

Conga Digital Commerce

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Request quotes or place orders through a single digital commerce platform, providing a unified and modern buying and selling experience.

Digital Commerce Release Notes

Discover what's new in the latest release of Conga Digital Commerce.

- Spring21.08.27 Release Notes
- · Spring '21 Release Notes

Spring21.08.27 Release Notes

This release note contains the following information about Digital Commerce Spring21.08.27 Release.

For more information on new features, enhancements, and document improvements refer to What's new in Digital Commerce Documentation.

- · Packages: Lists packages that are required to upgrade to this release of the product
- System Requirements and Supported Platforms: Lists requirements and recommendations for installing this release
- New Features: Provides high-level descriptions of new features introduced in this release, with links to more detailed information
- · Enhancements: Provides high-level descriptions of enhancements to existing features
- · Data Model Changes: Lists changes to the data model
- Resolved Issues: Lists customer-reported issues that are resolved in this release or known issues resolved from previous releases
- Known Issues: Lists known issues that are applicable in this release
- This documentation may contain descriptions of software features that are optional and for which you may not have purchased a license. As a result, your specific software solution and/or implementation may differ from those described in this document. Please contact your CSM or AE for information on your specific features and licensing.

Packages

The following packages and dependent packages are required to upgrade to this release to utilize all the new features of this release. These are the *minimum* required versions; later versions are also supported. Separate prerequisites for each feature can be found in the respective guides. The packages marked as **(New)** are new packages in this release.

| Product | Latest Certified Version |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| | Version Name Version Number |
| Conga Contract Lifecycle Management | 12.0.0605 12.605 |
| Conga Digital Commerce (New) | 5.132.3 5.132.3 Spring21.08.27 A This is a Turbo enabled release. For non-Turbo, see Digital Commerce Winter '20 |
| Conga Digital Commerce SDK (New) | documentation. 2101.1.11 (2101) |
| TurboPricing (New) | 2021.8.1 |
| (For details, see Enabling TurboPricing in an Org) | 202.10.1 |
| Conga Quote Management | 11.0.0242 11.242 |
| Conga Base Library (Pre-requisite for Installing Conga Configuration & Pricing) | 2.0.150 2.150 |
| Conga Configuration & Pricing | 13.0.1882 13.1882 |
| Conga Quote Configuration Integration | 13.0.0354 13.354 |
| Conga CPQ Setup | 13.0.97 13.97 |
| Conga CPQ API | 13.0.0120 13.120 |
| Conga Promotions (Required if you are using Promotions) | 1.0.0000 1.0 |
| Conga Quote Asset Integration (Required if you are using Assets Based Ordering) | 6.5.0014 6.14 |

| Product | Latest Certified Version Version Name Version Number |
|------------------------|---------------------------------------------------------|
| Conga Order Management | 1.0.0000 1.0 |
| Conga Billing | 7.1.262 7.262 |

(i) Before installing or upgrading Conga managed packages, you must review the dependency matrix for each managed package. You can refer to the package dependency matrix at Conga Packages Dependency Matrix.

System Requirements and Supported Platforms

The following table lists the minimum requirements for installing and using Digital Commerce.

| System Requirement | Minimum Supported Version |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System | Standard Salesforce.com requirements. See Salesforce PDF. |
| Browser | Conga supports the following browsers: • Microsoft Edge Chromium • Google Chrome Conga recommends the latest version of the browser for the best performance. Conga also recommends its customers to use Microsoft Edge Chromium as the browser of choice. A Internet Explorer is not supported. |

Upgrade Notes

For more information on the prerequisites and post-upgrade tasks, see Upgrading Digital Commerce.

New Features

The following features are new to Digital Commerce in this release.



Important

This release (Spring21.08.27) is developed for use with Turbo Engines only.

Export Native Configuration Component to Extend for Customization

The Digital Commerce SDK is enhanced to allow exporting the Native configuration component thus enabling you to extend the component to further modify the UI template. For more information, see Digital Commerce SDK.

Enabling API Filters

Digital Commerce contains headless APIs, which are used from the SDK and can be used independently too. The Query API accepts JSON input with filters, conditions, fields, lookups, and relationships for an object to fetch records. Implementing Digital Commerce applies global filters by default.

You can now bypass and override global filters by setting the Enable API Filters flag to False from the Storefront object. By default, this flag is set to True. For more information, see Enabling API Filters.

New Admin Setting to Control the Batch Size of Cache Records

Digital Commerce has a cache in place that stores dynamic queries so that the APIs do not have to rebuild them every time they are used. Every time an API is called, the default (50) cached records are pulled into the memory proactively to more intelligently speed up the API. There was no way to override the number of cached records.

A new admin setting named APTS_ApiCacheHydrateSize is introduced to override the default batch size. For more information, see Digital Commerce Application Caching.

New Convert Currency Pipe

A new pipe named *ConvertCurrencyPipe* is introduced to perform client-side currency conversion for aggregate fields or any fields where Salesforce limits the results to default currency on the org. The pipe ConvertCurrencyPipe is part of the Digital Commerce SDK and

exposed to templates and its usage is aligned to the Angular standards of calling currency pipe.

Example 1:

- {{ 5.55 | convertCurrency | async }}
- <!-- Renders \$5.55 --> When no parameters are passed to the pipe, it converts and displays the currency based on the one defined on the Price List.

Example 2: (Specify currency ISO code)

- {{65.23 | convertCurrency: 'EUR' | async}}
- <!-- Renders €65.23 --> You can pass any currency code to the pipe, to convert the values to. Based on the conversion rates defined in the org, the pipe does the conversion and displays currency values.

The following optional parameters can also be passed into this pipe to control the decimal representation, currency symbol, and more.

| Parameters | Description |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| display | Displays the currency symbol. It can take values like code, symbol, symbol-narrow, a customized string, or a boolean. The default is symbol-narrow. |
| digitsInfo | A string representing the decimal part of the currency value. |

For more information, see Digital Commerce SDK and go to *Modules > PricingModule > Pipes > ConvertCurrencyPipe section*.

Addition of a New Input Property to Chart Components

A new (optional) input property has been added to our chart component to allow you to define the currency values you wish to see on the dashboard components.

Example: <apt-chart [currencyConversionCode]="EUR"> </apt-chart>

If no input is provided, the currency conversion is driven by the default currency specified in the configuration files. For more information, see <u>Digital Commerce SDK</u> and go to *Components > Chart Component* section.

SDK Integration with Digital Commerce for Turbo Data APIs

Digital Commerce SDK is integrated for Turbo Data APIs that are part of the TurboPricing component with this release. TurboPricing is an optional pricing engine built using microservices to reduce the processing time on the cart. This release enhances the performance with reduced time in fetching the master data such as product details, categories through Turbo Data APIs only. To gain performance benefits, you must configure TurboEngines with Turbo tenant onboarding. For more information, see Configuring TurboEngines and Digital Commerce SDK.

SDK Integration with TurboPricing

Digital Commerce introduces TurboPricing integration for pricing calculations to offload complex pricing computation workload from the Salesforce platform to the Conga Flexible Compute Platform. TurboPricing is an optional pricing engine built using microservices to reduce the processing time on the cart. For more information, see Configuring TurboEngines and Supported Features in Digital Commerce With TurboPricing Integration.

Product Search and Catalog View Enhancement to Turbo Data APIs

The Turbo Data APIs are enhanced to build and consume (front-end or APIs) search and catalog views in your applications, requiring searching, sorting, filtering, paginating, grouping, and aggregation capabilities in Digital Commerce APIs. For more information, see Configuring TurboEngines and Digital Commerce SDK.

Enhancements

The following section describes existing features that are changed (or are no longer supported) in this release.

Export line-item-table-row Component to Extend for Customization

The Digital Commerce SDK is enhanced to allow exporting the line-item-table-row component in the LineItemTableRowModule to extend the component to further modify the UI template. For more information, see Digital Commerce SDK

Real-time Synching of Configuration Changes from the Mini Cart

Changing the Quantity or deleting a line item from the mini cart reflects the changes in real-time on the Product Details page and the Cart page.

Expand and Collapse All Icons on the Product Details Page

The Product Details page is uplifted for consistent behavior of the Expand or Collapse All feature globally as well as for OptionGroup and AttributeGroup sections. For more information, see Viewing the Product Details.

Support for Usage Price Type with TurboPricing

Use of Price Type = Usage is now supported with TurboPricing. For more information, see Supported Features in Digital Commerce With TurboPricing Integration.

Support for Models with Expose Decorators

The Digital Commerce SDK has been updated with the following model changes to be used with expose decorators. For more information, see Adding Custom Fields on Object Models.

- CartLineitem
- AdjustmentLineitem
- · Incentive
- SummaryGroup
- TaxBreakup
- TaxCode
- · Cart

- AppliedRuleActionInfo
- · AppliedRuleInfo
- Account
- AssetLineitem
- OrderLineitem
- Order
- · QuoteLineitem
- · Quote

Update to the Pricing API with LineNumber as Query Parameter

The Pricing API is updated to include lineNumber as a query parameter. This query parameter is used to pass the line number(s) to return only associated lineitems after pricing. Do not pass the lineNumber in the following cases:

- All the line items need to be retrieved
- · One line item having dependent pricing change on unrelated line items in the cart

For use cases like Related Pricing, all the related line items or the entire cart must be passed for the correct pricing results. If all related lines in the cart are not passed pricing may not be accurate. For more information, see CPQ REST API Version 3.

Disabled Alias Flag for Fast Processing

Changes are made to few models to expose decorators and turn off the alias flag for all the cart services. This change is made to avoid normalization of the fields at the backend that takes a lot of processing time to convert API names to alias names. With this change, the response for all the cart actions is with API names instead of the alias name. For more information, see Adding Custom Fields on Object Models.

Data Model Changes

There are no data model changes in this release.

