



CPQ

2308 What's New

2308.0.1 Hotfix

2308.0.2 Hotfix

2308.0.3 Hotfix

2308.0.4 Hotfix

2308.0.5 Hotfix

2308.0.6 Hotfix

Publish Date: July 24, 2023

Table of Contents

Disclaimer	4
Revision History	5
Release Dates	6
Power Hour	7
What's New in SAP CPQ 2308?	8
2308 New Feature Overview	10
2308 Browser Support.....	15
Integrations	16
New Features and Improvements.....	16
BRIM Integration - Subscription Contract Renewal Process Capabilities.....	16
Deprecation of Old Salesforce Integration.....	17
Enable Setup of Exchange Rate Type Parameter.....	17
Support for Single-Level Configurable Products.....	17
Enable Certificate Based Authentication between SAP CPQ and Solution Order Management.....	18
Resolved Support Issues.....	18
General.....	18
New Features and Improvements.....	18
New SAP CPQ tenant URL.....	18
Data Center Transition to Microsoft Azure.....	19
Single Sign-On Login Enhancement	19
Resetting a Product Configuration	19

Resizing to 200 Percent	19
New Alternatives to CLR Module Import Added	20
Resolved Support Issues.....	20
Quote 2.0	20
New Features and Improvements.....	20
Advanced Conditions for Quote Visibility.....	20
Migration Notes for Existing Rules on Quote 2.0 Tenants: Permission Groups.....	21
Character Length Limit for Quote Fields.....	22
New Actions for Multiple Items: Select, Copy, and Delete	23
Drag & Drop Items	23
Favorite Handling Enhancement.....	25
SAML Bearer Token Authentication and Authorization.....	25
Dynamic Condition Mapping Based on Line Item Values	25
Removal of Manually Priced Conditions.....	25
Razor Validation for Responsive Templates.....	26
Resolved Support Issues.....	26
Quote 1.0	28
New Features and Improvements.....	28
Character Length Limit for Quote Fields.....	28
Resolved Support Issues.....	29
API.....	30
New Features and Improvements.....	30
New APIs on the SAP Business Accelerator Hub.....	30

Scripting.....	30
New Features and Improvements.....	30
New Global Script Event: On Changing Standard Quote Fields	30
Revisions and Approvals Through Scripting.....	31
Random Number Through Scripting.....	31
Resolved Support Issues.....	31
Breaking Changes	31
Useful Links and Resources.....	32
Documentation	32
Training	32
Stay up to Date.....	32

Disclaimer

This document is published and updated before the SAP CPQ releases are deployed, so it is subject to change. You may also find links and references to content that is not yet available. You will be able to access this content once the new SAP CPQ version is released.

To ensure that you have the latest copy of this document, please check the [Help](#) for the most up-to-date version.

Revision History

Version	Date	Summary of Changes
1	July 24, 2023	The SAP CPQ 2308 What's New is published.
2	August 3, 2023	Removed two features from the Quote 1.0 section as they apply to Quote 2.0 only: <ul style="list-style-type: none"> • Dynamic Condition Mapping Based on Line Item Values • Removal of Manually Priced Conditions
3	August 8, 2023	The document is updated with resolved support issues related to the 2308.0.1 hotfix: <ul style="list-style-type: none"> • Fixed an issue where a quote coming from SAP Cloud for Customer could not be created when a custom field had no value. • Fixed an error that occurred when trying to set a free form custom field to "None" through scripting.
4	August 11, 2023	The document is updated with resolved support issues related to the 2308.0.2 hotfix: <ul style="list-style-type: none"> • Fixed an issue where an end user could not view quotes in the Other Quotes tab. Now the quote visibility works when the administrator sets visibility conditions. • Fixed an issue where script execution for an attribute trigger in a child product failed.
5	August 16, 2023	The document is updated with resolved support issues: <ul style="list-style-type: none"> • Fixed an issue where the application parameter Allowed Content File Extensions was case sensitive. Now administrators can enter file extensions in either upper case or lower case (for example, both "PDF" and "pdf" work). • The item calculations for rolled-up net and list prices are now updated when the user changes the values entered for quantity fields.

