quote** tabs. To fix this, go to CPQ Setup > Quotes > Custom Quote Tabs and check if there are multiple tabs that are using the same implementation file "DealView" and delete the unused one.

Resolved Support Issues

1. Administrators and users of Quote 2.0 can now successfully access the **Report Module** in the **Setup** and on the user side of the application.
2. Issues which occurred following the custom table bulk update improvement have been resolved.
3. The federation-related issue linked to the error code 200021 can now be resolved by reuploading the Identity Provider XML metadata file on the **Federation Settings** page in the **Setup**.
4. The document generation shows again the **Download Document** box centered on screen.
5. The product search in the catalog now works correctly and doesn't show an internal server error anymore.

6. A federation module error when a SAML authentication response and assertion are signed and the assertion is encrypted, is now fixed. When all 3 options are enabled and additionally the SAP CPQ option **Require Signed Assertion** is enabled, no more errors occur.

7. An issue with the columns **Description and Exception** of the **Event Log** page was fixed. When using any other language than English, not all values were displayed. Now, the content of **Description and Exception** is available for all supported languages again.

8. An issue with missing images for item actions in the classic design of **Quote 1.0** was resolved. The icons are now available for all users again.

9. An issue with URLs in the temporary password reset e-mails was fixed.

API

New Features and Improvements

Quotes API – Endpoint for Getting a List of Quotes

The Quotes API has been expanded with a new endpoint for getting a list of quotes with multiple filter options (such as **Quode ID, Quote Composite Number, Distribution Channel, Status ID, Market ID, Active Revision**):

- GET `/api/v1/quotes`

New APIs on the SAP Business Accelerator Hub

The following SOX APIs are now available on the SAP Business Accelerator Hub:

- [Action](#)
- [Approval Rules](#)
- [Country](#)
- [Country Tax](#)
- [Currency](#)
- [Margin Health Indicators](#)
- [Market](#)
- [Market Visibility](#)
- [Notifications](#)
- [State](#)
- [State Tax](#)
- [Statuses](#)
- [Territory](#)
- [Quote Layout](#)
- [Workflow](#)

Resolved Support Issues

1. The endpoint `api/token` for the OAuth2.0 SAML Bearer Assertion grant type no longer requires the X509 Certificate to be included in the signature.

Scripting

New Features and Improvements

ISqlHelper.Upsert Optimization

The scripting method `ISqlHelper.Upsert` has been optimized for handling large datasets. Currently, optimized handling is applicable only when auditing is not set on a custom table. This optimization reduces the time for updating custom tables through scripting.

Resolved Support Issues

1. An issue with cashing the first version of the scripts was resolved. In case of an update, the newer script version will now be used.

Breaking Changes

Scripts Exceeding Maximum Execution Time Cancelled in 2305 Release

On the **Script Performance** page, which is accessible from the **Setup** home page, you can review the performance of scripts in your system. The scripts displayed in red on this page are exceeding the execution time limit of 15 min, whereas those approaching the limit are displayed in yellow. The scripts displayed in red will be cancelled after the deployment of the 2305 release.

Actions to Take

Please access the **Script Performance** page in the **Setup**, and review and optimize all scripts displayed in red so that they aren't exceeding the limit. These scripts will be cancelled in the 2305 release if they are not previously optimized.

In addition, we recommend that you also optimize the scripts that are currently displayed in yellow. These scripts will also be regarded as scripts exceeding the execution limit and subsequently cancelled in the 2308 release unless they are optimized prior to that release. The same process will be repeated for the 2311 release, where the allowed execution limit will be additionally shortened.

Update: CLR Module Import No Longer Supported as of 2311 Release

We would like to update our previous announcement regarding the termination of support for importing the CLR module and associated namespaces in SAP CPQ scripting. The previously announced changes will not take effect as of the 2308 release, but instead, they will be implemented with the 2311 release. This means that you will have more time to prepare for the changes and ensure that your scripts are updated accordingly.

It is important to note that the announced changes will only apply to writing new scripts or modifying existing scripts. CLR module import will not be forbidden on any customer environments until the appropriate alternatives have been implemented, and no breaking changes will occur with existing scripts. Furthermore, existing scripts that will not undergo any additional modifications (scripts that are in maintenance mode) will continue to work as usual after these changes are implemented. However, if you intend to further modify your scripts in the future, you will need to update these scripts to use the new classes and methods introduced in the 2302 release to ensure that they are not affected by these changes. Please refer to the before-and-after code examples illustrating how to replace CLR module import, and the complete list of classes and methods introduced in 2302 to be used for this purpose. In addition,

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you can review the exposed SAP CPQ APIs in the **Script Workbench** to look for any additional alternatives you may require.