Resolved Issues

The following table lists the issue resolved in this release.

| Case Number | Conga Internal ID | Description |
|-------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N/A | DC-6953 | Categories were not filtered based on the Pricelist mentioned on the Storefront record. Instead, on the Catalog page, under Categories, all the child categories were displayed. |

The following table lists the known issue resolved from the previous release.

| Conga Internal ID | Description |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC-5906 | Increasing the quantity for one of the multi-charge types of a product and validating the change, the quantity was not updated and the net price was not properly calculated. Conclusion: Option rollup line items are read-only fields. |
| DC-6334 | Constraint rule error message is displayed on the catalog page even though the primary cart had no errors. |
| | Conclusion: CaaS does not work with Classic Pricing mode due to Turbo Pricing integration. |

Known Issues

The following table provides the cumulative list of known issues up to this release.

| Conga Internal ID | Description |
|-------------------------|--------------------------------------------|
| DC-7018 | Deleting an asset line item does not work. |

Spring '21 Release Notes

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| Product | Latest Certified Version Version Name Version Number |
|-------------------------------------------|--------------------------------------------------------------------------------------------------|
| Conga Contract Lifecycle Management (New) | 12.0.0605 12.605 |
| Conga Digital Commerce (New) | 5.0.131 5.131 Spring '21 |
| | A This is a Turbo enabled release. For non-Turbo, see Digital Commerce Winter '20 documentation. |

| Product | Latest Certified Version Version Name Version Number |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Conga Digital Commerce SDK (New) | 2101.0.102 (2101) |
| Conga Quote Management (New) | 11.0.0242 11.242 |
| Conga Base Library (New) (Pre-requisite for Installing Conga Configuration & Pricing) | 2.0.150 2.150 |
| Conga Configuration & Pricing (New) | 13.0.1882 13.1882 |
| Conga Quote Configuration Integration (New) | 13.0.0354 13.354 |
| Conga CPQ Setup (New) | 13.0.97 13.97 |
| Conga CPQ API (New) | 13.0.0120 13.120 |
| Conga Promotions (Required if you are using Promotions) | 1.0.0000 1.0 |
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| Conga Order Management | 1.0.0000 1.0 |
| Conga Billing (New) | 7.1.262 7.262 |

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System Requirements and Supported Platforms

The following table lists the minimum requirements for installing and using Digital Commerce.

| System Requirement | Minimum Supported Version |
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| Browser | Conga supports the following browsers: • Microsoft Edge Chromium • Google Chrome Conga recommends the latest version of the browser for the best performance. Conga also recommends its customers to use Microsoft Edge Chromium as the browser of choice. |

Upgrade Notes

For more information on the prerequisites and post-upgrade tasks, see Upgrading Digital Commerce.

New Features

The following features are new to Digital Commerce in this release.

Support for Collaboration Header for Creating Collaboration Request

From the Spring '21 release, Digital Commerce uses the Collaboration header for creating collaboration request via API and SDK integration to create quotes and orders.

With API integration, the [POST] /collaborationrequests API is used to create collaboration request. Using [POST] /collaborationrequests/:recordId/carts, a cart is generated based on the collaboration request. This method when called copies the header fields from the collaboration request to the cart.

With SDK integration, a cart is created from the UI. You can add products to the cart and then checkout.



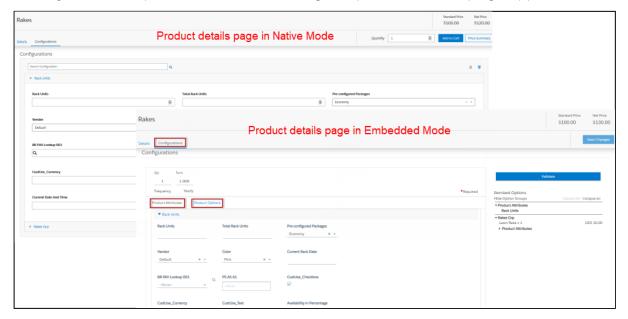
For Proposal and Checkout APIs to work seamlessly, you must assign appropriate user permissions to the custom fields in the Collaboration object.

For Collaboration Request REST API details, see CPQ REST API Version 3.

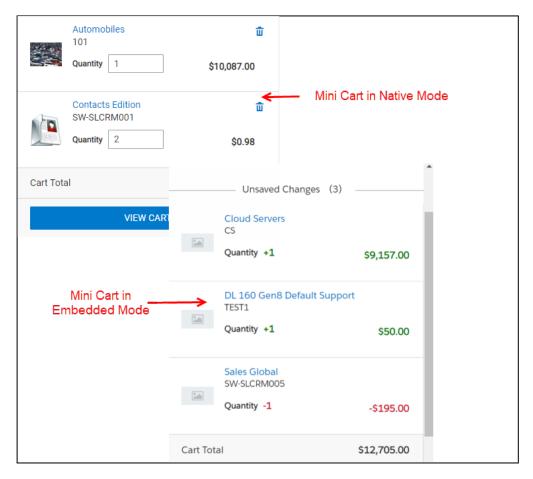
Product Details Page and Mini Cart in Embedded Mode

In Embedded mode, the Product Details page outlines the product configuration section in an iframe. Embedded mode is applicable only for complex products.

When you select a product from the catalog, the product details page appears.



The mini cart displayed in Embedded mode is different. With the Embedded mode, there are two carts available, Main Cart and Secondary Cart. The main cart is the primary cart; whereas the secondary cart is the cart that shadows changes in the main cart and also holds the product being configured as a line item. Any changes to the main cart either manual or automatic (based on rules) are synced to the secondary cart immediately.



For more details on the products details page in embedded mode, see Viewing the Product Details Page in Embedded Mode.

For more details on the products details page mini cart in embedded mode, see Working with the Mini Cart.

Enhancements

The following section describes existing features that are changed (or are no longer supported) in this release.

Additional Feature Support for TurboPricing

The following features and capabilities are now supported for TurboPricing:

- · Base Price Adjustment
- · Base Price Override
- Bundle Effective Adjustments (Group Adjustment)

- · Bundle Only Adjustment
- · Manual Adjustment
- · Conditional Charge Type
- · Price List Item Setting
- · Price Matrix Condition or Dimension
- · Price Rule Entry Effective Dates
- · Price Rule Set
- Price Rules based on Product Group
- · Price Type & Price Method
- Promotions
- Proration
- · Selling Term

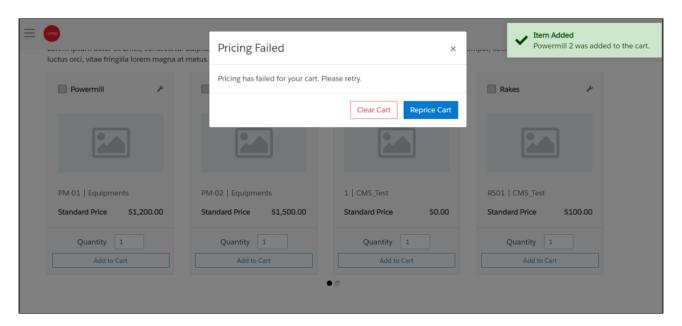
For a complete list of feature capabilities in TurboPricing, see Supported Features in Digital Commerce With TurboPricing Integration.

Behavior on Pricing Failure

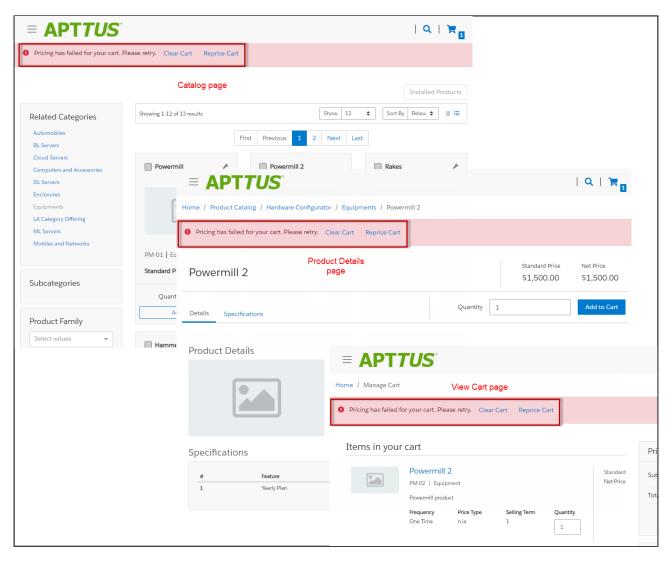
You can set up a pricing fallback when TurboPricing fails. The following flag is available in the environment file.

| Flag | Description |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pricingFallback | By default, this flag is set to False. When TurboPricing fails, an error message is displayed without any further action. Setting this flag to True enables the system to use CPQ pricing. |

You can also set up a pricing retry mechanism if you want further action when the TurboPricing or CPQ Pricing fails. When pricing fails a pop-up appears with the **Retry** and **Clear Cart** buttons.



When the user clicks Retry, Digital Commerce performs pricing again; when the user clicks Clear Cart, Digital Commerce clears the cart if you do not want it to perform repricing. If the user moves away from the pop-up without performing any action, these buttons are still available in the top bar of the Catalog, Product details, and View Cart pages.



For details on the pricing mechanism, see Pricing Mechanism.

Data Model Changes

The following objects and fields are introduced to or changed in the system or data model in this release.