		There were no documentation updates for the 2308.0.3 hotfix.
6	August 17, 2023	The document is updated with resolved support issues related to the 2308.0.4 hotfix: <ul style="list-style-type: none"> Fixed scripting method in the <code>AuthorizedRestClient</code> interface for getting an access token.
7	September 2, 2023	The document is updated with resolved support issues related to the 2308.0.5 hotfix: <ul style="list-style-type: none"> Fixed an issue where duplicated entries appeared on the Quote list. Now only one line (quote) on the quote list can be viewed.
8	September 23, 2023	The document is updated with resolved support issues related to the 2308.0.6 hotfix: <ul style="list-style-type: none"> Fixed the performance issue when the values are assigned to the text quote item custom field through scripting.

Release Dates

All Lower Environments (Development, Sandbox and Test):

- **Saturday, August 5, 2023**
- **Wednesday, August 9, 2023 (hotfix 2308.0.1)**
- **Saturday, August 12, 2023 (hotfix 2308.0.2)**
- **Thursday, August 17, 2023 (hotfix 2308.0.3)**
- **Friday, August 18, 2023 (hotfix 2308.0.4)**
- **Saturday, September 2, 2023 (hotfix 2308.0.5)**
- **Saturday, September 23, 2023 (hotfix 2308.0.6)**

Production:

- **Saturday, August 19, 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 2308, and use the opportunity to discuss any of your SAP CPQ-related questions.

What's New in SAP CPQ 2308?

We are pleased to announce the release of SAP CPQ 2308. This release brings new features and enhancements to the existing functionalities in SAP CPQ:

- **▲** The adoption period of the new SAP CPQ tenant URL ends with the 2308 production release.
- In the next 2 to 6 months, most of the SAP CPQ cloud services will transition to the Microsoft Azure infrastructure.
- In the BRIM Integration, users can now renew or modify the existing subscription contract while creating the quote.
- The integration of SAP CPQ with SAP S/4HANA Cloud Sales Order was enhanced to support not only simple products but also single-level configurable products.
- As previously announced, the Salesforce REST APIs version 21 to 30 are being retired. This means that the integration of SAP CPQ using these Salesforce APIs is now also retired with the SAP CPQ release 2308. The integration has moved to a partner-based integration.
- Certificate REST authentication enabled in SAP Cloud Integration for the integration between SAP CPQ and SAP S/4HANA Cloud Solution Order.
- Administrators can now setup exchange rate type parameter for general attribute mappings on Quote 2.0.
- New button on the login screen to use single sign-on to an Identity Provider with one click.
- Reset a product configuration to discard the settings made so far and start again.
- Text resizing on the user interface is now possible to up to 200%.
- Administrators can now easily configure advanced conditions for quote visibility rules without technical knowledge of SQL and CPQ database queries like before.

- Administrators can now restrict the number of characters that their users can input for the following quote fields: free forms in quote custom fields, texts in quote items custom fields, and quote cart comments.
- On Quote 2.0, users can now multiselect items, which also enables new actions for multiple items, deleting and copying. In addition, drag & drop has been introduced to intuitively rearrange the order of quote items.
- The favorites in the product catalog can now be organized in folders and subfolders.
- Administrators can now generate SAML 2.0 Bearer Authentication Profiles for Quote 2.0 from scripting.
- Users can now define two different conditions that are mapped to the same column. Administrators enable this functionality with the new parameter Use formula for Condition determination.
- When an item condition in SAP CPQ is changed, users can now remove any manually set priced condition for SAP Variant Configuration and Pricing products.
- Razor code is now validated in custom responsive templates.
- New APIs on the SAP Business Accelerator Hub: Product Tabs, Quote Tabs, and Quote Tab Permission.
- On Quote 2.0, you can now attach global scripts to the new event On changing standard quote fields. This event can be executed for changes on the standard fields Market, Pricebook, and Effective Date.
- In addition to the user interface, you can now also manage quote revisions and the approval process through scripting.
- You can now generate a random number through scripting with the class *Random*.
- New alternatives to the CLR Module Import have been added.
- Issues have been resolved throughout different SAP CPQ workspaces.