We value customer feedback and encourage you to provide us with information on how the changes affect your business model and if any additional support is needed to make the transition to the new scripting methods.

Provided below is the text of the original announcement.

As of the 2308 release, you will no longer be able to import the CLR module or use any associated namespaces in SAP CPQ scripting. However, starting with the 2302 release, alternatives to using the CLR module in scripting have become available, which you can use to effectively replace the instances where the CLR module import is currently used. New classes and methods were introduced to SAP CPQ in the 2302 release to be used as alternative solutions. Please refer to the following resources: a list of before-and-after code examples illustrating how to replace CLR module import, and a complete list of classes and methods you can use to this purpose.

If you have any feedback regarding this change, please communicate your feedback to the SAP CPQ Team.

<<ST_USERFILE_IMG()>> Document Generation Tag Behavior Changed in 2305

Currently, the document generation tags `<<ST_USERFILE()>>` and `<<ST_USERFILE_IMG()>>` allow you to upload any kind of file. However, starting with the 2305 release, the tag `<<ST_USERFILE_IMG()>>` will only accept files with image extensions that are specified for the application parameter **Allowed Image Extensions** in **Setup** > **General** > **Application Parameters** > **General Parameters**. On the other hand, the tag `<<ST_USERFILE()>>` will continue to allow uploading any kind of file.

Once the 2305 release is deployed, for all previously created templates, `<<ST_USERFILE()>>` and `<<ST_USERFILE_IMG()>>` tags will accept any file extension, the same way it currently works. However, the new behavior will be effective for any newly created templates. In addition,

the new behavior will also take effect on previously created templates if their version is changed (another version is reactivated or a new version is created).

Actions to Take

Please adjust your templates accordingly before the deployment of the 2305 release, making sure that the `<<ST_USERFILE_IMG()>>` document generation tag is used for uploading files with the allowed image extensions that are specified in the **Setup**, and the `<<ST_USERFILE()>>` tag is used for any file types.

Custom CPQ Razor Code Invalid in Responsive Templates as of 2311 Release

As of the 2311 release, Razor code (custom C# code) will be validated in responsive templates. New templates won't allow invalid code, and changes to existing templates that contain invalid code won't be allowed. For more information, see **Razor Validation for Responsive Templates**.

The main motivation for this change is that razor validation will make responsive templates and therefore SAP CPQ more stable and secure. Before the razor validation, administrators could access and use custom C# code, which is part of the CPQ core code and should actually be only used by the internal engineering team.

Regarding stability, razor validation will improve it for SAP CPQ environments. In responsive templates, administrators can edit razor code, but without validation these code changes could unknowingly lead to breaking changes in the administrator's environment. Regarding security, issues derived from using custom code can no longer occur with razor validation nor impact the administrator's environments.

Actions to Take

Please start adjusting your templates already as of the 2308 release:

    a) Remove or replace code lines that contain custom CPQ Razor code.

    b) If you create new templates, avoid using custom CPQ Razor code.

With the 2308 release, we will provide more information about how to fix invalid code.

Useful Links and Resources

We have collected pages and materials that will help administrators and users learn how to use SAP CPQ.

Documentation

- [Help documentation portal](#)
- [SAP CPQ blog](#)
- [Ask a question](#)

Training

- [Getting started with SAP CPQ](#)
- [Becoming Competent in SAP CPQ](#)
- [Advancing in SAP CPQ](#)

For a complete list of all training materials, see [Start with an overview](#).

Stay up to Date

Every time a new version of SAP CPQ is released, the help portal documentation is updated and a What's New document is published with the update announcements. Additionally, if there

are any changes that require customer attention and action before the release, an announcement with details is sent out prior to the release.

To stay up to date with all the updates, check the following links:

- [What's New of Previous SAP CPQ Releases](#)
- [Announcements and Breaking Changes of Previous SAP CPQ Releases](#)
- [Release Schedule and Dates for 2022](#)
- [Subscription Instructions](#)