The System/User indicates whether the field is used by the System only (System), or if the field may be used for integration updates (User). The below given all fields are consumed by Users and updated by System.

| Object | Fields | Description | System /User | New/ Changed |
|------------|-----------------------|----------------------------------------------------------------------------------|-----------------|-----------------|
| Storefront | | | | Changed |
| | Enable API Filters | When enabled, additional data filters are applied to APIs related to Storefront. | User | New |

Resolved Issues

The following table lists the issue resolved in this release.

| Case Number | Conga Internal ID | Description |
|-------------|-------------------|----------------------------------------------------------------------------------------------|
| 00112553 | DC-6315 | The application failed when deleting the line item from a cart that had only one item in it. |
| 00112390 | DC-6311 | Constraint Rule message appeared even after deleting the product in condition. |
| 00111969 | DC-6256 | While performing a search, a CPU timeout issue occurred. |
| 00111620 | DC-6243 | Incorrect currency was displayed in the Digital Commerce UI. |
| 00111278 | DC-6206 | Error messages were displayed after metadata change in an object due to API cache. |

The following table lists the known issue resolved from the previous release.

| Conga Internal ID | Description |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC-5911 | After updating the configuration of an existing bundle and navigating to the view cart page to click the wrench icon displayed the previous option instead of the updated option. This was a known issue with TurboPricing integration only. |

| Conga Internal ID | Description |
|-------------------|------------------------------------------------------------------------------------|
| DC-5903 | TurboPricing integration supports 200 to 250 line items for the price calculation. |

Known Issues

The following table provides the cumulative list of known issues up to this release.

| Conga Internal ID | Description |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC-6334 | Constraint rule error message is displayed on the catalog page even though the primary cart had no errors. |
| DC-5906 | When you increase the quantity for one of the multi-charge types of a product and validate the change, the quantity is not updated and the net price is not properly calculated. |

About Conga Digital Commerce

Digital Commerce is the activity of electronically buying or selling products on online services or over the Internet. Digital Commerce has three main components: Web Commerce, Mobile Commerce, and Social Commerce, thus connecting channels and devices. Digital Commerce enables consumers to shop from their homes and offices, and even on the move.

As an administrator, you can use CPQ to perform configuration and pricing tasks to build the catalog page for your e-commerce website. Configuration involves creating products, options, attributes, categories and associating them appropriately with each other for visibility on the Catalog page. A product can be created as a standalone product or as a bundle product with options and attributes. You can control the selection of a product on the catalog page by configuring constraint rules. You can also control the selection of attributes on the configuration page of a product by setting up an attribute-based configuration for that product. Pricing enables you to set up pricing structures for the products so that the price for all products is calculated accurately. Pricing has two components: Price Lists and Price List Items. A price list controls the visibility of products to the user. A price list contains several price list items, each linked to a product. CPQ calculates the price for each product based on the applied price list, price list items, and various pricing and discounting rules.

After you have used CPQ to configure products and pricing, you can associate the price list to the storefront object within the Digital Commerce package. After your catalog has been set up, the next step is to create a Storefront record. The storefront object is very basic and contains only two fields to map a storefront to a price list and logo for the guest user. The price list refers to the price list you want the guest user to access and the logo must be an ID or a URL of the logo attachment for the store. The storefront record also has a banner related list that can be used to set up banners for the jumbotron component in the reference template.

You can define the asset management functions with different data objects to track quote details until an order is fulfilled. You can set up multi-language websites. You can apply promotions, make secure payments, and calculate tax on your cart page.

Digital Commerce allows an administrator to perform the following administrative tasks:

- Set up and activate communities
- · Install Digital Commerce Package and dependent packages
- · Post-deployment community setup
- · Assign Digital Commerce permission set
- · Create a custom field on account for the price list

- Set up single and multiple stores
- · Payment integration using Cybersource Payment
- · Tax integration with Avalara tax engine
- · Set up a multi-language storefront using translations
- · Set email notification template for checkout
- · Enable state and country picklists
- · Add a storefront record
- · Add storefront promotional banners and associate it with the storefront record
- · Clone and install the reference template
- · Configure templates
- Set up the local development environment
- · Server Deployment
- · Customize your application
 - · Customize HTML content and standard components
 - · Add custom fields on object models
 - · Add custom attributes to a product
 - · Customize logic in the services
 - · Customize the template page with a custom field
 - Optimize Search Engine

Digital Commerce allows a user to perform the following tasks:

- General Administration
 - Assign permission sets for user access
 - · Set up Master Data
- · Browse the product catalog
- Search products and view product details
- · Add products to the cart
- · Manage accounts
- · Manage assets
- · Configure products with options and attributes
- · Apply promotions on the products in the shopping cart
- Compare product features
- Manage cart
 - · Request a quote
 - · Manage payments
 - · View tax details
 - · Working with multi-language storefront
 - · Checkout of the cart
- Manage product configuration rules Constraint Rules and Attribute-based configuration rules. For more information, see Product Configuration. The differences

in feature and capability support in Digital Commerce in comparison with CPQ are listed below:

- For Product Attribute Rules, the scope must be Product and Product Family. The permitted values for Digital Commerce are:
 - · Allow
 - Default
 - Hidden
 - Disabled
 - Required
 - Reset
- For Attribute Value Matrix, the scope must be Product and Product Family. The permitted values for Digital Commerce are:
 - Default
 - Constraint
 - Force Set
- Options Configuration The minimum and maximum options configuration
 works at all levels of option groups. In Digital Commerce, only three levels are
 supported. Also, the minimum and maximum product quantity and total
 quantity validation work for all levels of option groups.
- Constraint Rules Constraint Rules are supported for standalone, bundle, and option products for basic inclusion, exclusion, and recommendation type rules.
 - On the Product Level, all the rules are applied only when you have selected the Match in Primary checkbox.
 - On the Product Option Level, all the rules are applied only when you have selected the Match in Options checkbox and a combination of the Match in Primary and Match in Options checkboxes.

Key Terminology

It is important to understand how terms are used when working with Digital Commerce.

| Term | Description |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Configure Price Quote (CPQ) | Conga solution for configuring products, setting up pricing, and generating quotes. For Digital Commerce, CPQ is a prerequisite for master data setup. |

| Term | Description |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partner Commerce | Partner Commerce enables your partner company to create quotes, configure products, and manage orders for the end customer to ensure faster selling and up-time without your support. |
| Product Catalog | A view that allows hierarchical categorization of products for users to search through and add to their configuration. |
| Products | A product or service that can be sold on its own as a standalone item, an option of other products, or as part of a bundled product. |
| Assets | Assets define a purchased product or service. An asset is associated with an account. After being processed and fulfilled, new quotes and orders result in new assets, which are listed on a customer's account and a line item from an asset becomes an Installed Product. |
| Promotions | A promotion is a marketing technique that you apply to reduce the list price of a product or a service. You can create such promotion and restrict the scope, limit, and benefits so your sales representatives apply this promotion to specific products, for specific customers, and for a limited period. |
| Options | A product that can be sold along with another product. |
| Attributes | Features of a product, such as color, size, weight, and more. |
| Constraint Rules | Rules that drive automatic inclusion, exclusion, recommendation, or replacement of products selected on the catalog page. Each Constraint Rule is composed of three parts: the Rule Detail, the Rule Condition, and the Rule Actions. |
| Communities | Conga leverages Salesforce Communities to host your Digital Commerce site providing authentication and hosting features for your storefront. You can create multiple communities within your organization for multiple storefronts. |

| Term | Description |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storefront | A custom object that is part of the E-Commerce package. The storefront object maps a storefront to a price list and other basic information such as logos, banners, and more. |
| Reference template/application | Base template provided by Conga for further development and customization as per your requirement. |
| Payment Integration | Digital Commerce payment integration using Cybersource. |
| Tax Integration | Tax integration using Avalara tax engine with the help of a Tax Callback class. |
| Translations | If your org has multiple languages enabled, use Translation Workbench to maintain your translated labels in your org. You can manage translated values for any Salesforce supported language. |
| Quote | A structured definition of a prospective sale that contains product configurations, pricing, and customer opportunity information. |

What's New in Digital Commerce Documentation

The following section lists changes in the documentation to support each release.

Spring '21

| Docume nt | Topic | Description |
|--------------|------------------------------------------|------------------------------------------------------------------------------------|
| Spring '21 | Changing Collaboration Request Type | New topic for instructions on changing the collaboration type to Digital Commerce. |
| | Digital Commerce Application Caching | New topic for information on the use of API Cache object. |
| | Configuring Digital Commerce Application | Updated information based on complete implementation and deployment. |
| | Adding a Storefront Record | Updated information based on data model changes in the Storefront record. |
| | Setting Up the Embedded UI | New topic added for setting up Embedded UI. |
| | Pricing Mechanism | New topic for defining pricing mechanism. |
| | Enabling API Filters | New topic enabling API filters. |
| | Adding a New Locale | New topic with information on how to add a new locale from the template. |
| | Digital Commerce Package Objects | Updated topic with data model change. |
| | Using Custom Objects Through APIs | New topic for using custom objects through REST APIs. |
| | Launching Digital Commerce | Updated the topic with Spring '21 information. |

| Docume nt | Topic | Description |
|--------------|----------------------------------------------------------------------------|------------------------------------------------|
| | Browsing Catalog | Updated images. |
| | Searching for Products | Updated images. |
| | Viewing the Product Details | Updated images. |
| | Adding Products to a Cart | Updated images. |
| | Managing Accounts | Updated the topic with Spring '21 information. |
| | .What's New in Digital Commerce Documentation vSpring-21 | Updated the topic with Spring '21 information. |
| | Application of Constraint Rules | Updated the topic with Spring '21 information. |
| | .What's New in Digital Commerce Documentation vSpring-21 | Updated the topic with Spring '21 information. |
| | Supported Features in Digital Commerce with Embedded UI | New topic listing features capabilities. |
| | Supported Features in Digital Commerce With TurboPricing Integration | Updated the topic with Spring '21 information. |
| | Viewing the Product Details Page in Embedded Mode | New topic to explain the Embedded UI. |

| Docume nt | Topic | Description |
|--------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| | Working with the Mini Cart | Updated topic to include mini cart Embedded UI information. |
| | All topics in Digital Commerce SDK | All topics updated. |
| | CPQ REST API Version 3 | New API's added: Collaboration Request API's updated with TurboPricing Integration |