2308 New Feature Overview

New Feature	Workspaces	Impacts End Users	Impacts Administrators	Requires Administrator Action*
▲ SAP CPQ New Tenant URL Adoption Period Ends	General	✓	✓	✓
BRIM Integration - Subscription Contract Renewal Process Capabilities	Integrations	✓	✓	
Deprecation of Old Salesforce Integration	Integrations		✓	
Enable Setup of Exchange Rate Type Parameter	Integrations	✓	✓	✓
Support for Single-Level Configurable Products	Integrations	✓	✓	

New Feature	Workspaces	Impacts End Users	Impacts Administrators	Requires Administrator Action*
Enable Certificate Based Authentication between SAP CPQ and Solution Order Management	Integrations		✓	
Data Center Transition to Microsoft Azure	General		✓	✓
Single Sign-On Login Enhancement	General	✓		
Resetting a Product Configuration	General	✓		
Resizing to 200 Percent	General	✓		
New Alternatives to CLR Module Import added	General		✓	✓

New Feature	Workspaces	Impacts End Users	Impacts Administrators	Requires Administrator Action*
Advanced Conditions for Quote Visibility	Quote 2.0	✓	✓	
Character Length Limit for Quote Fields	Quote 2.0 Quote 1.0	✓	✓	
New Actions for Multiple Items: Select, Copy, and Delete	Quote 2.0	✓		
Drag & Drop Items	Quote 2.0	✓		
Favorite Handling Enhancement	Quote 2.0	✓		
SAML Bearer Token Authentication and Authorization	Quote 2.0	✓	✓	✓

New Feature	Workspaces	Impacts End Users	Impacts Administrators	Requires Administrator Action*
Dynamic Condition Mapping Based on Line Item Values	Quote 2.0	✓		
Removal of Manually Priced Conditions	Quote 2.0		✓	
Razor Validation for Responsive Templates	Quote 2.0		✓	
New APIs on the SAP Business Accelerator Hub	API		✓	
New Global Script Event: On Changing Standard Quote Fields	Scripting		✓	
Revisions and Approvals Through Scripting	Scripting		✓	

New Feature	Workspaces	Impacts End Users	Impacts Administrators	Requires Administrator Action*
Random Number Through Scripting	Scripting			

* 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.

2308 Browser Support

SAP CPQ 2308 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

BRIM Integration - Subscription Contract Renewal Process Capabilities

SAP CPQ can be integrated with SAP Billing and Revenue Innovation Management to provide a workflow for users to automatically create SAP S/4HANA Solution Quotation whenever the SAP CPQ quote is sent to SAP Billing and Revenue Innovation Management. The follow-up documents are created inside SAP Billing and Revenue Innovation Management automatically. Change processes enable maintaining the life cycle of subscription contracts. The change processes to edit the subscription contracts have been enhanced.

The sales representative in SAP CPQ can now perform the following operations:

- Apply change processes on single or multiple contracts.
- Add a new subscription item to an existing contract or create a new contract document with reference to an existing contract.
- Swap an existing subscription item with a new subscription item in a subscription contract.
- Merge different subscription contracts into a single subscription contract document after applying the change process.
- Enable co-term for newly added items or swapped items to align the contract end date to the same date for all items in a contract.
- Perform the cross-sell and up-sell operations on the subscription contracts.
- Edit the latest version of the subscription contract.

Deprecation of Old Salesforce Integration

As previously announced in the [SAP CPQ 2211 Breaking Changes](#) document, the Salesforce REST APIs version 21 to 30 are being retired. This means that the integration of SAP CPQ using these Salesforce APIs is now also retired with the SAP CPQ release 2308. The integration has moved to a partner-based integration.

Enable Setup of Exchange Rate Type Parameter

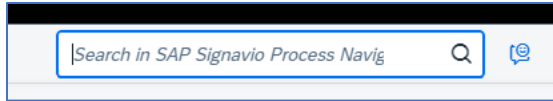
As part of the **General Attribute Mappings** for Quote 2.0, the new parameter **Exchange Rate Type** was added to the **Global Attributes** section. SAP CPQ administrators can set the parameter `exchRateType` when using both stateless and document pricing and with an appropriate rate for conversion available. The mandatory setting stays as default on “M”. When an administrator enters a new string value, this overrides the default value of “M”. The field for `exchRateType` is supported by the **Formula Builder**. This possibility is available for the **No Quote** functionality as well.

The field **Exchange Rate Type** was added under **Setup** → **Providers** → **SAP Integrations** → **General Attribute Mappings** → **Global Attributes**.

Support for Single-Level Configurable Products

The integration of SAP CPQ with SAP S/4HANA Cloud Sales Order was enhanced to support not only simple products but also single-level configurable products. These are products with one root item and no subitems in the Advanced Variant Configurator (AVC) configuration.

For more information, see the scope item Make-to-Order Production with Variant Configuration (1YT) material CM-FL-V00. You can find it by searching for 1YT in the **SAP Signavio Process Navigator** under <https://me.sap.com/processnavigator>.



Enable Certificate Based Authentication between SAP CPQ and Solution Order Management

The Client Certificate REST authentication is enabled in SAP Cloud Integration for the integration between SAP CPQ and SAP S/4HANA Cloud Solution Order for the below iFlows:

- Products
- Business Partner
- Quote

Resolved Support Issues

1. Fixed an issue where a quote coming from SAP Cloud for Customer could not be created when a custom field had no value.

General

New Features and Improvements

New SAP CPQ tenant URL

All customers must adapt to the new URL format by the time 2308 goes to production or they will risk a **production system downtime**. For the mandatory steps to take before the release of SAP CPQ 2308, see [SAP CPQ Tenant URL](#) on the SAP Help Portal.

Data Center Transition to Microsoft Azure

In the next 2 to 6 months, most of the SAP CPQ cloud services will transition to the Microsoft Azure infrastructure. Solutions serviced in the SAP data centers as well as Disaster Recovery are planned to move to Microsoft Azure data centers.

For a smooth transition, there are a few steps you must take in preparation. For more information, see the [Customer Checklist](#) on the SAP Help Portal.

Single Sign-On Login Enhancement

A new button on the login screen enables you to use single sign-on to an Identity Provider with one click. For this feature to work, configure the new federation module for SAP CPQ and use the tenant URL for logging. For more information, see [Federated Single Sign-On](#) and [SAP CPQ Tenant URL](#).

Resetting a Product Configuration

While working on a product configuration, users can now reset it. Choosing **Reset** (besides the **Add to Quote** button) discards the settings made in all tabs, returns to the initial attribute values, and picks up the configuration on the starting tab.

Resetting works differently depending on whether users are configuring a product from the catalog or from their favorites:

- From the catalog, the configuration restarts with the default values.
- From the favorites, the configuration restarts with the values stored in the favorites.

Resizing to 200 Percent

The SAP CPQ user interface has been made more accessible with the option to resize the content to up to 200 percent.

New Alternatives to CLR Module Import Added

New alternatives to the CLR Module Import are being added to make SAP CPQ more robust and stable. Additionally, this paves the way for the planned end of the CLR Module support after SAP CPQ release 2311. For more information, see [Alternatives to CLR Module Import](#).

Resolved Support Issues

1. In the case of recursive module imports, the error message has been improved to explain better that the script is already loaded and there is a possible recursive import.
2. A problem was fixed where some new records weren't logged in the audit trail. Now, in case of updating or creating a company code using a user import, the changes are logged in the audit trail as expected.
3. The use of the QUOTE_TABLE tag has been enhanced to now work inside the header or footer of a document generation processing template.
4. Administrators can now use the parameter ALTER_TABLE_COMMAND_TIMEOUT to define the duration of timeout when users are creating custom fields in quote items.
5. An error during the import of **Attributes Translations** was fixed to allow single quotation marks now also in the **Attribute System ID** name.

Quote 2.0

New Features and Improvements

Advanced Conditions for Quote Visibility

Administrators can now easily configure advanced conditions for quote visibility rules under **Setup** → **Quotes** → **Quote Visibility** without technical knowledge of SQL and CPQ database queries like before.

By default, users can only view quotes that they have created under **Load Quotes** → **My Quotes**. Quote visibility rules allow you to define which other quotes your users can view in the **Other Quotes** tab.

With advanced conditions, you can intuitively define complex visibility rules based on objects (quote, quote owner, user, or involved party) and their attributes (for example, status of quote, name of quote owner, and so on).