Winter '20

| Docume nt | Topic | Description |
|-------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Winter20 .04.16 (REV A) | All topics in Digital Commerce SDK | All topics updated. |
| | CPQ REST API Version 3 | Performance-based update. |
| Winter 2020 | Configuring TurboEngines | New topic: A new feature for this release (TurboPricing Integration) |
| | Upgrading Digital Commerce | Updated information about how to upgrade Digital Commerce. |
| | Supported Features in Digital Commerce with TurboPricing Integration | New topic: Supported Features in Digital Commerce with TurboPricing Integration |
| | Searching for Products | Updated the topic with information about searching the product |
| | All topics in Digital Commerce SDK | All topics updated. |
| | CPQ REST API Version 2 | New API's added: Assets, Order, and Quote API's updated with TurboPricing Integration |

Summer 2020 Patch 1

| Docume nt | Topic | Description |
|---------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Summer 2020 Patch 1 | Upgrading Digital Commerce | Updated upgrade information. |
| | Application of Constraint Rules | Updated the topic with information about Constraint Rule Behaviour when Scope = Product Group or Product Family. |
| | All topics in Digital Commerce SDK | All topics updated. |
| | All topics in Digital Commerce for REST API Developers | API's updated with new config info. |

Spring 2020

| Docume nt | Topic | Description |
|----------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spring 2020 | Managing Permissions for Secure Guest User Access to Storefront | Updated topic. Salesforce Winter 2020 security alert introduced during Digital Commerce Winter 2019 and also applicable to Digital Commerce Spring 2020. |
| | Upgrading Digital Commerce | New topic. Added information about how to upgrade Digital Commerce. |
| | Deploying the Application to Salesforce | Updated topic about how to include the UI as a static resource and deploy it to Salesforce. |
| | Managing Assets | Updated the topic with information about changes to the Installed Product User Interface. |
| | Managing the Cart | Updated the topic with information about changes to the My Carts User Interface. |

| Docume nt | Topic | Description |
|--------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Product Configuration | Updated topic: Hiding Option Groups and Options Support for Modifying Option Groups and Options within a Bundle Configuration Support for Required checkbox for Options |
| | All topics in Digital Commerce SDK | All topics updated. |
| | All topics in Digital Commerce for REST API Developers | Introduction of CPQ REST APIs for Digital Commerce. |

Winter 2019

| Docume nt | Topic | Description |
|-------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Winter 2019 Rev B | Managing Permissions for Secure Guest User Access to Storefront | New topic. Resolution added to workaround Salesforce Winter 2020 introduced security alert. |
| | Product Configuration | Modified topic. Added information for enhancements introduced in Winter 2019 Patch 5. |
| Winter 2019 Rev A | About Apttus Digital Commerce | Updated topic to conform with Apttus Documentation standards. |
| | Product Configuration | Modified topic. Added info for supported capabilities. |
| | About Apttus Digital Commerce | Updated topic to conform with Apttus Documentation standards. |
| Winter 2019 | All topics | Restructured to reflect the deployment flow. |
| | Managing Assets | Modified topic. Added info for changing the configuration for assets from the cart. |

| Docume nt | Topic | Description |
|--------------|---------------------------------------|--------------------------------------------------------------------------------|
| | Application of Constraint Rules | Modified topic. Added info for minimum and maximum product validation support. |
| | All topics in Digital Commerce SDK | All topics updated. |

Summer 2019

| Docume nt | Topic | Description |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Summer 2019 Rev B | Application of Constraint Rules | Updated topic. Constraint Rules enhanced to support multiple AND conditions introduced in Summer 2019 Patch 5. |
| Summer 2019 Rev A | About Apttus Digital Commerce | Updated topic. |
| | Enabling State and Country Picklists | New topic. Salesforce org level setting introduced in Spring 2019 Patch 9. |
| | About Apttus Digital Commerce | Updated topic to conform with Apttus Documentation standards. |
| Summer 2019 | Payment Integration Tax Integration with Avalara Tax Engine Setting Up Multi- language Using Translations Setting Email Notification Template for Checkout | New topics. New features for this release. |
| | Managing Assets | Modified topic. |

| Docume nt | Topic | Description |
|--------------|-----------------------------------------|---------------------|
| | Attribute Based Configuration Rules | New topic. |
| | Requesting α Quote | New topic. |
| | Managing Payments | New topic. |
| | Viewing Tax Details | New topic. |
| | Working with Multi- language Support | New topic. |
| | Checkout of the Cart | Modified topic. |
| | All topics in Digital Commerce SDK | All topics updated. |

Spring 2019

| Docume nt | Topic | Description |
|----------------|---------------------------------------------|---------------------------------------------|
| Spring 2019 | Adding Custom Attributes to a Product | Existing topic. Changed config information. |
| | All topics in Digital Commerce for Users | New section for Digital Commerce users. |
| | All topics in Digital Commerce SDK | All topics updated. |

Winter 2018

| Docume nt | Topic | Description |
|----------------|------------------------------------------|--------------------------------------------|
| Winter 2018 | Adding Custom Attributes to a Product | New topic. A new feature for this release. |

| Docume nt | Topic | Description |
|--------------|---------------------------------------|---------------------|
| | All topics in Digital Commerce SDK | All topics updated. |

Summer 2018

| Docume nt | Topic | Description |
|----------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Summer 2018 | All topics in Digital Commerce for Administrators | New section for Digital Commerce administrators with implementation and deployment information. |
| | All topics in Digital Commerce SDK | New section for Digital Commerce SDK for developers. |

Digital Commerce for Administrators

This section describes how Digital Commerce works and how to install, implement and deploy Digital Commerce for your customers.

| Topic | Description |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| What's Covered | This section is designed to provide administrators with information on setting up data to be consumed within Digital Commerce. This section covers the most common use cases for administration and assumes a level of familiarity with basic Salesforce. |
| Primary Audience | Admin users responsible for installing, implementing, and deploying the Digital Commerce solution. |
| IT Environment | For information pertaining to the requirements and recommendations, see System Requirements and Supported Platforms Matrix. |
| Updates | For a comprehensive list of updates for each release, see What's New in Digital Commerce Documentation. |
| Other Resources | See Digital Commerce for Users for basic admin tasks and end-user experience. See Digital Commerce SDK for technical instructions on the installation and setup of a Digital Commerce storefront. See Digital Commerce for REST API Developers for details of the CPQ REST APIs consumed by Digital Commerce. See CPQ documentation for detailed information on setting up the master data. |

This section describes the following tasks:

- Setting up Communities
- · Adding a Storefront record
- · Cloning and installing the reference template
- · Local Development Setup
- · Server Deployment
- · Post Deployment Community Setup

Before using Digital Commerce, you must be familiar with the following:

- · Basic Salesforce administration
- · Salesforce and Conga terms and definitions

Select one of the following topics for more information:

- Getting Started
- Configuring Digital Commerce Application
- · Setting Up the Embedded UI
- Configuring TurboEngines
- Downloading the Digital Commerce SDK
- Customizing Your Application
- FAQs Tips and Known Issues
- Contact Support

Getting Started

To get started with Digital Commerce, you must complete the following pre-requisites:

- 1. Ensure that you fulfill the minimum system requirements.
- 2. Install Digital Commerce package and all dependent packages in your Salesforce org.
- 3. Configure Products, Price List, and Catalog and ensure you can create a proposal in CPO.
- 4. Ensure you have a User with the System Admin profile.
- 5. Ensure you have access to the Digital Commerce GIT repository (for base template and all associated libraries).
- 6. Ensure you have NPM (Node Package Manager) login credentials for Conga NPM private repository.

System Requirements

Before you install and start using or customizing your Digital Commerce application, you must set up your environment for Angular development using the Angular CLI tool. This topic includes information about minimum system requirements and configuring the environment variables.

Supported Platforms

The following table lists the minimum requirements for installing and using Digital Commerce.

| System Requirement | Minimum Supported Version |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System | Standard Salesforce.com requirements. See Salesforce PDF. |
| Browser | Conga supports the following browsers: • Microsoft Edge Chromium • Google Chrome Conga recommends the latest version of the browser for the best performance. Conga also recommends its customers to use Microsoft Edge Chromium as the browser of choice. A Internet Explorer is not supported. |

Minimum Software Requirements

Before you begin, make sure your development environment includes Node.js® and an npm package manager.



Command prompt must run as administrator for all command line operations.