The screenshot displays the 'Advanced Conditions' configuration window. At the top, there are two toggle switches: 'Advanced Conditions' (which is turned on) and 'Query' (which is turned off). Below the toggles, the 'Advanced Conditions' section contains three rows of conditions, each with a delete icon (X) on the right:

- Condition 1: Involved Party (dropdown) Bill-to party (dropdown) Country (dropdown) Equal (dropdown) Object (dropdown) User (dropdown) Country (dropdown)
- Condition 2: Quote Owner (dropdown) Company (dropdown) Equal (dropdown) Object (dropdown) User (dropdown) Company (dropdown)
- Condition 3: Involved Party (dropdown) Ship-to party (dropdown) Country (dropdown) Equal (dropdown) Object (dropdown) User (dropdown) Country (dropdown)

Below the conditions is an 'Add Condition' button. Underneath, the 'Select Advanced Condition Logic' section has three radio button options: 'AND logic between all conditions', 'OR logic between all conditions', and 'Custom logic' (which is selected). At the bottom, a text box shows the logic expression: '(1 AND 2) OR (2 AND 3)'.

In the example screenshot, the configured advanced conditions enable the user to view quotes of other quote owners that work in the same company and of involved parties (bill-to party, ship-to party) that are in the same country as them.

Migration Notes for Existing Rules on Quote 2.0 Tenants: Permission Groups

Customers without previously configured queries can only use the new advanced conditions. If you already use SQL and CPQ database queries to define visibility conditions, you can keep using them, but we recommend that you transfer your rules to the new advanced conditions in the setup.

This feature introduces a breaking change for the relationship between permission groups in quote visibility rules. Before 2308, the relationship between permission groups was AND, now it is OR.

If you have rules that define visibility based on a combination of user permissions, in 2308 the selected permission groups in those rules are migrated to **custom permission groups** to keep the AND relationship.

For example, you had a quote visibility rule that defined the user's visibility based on values from the permission groups **Company** AND **User Type**. As of 2308, without migration the new OR logic would apply, meaning that the user's visibility would be based EITHER on the company OR the user type. With the migration, the visibility rule will instead have a new custom permission group selected with the previously configured values for companies and user types.

The migrated custom groups have the following properties:

- Name: "Quote visibility permission group + #Previous ID#". This enables you to recognize them by the ID of your previous visibility rule.
- Description: Contains the permission fields that were migrated.

Character Length Limit for Quote Fields

Administrators can now restrict the number of characters that their users can input for the following fields:

- For custom fields of quotes, in the type **Free Form** with the setting **Character Limit** (under **Setup** → **Quotes** → **Custom Fields**).
- For custom fields of quote items, in the type **Text** with the setting **Character Limit** (under **Setup** → **Quotes** → **Fields, Calculations, Layout**).

- For cart comments of quotes, with the application parameter **Set the character limit for the cart comment field** (under **Setup** → **General** → **Application Parameters** → **Shopping Cart and Quotes**).

The character limit for these fields is validated on the user interface, with the API, and through scripting. This new setting helps to minimize inconsistencies and integration errors that may happen when you integrate with external systems based on such limitations.

Note that the new character limit is available for both Quote engines with a few differences:

- For free forms, the character limit is 4,000 in Quote 2.0 and 2,000 in Quote 1.0.
- In Quote 1.0, character limits are validated for responsive design only.

New Actions for Multiple Items: Select, Copy, and Delete

Users can now work with multiple items on Quote 2.0 as follows:

- **Multiselection:** You can now select more than one item on a quote and use the **Select all** checkbox to select at once all the items in the quote.
- The buttons **Delete** and **Copy** are enabled when several items are selected.

Drag & Drop Items

Users can now drag and drop items anywhere on the current quote page. Drag and drop allows you to rearrange the order of main items, and line items within the same product configuration.

For example, in the screenshot below, the item 1.5.2 can't be dragged to position 1.4, but only within the line items below 1.5 (1.5.1 - 1.5.4). And if the item 1.5 is rearranged one position up to 1.4, then all subitems are moved along as well.

Products

<input type="checkbox"/>	Item		ItemType	Quantity	Cost
<input type="checkbox"/>	1				
	1.1				
	1.2				
	1.3				
	1.4				
	1.5				
	1.5.1				
	1.5.2				
	1.5.3				
	1.5.4				
<input type="checkbox"/>	2				

Favorite Handling Enhancement

The handling of favorites in the product catalog and in the configurator has been enhanced.

Users can now:

- Add folders and subfolders to organize their favorites.
- Share favorite products and configurations with other users.

SAML Bearer Token Authentication and Authorization

You can now generate SAML 2.0 Bearer Authentication Profiles for Quote 2.0 from scripting. Administrators can set the authentication option for calls that originate in SAP CPQ to external service providers. SAML 2.0 enables web-based, cross-domain single sign-on (SSO), which helps reduce the administrative overhead of distributing multiple authentication tokens to the user.

Dynamic Condition Mapping Based on Line Item Values

Users can now define two different conditions that are mapped to the same column. The functionality and visibility of the new column are controlled by the new parameter **Use formula for Condition determination** that was added under **Setup** → **Pricing/Calculations** → **Pricing Procedures** → **Settings**. This feature is valid for Quote 1.0 and Quote 2.0.

Removal of Manually Priced Conditions

When an item condition in SAP CPQ is changed, the user can remove any manually set priced condition for SAP Variant Configuration and Pricing products. The removal is possible on field level for each item in a cart. After removing any manually set priced condition for SAP Variant Configuration and Pricing products, a recalculation process is triggered.

Razor Validation for Responsive Templates

As already announced with the 2305 release, [Razor code](#) is now validated when administrators customize a responsive template (**Setup** → **User Interface Design** → **Responsive Templates**).

- In the current 2308 release, you can still save custom templates that contain invalid Razor syntax. A warning appears pointing to the code lines that must be fixed.
- From the 2311 release onwards, you will no longer be able to save existing responsive templates that contain invalid Razor code.

We recommend that you already start fixing your custom templates with the 2308 release. You'll find all the details and instructions under [Razor Validation in Responsive Templates](#) in the *SAP CPQ Setup and Administration Guide*.

Resolved Support Issues

1. When users configure a product in which an attribute price is derived from an SAP S/4HANA back-end system, the price is now displayed in the **Configuration Summary**.
2. Through scripting now it's possible to set as empty (null) the value of an autocomplete attribute for a custom field.
3. When you create an item with the `Quotes` API, the timestamp in the collaboration comment is now corrected and uses the time zone of the user.
4. Users can update the default permissions editability through the `QuoteFields` API by sending the `permissionId` and `statusId` with the value 0.
5. When users add a product to a quote and set to **Optional** the item type of the parent product, child items are now also optional. Before this fix, child items were of type **Base**.

6. When opening a non-editable quote with a link that is taken from the `<*QuoteLink*>` CTX tag, users were being redirected to the overview of quotes. Fixed, now they view the quote as expected.
7. Fixed an issue where the quote fields **Date Created** and **Date Modified** didn't use the date format and separator as defined in the **User Page** after changing the date settings.
8. An issue was fixed where values with the formats part numbers and quantity that were added to the quote in bulk, didn't get erased during the bulk validation, but were retained.
9. It is not possible to create sections without names under **Deal View/Solution Design** in the **Section Builder** anymore. A new section only gets saved if it has a valid entry. Users can delete or rename blank sections that were created previously.
10. A problem with setting workflow permissions for **Custom Actions** using a REST API in Quote 2.0 was fixed.
11. The field **Display summary in the quote** is now available on the **New Field** screen.
12. An issue with the generation of multiple documents that were generated via scripting was fixed.
13. An issue with the **Product Delete** event was fixed for Quote 2.0. Now all items with a particular product type get deleted again as before.
14. The **Label** prefix for all free form attributes in the **Product Configurator** has changed from **Choose** to **Enter**.

You can use the following display types:

- Free Form, Exact Match
- Free Form, Exact Match w/ Otherwise Option
- Free Form, Match Lower
- Free Form, Match Upper
- Free Input, no Matching
- Free Form, Set Match Lower
- Free Form, Set Match Upper

15. Fixed an issue where an end user could not view quotes in the **Other Quotes** tab. Now the quote visibility works when the administrator sets visibility conditions.
16. Fixed an issue where the application parameter **Allowed Content File Extensions** was case sensitive. Now administrators can enter file extensions in either upper case or lower case (for example, both “PDF” and “pdf” work).
17. The item calculations for rolled-up net and list prices are now updated when the user changes the values entered for quantity fields.
18. Fixed an issue where duplicated entries appeared on the Quote list. Now only one line (quote) on the quote list can be viewed.