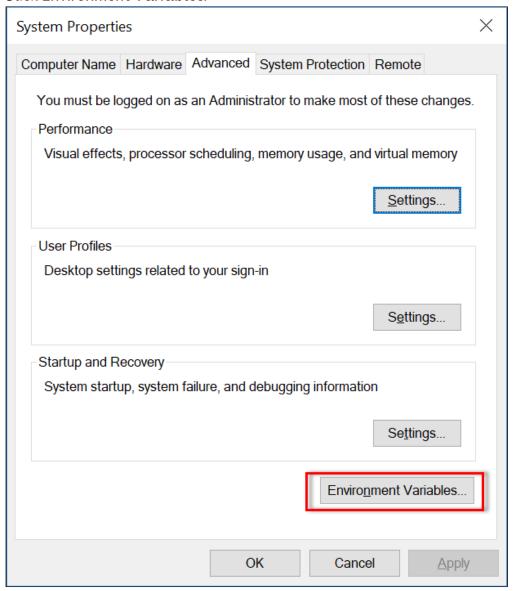
- 1. Node JS v10.16.2 or higher: Install Node JS from the official Node website. For windows, download Windows installer .msi 64-bit.
- 2. Angular CLI v10.1.1 or higher:
 - To check if already installed, use command: ng -v
 - If not installed, use command: npm install -g @angular/cli
- 3. Windows Build Tools. Install python gyp using command: *npm install --global -- production windows-build-tools*
- 4. Visual Studio Code
- 5. JDK / JRE 8 or Higher
- 6. Apache AntTM (v1.10.3 or higher) Install apache-ant-1.10.3-bin.zip or higher

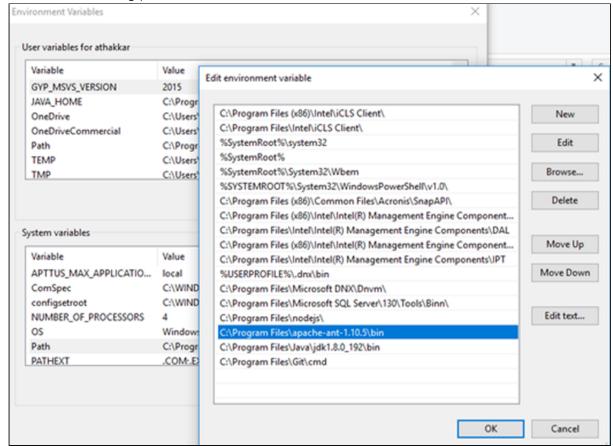
Environment Variables

When NodeJs, JDK/JRE, and ANT are installed, it is necessary that they are accessible globally using the command prompt. Sometimes the environment variables are not configured and you may see errors stating 'node'/'java'/'ant' is not recognized as an internal or external command. You must configure the environment variables on your local system.

To configure environment variables

- 1. Go to This PC > System Properties > Advanced System Settings.
- 2. Click Environment Variables.





3. Add the necessary paths into the User Variable.

Logging Into Your Salesforce Org

Before you log in, make sure you meet the following criteria.

- · All required packages are installed.
- · You have administrative privileges.
- · You have login credentials provided by Conga.

To log into the application

1. Go to http://www.salesforce.com.

Or

If your organization is using a sandbox or test environment (for example, if you are doing user acceptance testing), go to http://test.salesforce.com instead.

- 2. In the toolbar at the top of the page, click Login. The login page opens.
- 3. Enter your User Name and Password, and click Log in to Salesforce.

You have successfully logged into the application.

Setting Up Master Data

In order for your storefront to display products and pricing associated with it. You must set up master data in CPQ.

- · Product Define Standalone, Bundle, and Option products.
- · Pricing Define Simple Pricing, Price Rulesets, Price Matrix (Attributes / Quantity).

For details, refer to the Product Management and Pricing sections in the CPQ Guide.

Installing Digital Commerce Package

Multiple packages must be installed to implement a complete Digital Commerce solution. Packages for Digital Commerce must be installed in the order indicated in the table in this section. You begin with the base packages and then install the integration packages that enable the various products to function together.



Caution

It is recommended to download and install the required packages in a Salesforce sandbox org **before** installing them in your production environment. For information on installing and upgrading in a sandbox, please contact the Support team before you install any packages.

Install the packages in the following order.

| Order | Package | Install Center tab to access the package | Required? |
|-------|--------------------------------------------------------------------------|------------------------------------------|-----------|
| 1 | Conga Contract Lifecycle Management | Contract Management | Y |
| 2 | Conga Partner Commerce (Required only if you are using Partner Commerce) | CPQ | Y |
| 3 | Conga Digital Commerce | CPQ | Υ |
| 4 | Conga Quote Management | CPQ | Υ |

| Order | Package | Install Center tab to access the package | Required? |
|-------|---------------------------------------------------------------------------------|------------------------------------------|-----------|
| 5 | Conga Base Library | Contract Management | Y |
| 6 | Conga Configuration & Pricing | CPQ | Y |
| 7 | Conga Quote Configuration Integration | Integrations | Y |
| 8 | Conga Quote Asset Integration | CPQ | Y |
| 9 | Conga CPQ Setup | CPQ | Y |
| 10 | Conga CPQ API | CPQ | Y |
| 11 | Conga Promotions | CPQ | Y |
| 12 | Conga Order Management (Required only if Partner Commerce package is installed) | CPQ | Υ |
| 13 | Conga Billing (Required only if Cybersource Payment package is installed) | Billing | Y |

A

You must have Conga-provided login credentials to the Community Portal to be able to download packages.

To install the Digital Commerce managed packages

- 1. Go to the Resources > Install Center tab on the Conga Community Portal.
- 2. In My Packages navigation link, click CPQ and scroll down to Conga Digital

 Commerce, from the VERSION drop-down, select the version that you want to install.
- 3. Click Install Version.
- 4. Select the environment in which you want to install the packages.
 - To install the packages in your production environment, click **Install in Production**.

- OR -

To install the packages in your sandbox, click Install in Sandbox.

- 5. In the Salesforce login screen, enter your login credentials and click Log In.
- 6. On the Upgrade page, enter the password provided by Conga.
- 7. Select the profile for which you want to install the package. Conga recommends that you select Install for All Users.
- 8. If you want to Install for Specific Profiles, you must define the access level for all profiles. Select from one of the following options.
 - · No Access This is the default setting. Apply this access level to disable all object permissions.
 - Full Access Apply this access level to assign users permissions to Read, Create, Edit, Delete, View All, and Modify All for all objects in the Approvals package.
 - · Apply other access levels to assign users permissions to Read, Create, Edit, Delete, View All, and Modify All for specific objects in the Approvals package.
 - 🛈 If permission is not enabled for a profile, you can apply Conga-provided Apttus Ecommerce Permission Set to enhance the access levels of the user profile. To assign a permission set, select it from the **Available** Permission Sets box and click Add. To remove a permission set assignment, select it from the Enabled Permission Sets box and click Remove. For more information, see Conga Digital Commerce Permission Set.
- 9. Click Set.
- 10. Click Upgrade.

A message is displayed indicating the installation is underway. Once installed, repeat this procedure for each of the packages.



Important

Ensure that at least CPQ and Digital Commerce package licenses are assigned to an admin user, community user, and guest user.

Digital Commerce Package Objects

Digital Commerce is comprised of multiple packages as mentioned in the installation section and this section lists out the objects inside the package.

| Object Name | Purpose of the Object |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storefront | Represents the storefront details. |
| Storefront Banner | Represents the storefront banner details. |
| Api Cache | Stores record information such as Line Item Ids and Attribute metadata for quick loading thus improving performance. When changes are made in the metadata of an object you are using, you should always clean the Api Cache objects. |

Upgrading Digital Commerce

This section covers all the tasks required for upgrading Digital Commerce to the latest version from the previous two releases.

- i) If you do not have Digital Commerce installed, you can contact the Support Team to request an installation link, then perform the standard installation as described in Installing Digital Commerce Package.
 - · Preparing for Upgrade
 - Upgrading Digital Commerce from Winter '20 to Spring '21
 - Upgrading Digital Commerce from Summer '20 Patch 1 to Spring '21
 - Performing the Post Upgrade Tasks

Preparing for Upgrade

Before you upgrade to Digital Commerce, you must ensure the following:

- You go through Digital Commerce Features by Release to know about the new features, enhancements, and deprecated features in Digital Commerce since your existing release. After you upgrade Digital Commerce, you cannot roll back to any previous release.
- You have supported platforms and system requirements.
- You have access to the **Install Center** on the Conga Community Portal for Digital Commerce managed package and dependent packages.
- You must have access to the npm-release repository to upgrade Digital Commerce SDK.
- · You have administrator privileges to your Salesforce org.

• You need not back up your configurations. All configurations you performed since you installed your existing release will remain intact after the upgrade.

Upgrading Digital Commerce from Winter '20 to Spring '21

This section describes step-by-step instructions to upgrade your Digital Commerce application and SDK from Winter '20 to Spring '21.

To upgrade Digital Commerce application

- 1. Go to Setup > Installed Packages.
- 2. Refer to the following table to ensure that your Salesforce org has the Winter '20 packages installed and you have the Spring '21 packages and dependent packages to upgrade. These packages are required to utilize the new features and enhancements of Spring '21.

| Package Names | Winter '20 Version Name Version Number | Spring '21 Version Name Version Number |
|--------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------|
| Conga Contract Lifecycle Management | 11.2.0582 11.582 | 12.0.0605 12.605 |
| Conga Partner Commerce (Required only if you are using Partner Commerce) | 1.0.0000 1.0 | 1.0.0000 1.0 |
| Conga Digital Commerce | 4.2.106 4.106 Winter '20 | 5.0.131 5.131 Spring '21 |
| Conga Digital Commerce SDK | 2003.0.90 (2003) | 2101.0.102 (2101) |
| Conga Quote Management | 10.2.0227 10.227 | 11.0.0242 11.242 |

| Package Names | Winter '20 | Spring '21 |
|-------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|
| | Version Name Version Number | Version Name Version Number |
| Conga Base Library (Pre-requisite for Installing Conga Configuration & Pricing) | 1.2.123 1.123 | 2.0.150 2.150 |
| Conga Configuration & Pricing | 12.2.1839 12.1839 | 13.0.1882 13.1882 |
| Conga Quote Configuration Integration | 12.2.0344 12.344 | 13.0.0354 13.354 |
| Conga CPQ Setup | 12.2.83 12.83 | 13.0.97 13.97 |
| Conga CPQ API | 12.2.0111 12.111 | 13.0.0120 13.120 |
| Conga Promotions (Required if you are using Promotions) | 1.0.0000 1.0 | 1.0.0000 1.0 |
| Conga Quote -Asset Integration (Required if you are using Assets Based Ordering) | 6.5.0014 6.14 | 6.5.0014 6.14 |
| Conga Order Management (Required only if Partner Commerce package is installed) | 1.0.0000 1.0 | 1.0.0000 1.0 |
| Conga Billing | 6.3.251 6.251 | 7.1.262 7.262 |

3. Perform the upgrade. The upgrade procedure is the same as the installation procedure. Install the required managed package in the same order as mentioned in

the table above. For detailed information on installing managed packages, see Installing Digital Commerce Package.