Quote 1.0

New Features and Improvements

Character Length Limit for Quote Fields

Administrators can now restrict the number of characters that their users can input for the following fields:

- For custom fields of quotes, in the type **Free Form** with the setting **Character Limit** (under **Setup** → **Quotes** → **Custom Fields**).
- For custom fields of quote items, in the type **Text** with the setting **Character Limit** (under **Setup** → **Quotes** → **Quote Item Custom Fields**).
- For cart comments of quotes, with the application parameter **Set the character limit for the cart comment field** (under **Setup** → **General** → **Application Parameters** > **Shopping Cart and Quotes**).

The character limit for these fields is validated on the user interface, with the API, and through scripting. This new setting helps to minimize inconsistencies and integration errors that may happen when you integrate with external systems based on such limitations.

Note that the new character limit is available for both Quote engines with a few differences:

- For free forms, the character limit is 4,000 in Quote 2.0 and 2,000 in Quote 1.0.
- In Quote 1.0, character limits are validated for responsive design only.

Resolved Support Issues

1. When users add a product to a quote and set to **Optional** the item type of the parent product, child items are now also optional. Before this fix, child items were of type **Base**.
2. Fixed an issue in the quote list where non-editable fields became editable while working on an editable field. Now, only editable fields can be maintained.
3. Fixed an issue when the selected dictionary for document generation was not considered when a document was generated via scripting.
4. Fixed an issue where the API retrieved empty quotes if the quote items were using custom fields of type Attribute or Autocomplete that sourced from a custom table.
5. In Quote 1.0, the approval history will not get copied on copying a quote or creating a new revision.
6. Fixed an issue where a quote coming from SAP Cloud for Customer could not be created when a custom field had no value.
7. Fixed an error that occurred when trying to set a free form custom field to “None” through scripting.
8. Fixed an issue where the application parameter **Allowed Content File Extensions** was case sensitive. Now administrators can enter file extensions in either upper case or lower case (for example, both “PDF” and “pdf” work).
9. Fixed an issue where duplicated entries appeared on the Quote list. Now only one line (quote) on the quote list can be viewed.

API

New Features and Improvements

New APIs on the SAP Business Accelerator Hub

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

- [Product Tabs](#)
- [Quote Tabs](#)
- [Quote Tab Permission](#)

Scripting

New Features and Improvements

New Global Script Event: On Changing Standard Quote Fields

On Quote 2.0, you can now attach global scripts to the new event **On changing standard quote fields**. This event can be executed for changes on the standard fields **Market**, **Pricebook**, and **Effective Date**.

Revisions and Approvals Through Scripting

In addition to the user interface, you can now also manage quote revisions and the approval process through scripting.

Random Number Through Scripting

You can now generate a random number through scripting with the class *Random*.

Resolved Support Issues

1. Fixed an issue where script execution for an attribute trigger in a child product failed.
2. Fixed scripting method in the `AuthorizedRestClient` interface for getting an access token.
3. Fixed the performance issue when the values are assigned to the text quote item custom field through scripting.

Breaking Changes

On the SAP Help Portal, see the page [Latest Breaking Changes and Announcements](#) for detailed information on the following breaking changes:

- Adoption period of new SAP CPQ tenant URL ends with the 2308 production release.
- OR logic for permission groups of quote visibility rules as of 2308 release.
- In the next 2 to 6 months, most of the SAP CPQ cloud services will transition to the Microsoft Azure infrastructure.
- Breaking changes for document generation processing and preprocessing as of 2308.
- Removal of REST API Salesforce Integration (Version 21-30) with SAP CPQ as of 2308 Release.
- CLR module import no longer supported as of 2311 release.

- Custom CPQ razor code invalid in responsive templates as of 2311 release.

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](#)
- [Archive of Breaking Changes and Announcements](#)
- [Release Schedule and Dates for 2023](#)
- [Subscription Instructions](#)