4. After the upgrade is complete, perform the post-upgrade tasks.

To upgrade Digital Commerce SDK

Refer to the SDK Guide, and go to **Upgrade Information > Upgrading the Digital Commerce Template from Winter '20 to Spring '21**. Perform the following tasks:

- 1. Update the libraries
- 2. Update environment file with pricing flag

Upgrading Digital Commerce from Summer '20 Patch 1 to Spring '21

This section describes step-by-step instructions to upgrade your Digital Commerce application and SDK from Summer '20 Patch 1 to Spring '21.

To upgrade Digital Commerce application

- 1. Go to Setup > Installed Packages.
- 2. Refer to the following table to ensure that your Salesforce org has the Summer '20 Patch 1 packages installed and you have the Spring '21 packages and dependent packages to upgrade. These packages are required to utilize the new features and enhancements of Spring '21.

| Summer '20 Patch 1 Package Names | Summer '20 Patch 1 Version Name Version Number | Spring '21 Package Names | Spring '21 Version Name Version Number |
|-------------------------------------|--------------------------------------------------------------|----------------------------------------|--------------------------------------------|
| Apttus Contract Management | 11.1.0547 11.547 | Conga Contract Lifecycle Management | 12.0.0605 12.605 |

| Summer '20 Patch 1 Package Names | Summer '20 Patch 1 Version Name Version Number | Spring '21 Package Names | Spring '21 Version Name Version Number |
|------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------|
| Apttus Partner Commerce (Required only if you are using Partner Commerce) | 1.0.0000 1.0 | Conga Partner Commerce (Required only if you are using Partner Commerce) | 1.0.0000 1.0 |
| Apttus E-Commerce | 4.1.85.2 4.85.2 Summer '20 Patch 1 | Conga Digital Commerce | 5.0.131 5.131 Spring '21 |
| Apttus Digital Commerce SDK | 2002.1.3 (2002) | Conga Digital Commerce SDK | 2101.0.102 (2101) |
| Apttus Proposal Management | 10.1.0221 10.221 | Conga Quote Management | 11.0.0242 11.242 |
| Apttus Base Library (Pre-requisite for Installing Apttus Configuration & Pricing) | 1.1.93 1.93 | Conga Base Library (Pre-requisite for Installing Conga Configuration & Pricing) | 2.0.150 2.150 |
| Apttus Configuration & Pricing | 12.1.1787.6 12.1787.6 | Conga Configuration & Pricing | 13.0.1882 13.1882 |
| Apttus Quote/Proposal- Configuration Integration | 12.0.0332 12.332 | Conga Quote Configuration Integration | 13.0.0354 13.354 |
| Apttus CPQ Admin | 12.1.61 12.61 | Conga CPQ Setup | 13.0.97 13.97 |
| Apttus CPQ API | 12.1.0104 12.104 | Conga CPQ API | 13.0.0120 13.120 |

| Summer '20 Patch 1 Package Names | Summer '20 Patch 1 Version Name Version Number | Spring '21 Package Names | Spring '21 Version Name Version Number |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------|
| Apttus Promotion Management (Required if you are using Promotions) | 1.0.0000 1.0 | Conga Promotions (Required if you are using Promotions) | 1.0.0000 1.0 |
| Apttus Quote/Proposal- Asset Integration (Required if you are using Assets Based Ordering) | 6.5.0014 6.14 | Conga Quote -Asset Integration (Required if you are using Assets Based Ordering) | 6.5.0014 6.14 |
| Apttus Order Management (Required only if Partner Commerce package is installed) | 1.0.0000 1.0 | Conga Order Management (Required only if Partner Commerce package is installed) | 1.0.0000 1.0 |
| Apttus Billing Management | 6.2.238.1 6.238.1 | Conga Billing | 7.1.262 7.262 |

- 3. Perform the upgrade. The upgrade procedure is the same as the installation procedure. Install the required managed package in the same order as mentioned in the table above. For detailed information on installing managed packages, see Installing Digital Commerce Package.
- 4. After the upgrade is complete, perform the post-upgrade tasks.

To upgrade Digital Commerce SDK

Refer to the SDK Guide, and go to **Upgrade Information > Upgrading the Digital Commerce Template from Summer '20 Patch 1 to Spring '21**. Perform the following tasks:

- 1. Update the Libraries
- 2. Upgrade to Angular 10

- 3. Replace ngx-gallery with ngx-gallery-9
- 4. Upgrade your other dependencies
- 5. Install ladda and core-js
- 6. Move Roboto font SCSS file
- 7. Turn off lvy
- 8. Product detail component updates
- 9. Product detail resolver updates
- 10. Flag Required for Pricing Mode

Performing the Post Upgrade Tasks

After you upgrade to this Digital Commerce release, consider the following options and requirements:

- Managing Permissions for Secure Guest User Access to Storefront
- · All upgrade scenarios must work the same way as the previous release.
 - · Layout changes: Validate layout changes.
 - RemoteAPIcalls: All API calls must be functional.
- Changing Collaboration Request Type

The upgrade procedure above is tested against basic setup and not custom code or trigger.

Configuring Digital Commerce Application

This topic covers step by step instructions for configuring the Digital Commerce application in your Salesforce Org.

- · Enabling Communities
- · Creating Region Field
- Setting Up Communities
- Registering a Salesforce Sites Domain
- Creating Sharing Rules For User And Storefront
- Configuring Remote Site Settings for Community URL
- Configuring Custom Settings
- Creating Community Users
- · Conga Digital Commerce Permission Set
- Enabling State and Country Picklists
- · Changing the Collaboration Request Type

- Adding a Storefront Record
 - Adding Storefront Promotional Banners
- · Managing Permissions for Secure Guest User Access to Storefront
- · Enabling API Filters
- · Payment Integration with Cybersource Payment
 - · Creating a Cybersource Account with the Secure Acceptance Method
 - · Configuring the Payment Form
 - Creating Profiles in Custom Settings
 - · Defining Custom Labels
- Tax Integration with Avalara Tax Engine
 - Setting Up Tax Integration
- Setting Up Multi-Language Using Translations
 - · Setting Up Translations using SDK
 - Setting Up Translations Using Salesforce
 - Setting Up Translations using Translation Workbench
 - Adding a New Locale
- Setting Email Notification Template for Checkout
- · Creating Lookup Field on Account for the Price List
- · Digital Commerce Application Caching

Enabling Communities

Enabling Communities is the first step to creating communities.

To enable community

- 1. Go to **Setup > Customize > Communities > Communities Settings** and select **Enable communities**.
- 2. Select a domain name for your communities, and click **Check Availability** to see if the domain name is available.
- 3. If you see a success message, click **Save**.

The Communities page is refreshed and displays All Communities section.

Creating Region Field

Perform the following steps to create a Region picklist field:

- Go to Setup, in the Quick Find box, search for Users, and select Fields option under the Users.
- 2. Go to the User Custom Fields section and click New.
- 3. Select Picklist as Data Type and click Next.
- 4. Enter Region as a Field Lable.
- 5. Select **Enter values, with each value separated by a new line** option under *Values,* and add picklist values for the region and click **Next**.
- 6. Mark the profiles as **Visible** to which you want to grant edit access to this field via field-level security and click **Next**.
- 7. Click Save.

Setting Up Communities

The Digital Commerce platform leverages a Salesforce Community to provide authentication and hosting features for guest users. After the Digital Commerce package is deployed, the next step is to create a Salesforce Community. At a minimum, you just need the community URL. However, if you intend to support guest users, you will need to enable that within the community settings. After deployment, the angular library will provide a Visualforce page that you can set as the default page for all page settings within the community. For example home, login, forgot password, change password, and more). Being that it is a single-page application that is designed to handle all incoming requests.

Creating Communities in your Org

The default storefront for E-commerce is created with the Digital Commerce package. You need to create a community for E-commerce.

You can create communities using a wizard. This wizard helps you select community templates that suit your business requirement.

To create a community

- Go to Setup > Customize > Communities > All Communities and click New Community.
- 2. Select from one of the Standard Community templates. For example, Salesforce Tabs + Visualforce.
- 3. Click Get Started.
- 4. Type a community Name. URL displays the domain name of your community. In Optional, type a suffix for your community and click Create. For example, Name = E-Commerce or Partner Commerce, Optional = ecom or pcom.

Your community is created.

Creating Sites

Sites enable you to create your Digital Commerce websites that are directly integrated with your Salesforce org—without requiring users to log in with a username and password. To create sites, refer to Create Sites for detailed information.

Activating the Community

After you set up a community, you must activate the community.

To activate a community

- 1. Go to Setup > Customize > Communities and click All Communities.
- 2. Click Workspaces and under My Workspaces click Administration.
- 3. From the Settings page, click Activate Community.

Your community space is now activated.

Setting Up the Default Page

After the community is created and activated, you need to set up Default Page for your community.

(i) After deployment, the angular library will provide a Visualforce page that you can set as the default page for all page settings within the community.

To set up a default page

- 1. Go to Setup > Customize > Communities and click All Communities.
- 2. Click Workspaces and under My Workspaces click Administration.
- 3. Click the Pages option.
- 4. From the *Community Home* drop-down, select **Visualforce Page**.
- 5. Search and select **ECommerce** for your eCommerce template and click **Save**.

Configuring Sharing Settings

Perform the following steps to configure the **Sharing Setting** for **Default External Access**:

- 1. Go to **Setup**, in the Quick Find Box, search and select **Sharing Settings**.
- 2. Click Edit.
- 3. Compare the **Default External Access** with **Default Internal Access** and update the Default External Access with the same option selected as Default Internal Access.
- 4. Click Save.

Granting User Access to Community via Profiles

You can enable users to access the community through profiles based on the level of access you want to grant. Ensure that you provide access to at least an admin user, community user (e-commerce), and guest user.

To enable users to access a community

- 1. Go to Setup > Customize > Communities and click All Communities.
- 2. Click **Workspaces** and under My Workspaces, click **Administration**, and select **Members**.
- 3. Under the *Select Profiles* section, from the **Available Profiles** column, select respective profiles and add them to the **Selected Profiles** column.
- 4. Under the *Select Permission Sets* section, from the **Available Permission Sets** column, select respective permission sets and add them to the **Selected Permission Sets** column.
- 5. Click Save.

Allowing External Users to Self-Register

Perform the following steps to allow the external user to self-register:

- 1. Go to Setup > Customize > Communities and click All Communities.
- 2. Click **Workspaces** and under My Workspaces, click **Administration**, and select **Login & Registration**.
- 3. Under the *Registration Page Configuration* section, select **Allow external users to** self-register.
- 4. Click Save.

Publishing Communities

Perform the following steps to publish the community:

- 1. Go to Setup > Customize > Communities and click All Communities.
- 2. Click Workspaces and under My Workspaces, click Builder.
- 3. Click Publish.

Setting Up Guest Users

You can set up guest users for your community. The concept of guest users is simply hiding access to certain pages.

To set up a guest user

- 1. Go to Setup > Customize > Communities and click All Communities.
- 2. Click Workspaces and under My Workspaces, click Administration.
- 3. Select **Pages**, select the Force.com section. This section takes you to the underlying site record for your Salesforce community.
- 4. Under the Site Visualforce Pages section, ensure the pages are listed for the guest user to access. The pages that are not listed cannot be accessed by a guest user.
- 5. Once done, click **Public Access Settings** where you can see the guest user profile for our storefront. This displays what a guest user can access and manage object and field-level permissions.
- 6. Click Save.

Registering a Salesforce Sites Domain

Your company's Salesforce Sites domain is used for all the sites that you create. You must register your company's Salesforce site domain to create public websites and applications that are directly integrated with your Salesforce.com organization—without requiring users to log in with a username and password. Your Salesforce site domain must be unique and must consist of only alphanumeric characters. Salesforce.com recommends using your company's name or a variation of your company's name, such as 'mycompanyportal.'



You cannot modify your Salesforce site domain name after the registration process.

To register your Salesforce Sites domain

- 1. Go to **Setup >** in the Quick Find Box, search and select **Sites**.
- 2. Enter a unique name for your Salesforce Sites domain. A Salesforce Sites domain name can contain only alphanumeric characters and hyphens and must be unique in your organization. It must begin with a letter, not include spaces, not end in a hyphen, and not contain underscores or periods.



A You can't modify your Salesforce Sites domain name after you have registered it.

- 3. Click Check Availability to confirm that the domain name you entered is unique. If it isn't unique, you are prompted to change it.
- 4. Read and accept the Sites Terms of Use by selecting the checkbox.
- 5. Click Register My Salesforce Site Domain.

Creating Sharing Rules For User And Storefront

Perform the following steps to assign permission sets:

- 1. Go to **Setup** > in the *Quick Find* box, search and select the **Sites**.
- 2. Click the respective **Site Label**. For example, E-Commerce or Partner Commerce.
- 3. Click Public Access Settings > View Users.
- 4. Click the e-commerce site user. For example, Site Guest User, E-Commerce/Partner Commerce.
- 5. Under the *Permission Set Assignments* section, click **Edit Assignments**.
- 6. From the Available Permission Sets column, select respective permission sets and add them to the **Enabled Permission Sets** column.
- 7. Click Save.

Perform the following steps to create a sharing rules storefront:

- 1. Go to Setup > in the Quick Find box, search and select the Sharing Settings.
- 2. Go to the **Storefront Sharing Rules** section and click **New**.
- 3. In Step 1, enter the **Label** for the rule name.
- 4. In Step 2, select **Guest user access, based on criteria** option.
- 5. Select the respective Field, Operator, and Value to set the criteria. For example, Field: Storefront Name, Operator: Contains, Value: E-Commerce or Partner Commerce.
- 6. Click Save.

Perform the following steps to create the user of a sharing rule:

You must use the Region field to create sharing rules for users.

- 1. Go to Setup > in the Quick Find box, search and select the Sharing Settings.
- 2. Go to the User Sharing Rules section and click New.
- 3. In Step 1, enter the **Label** for the rule name.
- 4. In Step 2, select Guest user access, based on criteria option.
- 5. Select the respective Field, Operator, and Value to set the criteria. For example, Field: Region, Operator: equals, Value: North Region.
- 6. Click Save.

Configuring Remote Site Settings for Community **URL**

Perform the following steps to configure Remote Site Settings for your Community URL:

- 1. Go to **Setup** > in the *Quick Find* box, search and select the **Remote Site Settings**.
- 2. Click New Remote Site.
- 3. Enter a descriptive term for the *Remote Site Name*.
- 4. Enter the URL for the remote site.
 - Go to the Sites to get the Site URL. For example, http:// commercesite.test.force.com
- 5. Click Save.

Configuring Custom Settings

Perform the following steps to configure Config System Properties:

- 1. Go to **Setup** > in the *Quick Find Box*, search and select **Custom Settings**.
- 2. Click Config System Properties > Manage.
- 3. Click System Properties > Edit.
- 4. Enter the Instance Url. For example, https://commercedomainame.my.salesforce.com
- 5. Click Save.

Follow above all steps to configure Instance Url for Comply System Properties.

Perform the following steps to configure Config Custom Classes:

- 1. Go to **Setup >** in the *Quick Find Box*, search and select **Custom Settings**.
- 2. Click Config Custom Classes > Manage.

- 3. Click System Properties > Edit.
- 4. In the *Tax Callback Class*, enter **Apttus_Webstore.APTS_TaxCallBack**.
- 5. Click Save.

Creating Community Users

You can create community users and enable them to access your community.

To create community users

- 1. Add a user to an account as a contact record and enable the contact record as a **Customer User** or **Partner User**, depending on your business relationship.
- 2. Refer to Create Community Users for detailed information.

Conga Digital Commerce Permission Set

The Digital Commerce package comes with basic permission set for providing the necessary access to users. The permission set is named 'Apttus Ecommerce' and should be assigned to users to access the digital commerce storefront. If you would like to make any changes to the permissions, you may clone the permission set and make any changes necessary.

Using the managed permission set may prevent a portal user from logging in to Digital Commerce. This occurs because the managed permission set does not have API Enabled Permission by default. You must create an unmanaged permission set and enable API permission.

To enable API permission

- 1. Clone Apttus Ecommerce permission set and name it Apttus Ecommerce Custom.
- 2. Go to **Setup > Administration Setup > Manage Users > Permission Sets** and select the permission set. In this case, Apttus Ecommerce and Apttus Ecommerce Custom.
- 3. Go to System Permissions and select to check API Enabled.
- 4. Click Save.

Every time you assign Apttus Ecommerce permission set to a user, you MUST assign Apttus Ecommerce Custom permission set as well.



You must provide CRUD permission to the API Cache object. Organization Wide Default (OWD) access for API Cache Object must be Public Read/Write.

For Proposal and Checkout APIs to work seamlessly, you must assign appropriate user permissions to custom fields that you may have added to an object.

Enabling State and Country Picklists

Your Digital Commerce site may require State and Country picklists. You must configure these picklists on the org level which enables the State and Country fields to display the picklists on the Contact object.

To enable state and country picklists

- 1. Go to Setup, in the Quick Find box, search for State and Country/Territory Picklists, and click State and Country/Territory Picklists. The State and Country/Territory Picklists setup page appears.
- 2. On the State and Country/Territory Picklists setup page, follow the step-by-step instructions to enable the State and Country picklists.

For complete information, refer to Enable and Disable State and Country Picklists in Salesforce documentation.

Changing the Collaboration Request Type

From the Spring '21 release, Digital Commerce uses the Collaboration header for creating collaboration request via API and SDK integration to create quotes and orders.

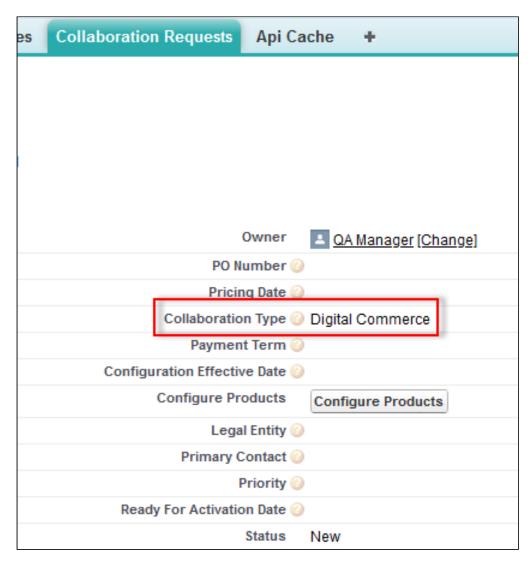
With API integration, the [POST] /collaborationrequests API is used to create collaboration request. Using [POST] /collaborationrequests/:recordId/carts, a cart is generated based on the collaboration request. This method when called copies the header fields from the collaboration request to the cart.

With SDK integration, a cart is created from the UI. You can add products to the cart and then checkout.



If you have added custom fields to the Collaboration object, you must assign appropriate user permissions to the custom fields.

With this, you must also select Digital Commerce from the Collaboration Type field in your Salesforce org.

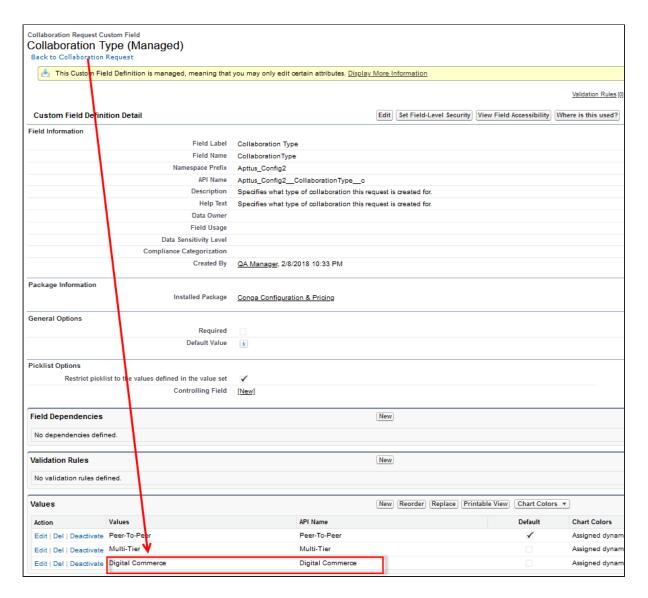


If Digital Commerce is not available as a picklist value in the Collaboration Type field, you must add it manually.

To add the picklist value:

- 1. Go to the Product Configuration object and from the Custom Fields & Relationships section, click the Collaboration Request field.
- 2. Scroll down to the Lookup Options related list and from the Related to field, click the Collaboration Request link. The Collaboration Request custom object appears.
- 3. From the Custom Fields & Relationships section, click the Collaboration Type field.





Adding a Storefront Record

The Store object is created during the deployment process. The Store object is the only supplementary object to the CPQ code. You must create a store record. After installing the managed package, there is no way for you can access the Storefront object. You must add a Storefront tab to access the Storefront object.

Apart from the underlying catalog, the Digital Commerce package comes with a store object and tab to map a storefront to a catalog. If you are using an MDO org, there may already be a 'store' object installed. This object is deprecated in favor of the 'Storefront' object that comes with the Digital Commerce package.

After setting up your catalog, the next step is to create a 'Storefront' record. The storefront object is very basic and contains only a couple of fields to map a storefront to a price list and logo for the guest user. The price list should look up to the price list you want the guest user to access and the logo should be an id or a URL of the logo attachment for the store. The storefront record also has a 'banner' related list that can be used to set up banners for the jumbotron component in the reference template. Remember the name of the storefront you created. This will be used in a later step to associate with a storefront codebase.

To add a storefront tab

- 1. Go to Setup > Create > Tabs and click New.
- 2. From **Object**, select Storefront.
- 3. From Tab Style, select a style and click Next.
- 4. Click Next and click Save.

The Storefronts tab is created. You can now create a Storefront record.

To add a storefront record

- 1. Click All tabs and click Storefronts.
- 2. Click New.
- 3. For **Storefront Name**, type a mandatory name for your storefront.
- 4. For **Default Locale**, select a locale for the users in the storefront.
- 5. For **Default Price List**, select a price list. This is the default price list used for guest users in the storefront.



A There are three price list parameters that can be set in the application:

- Using API headers.
- · Logged in User must be associated with Contact and Account object that has a price list.
- · Storefront account and price list.
- For Default Account for Guest Users, type an account name as the default account for orders placed by guest users from E-Commerce.
- 7. For Translation URL, type the URL to retrieve the translation custom labels for the storefront.
- 8. For Payment Callback URL, type the payment callback URL.
- 9. For Guest Username and Guest Password2, enter a username and password. The user details entered must have the alias as guest.
- 10. For Configuration Layout, select a layout of your choice. Native is the default layout, meaning if selected, the product details page displays the default Digital Commerce configuration layout. You can select Embedded to provide the same Digital

Commerce experience similar to CPQ.

- (i) If you do not see the fields above, add them by editing the layout.
- 11. To enable Asset Based Ordering capabilities for your storefront, select **Enable ABO**.
- 12. If you enabled Asset Based Ordering, use the **Asset Actions** field to enable them for your storefront.
- 13. To enable request quote capabilities for the storefront, select **Enable Request Quote**.
- 14. To enable tax integration, select **Enable Tax Calculations**.
- 15. To set the purpose of the storefront, select the relevant **Channel Type**.
- 16. To enable Promotion capabilities for your storefront, select **Enable Promotions**.
- 17. For **Logo**, use Notes and Attachments to attach an image file. Copy and paste the image ID in the Logo field to reference the image. You can also type a URL to reference an externally hosted logo image.
- 18. For **Enable API Filters**, by default, this flag is set to True. To override global filters, you must set this flag to False. For more information, see Enabling API Filters.
- 19. Click Save.

Adding Storefront Promotional Banners

Storefront Banners are custom objects that are deployed with the managed package. You can add as many banners as you want.

To create storefront banners

- 1. In the Storefront record, from the Storefront Banners related list, click **New Storefront Banner**.
- 2. The Storefront field is auto-populated.
- 3. Enter the following information:

| Field | Description |
|----------|---------------------------------------------|
| Title | Title for the banner. |
| Subtitle | Subtitle or sub heading for the banner. |
| Link | Specify the page that opens, when clicked. |
| Image | This field references a custom id or a URL. |

- 4. From Currency, select a mandatory currency for your storefront banner.
- 5. Click **Save**. The Storefront Banner details page appears.

To add an image to the Storefront Banner

- 1. In the Storefront record, from the Note & Attachments related list, click **New Note**.
- 2. For **Title**, enter a title of the Banner image.
- 3. Click Save.
- 4. Click **Attach File** to attach a banner image and follow the instructions.

Managing Permissions for Secure Guest User Access to Storefront

Salesforce Winter 2020 introduced several security alerts, which add default security to the records that power a storefront and therefore restrict what guest users can access on the storefront.

- An optional sharing setting, Secure guest user record access, is available that affects guest user access in the following ways:
 - Changes the organization-wide default (OWD) external access settings to apply only to community users. By default, guest users have no access to any records used for the storefront.
 - Adds a sharing rule type, **Guest user access, based on criteria**, which can grant only Read access to records, based on criteria you specify.
 - Restricts guest users from being included in public groups.
 - Restricts records from being manually shared with a guest user.
- An optional Communities setting, Reassign new records created by guest users to the
 default owner, is available that restricts a guest user from owning any Object
 records, such as Apttus_Config2__ProductConfiguration__c. This means that, after
 enabling the setting, a guest user can only view or add to a cart created before the
 setting was enabled, and cannot create a cart.
- An optional Communities setting, Let guest users see other members of this
 community, is available that is disabled by default. This setting does not affect any
 storefront functionality.
- The View All Users permission is disabled by default for any new org.

To resolve this, security alerts are *mandatory* since February 2020. The security alerts are opt-in until that date.

If you allow guest users to perform any of the following tasks, we recommend that you install the appropriate patch for your version of Digital Commerce and immediately

complete the following required workaround steps to maintain guest user access on your storefront.

- · Self-register
- · Browse your storefront
- · Add products to a cart
- · Complete checkout

The solution for all versions of Digital Commerce involves creating a dedicated licensed user to act on behalf of the guest users for a storefront. The standard Community guest user can still be used, however, those users cannot perform the actions mentioned above.

To maintain guest user access on your storefront

- 1. Click All tabs and click Storefronts.
- 2. In the Storefront record, enter the Guest Username and Guest Password for the guest user account. These fields are used for all guest users.



- 3. Assign the Digital Commerce permission set to the user you created in Step 2. This grants access to the various objects and fields necessary to perform the actions within the storefront.
- 4. Add a remote site setting with your community URL as the approved domain.
- 5. Create storefront sharing rules to allow the guest user to read the username and password from the storefront object for the guest user.





Important

Create all the above-mentioned sharing rules for both Digital Commerce and Partner Commerce storefronts.

Enabling API Filters

Digital Commerce contains headless APIs, which are used from the SDK and can be used independently too. The Query API accepts JSON input with filters, conditions, fields, lookups, and relationships for an object to fetch records. Implementing Digital Commerce applies global filters by default. You can bypass and override global filters by setting the Enable API Filters flag to False from the Storefront object. By default, this flag is set to True.



Important

Disabling global filters disables all the filters across the application. For using filters of your choice, you must explicitly pass appropriate parameters.

The following global filters are applied:

| API | Version | Condition |
|----------------|---------|----------------------------------------------------------------------------------------------------------|
| carts | All | Ownerld = Current User Id |
| carts | All | Account = Current Account |
| carts | All | PriceListId = Current Price List |
| carts | 3 | BusinessObjectId != null |
| carts | 3 | BusinessObjectType != null |
| products | All | IsActive = true |
| products | All | Has a valid price list item in the current price list (price list item inherits price list item filters) |
| pricelistitems | All | Effective Date == null OR Effective Date <= TODAY |
| pricelistitems | All | Expiration Date == null OR Expiration Date >= TODAY |
| pricelistitems | All | Active = true |
| pricelistitems | All | PriceListId = Current Price List |

| API | Version | Condition |
|----------------|---------|--------------------------------------------------------|
| pricelistitems | All | ListPrice != null |
| quotes | All | Ownerld = Current User Id |
| quotes | All | Account = Current Account |
| quotes | All | Primary_Contact = Current User Contact Id |
| assets | All | AccountId = Current Account |
| categories | All | IsHidden = false |
| categories | All | Hierarchy.Type = 'Offering' OR Hierarchy.Type = 'Both' |
| categories | All | Ancestorid != null OR Primordialid = null |
| categories | All | IsLeaf = No OR ProductCount > 0 |
| orders | All | Ownerld = Current User Id |
| orders | All | SoldToAccountId = Current Account Id |
| orders | All | PrimaryContactId = Current User Contact Id |

Payment Integration with Cybersource Payment

You can use Cybersource Payment Gateway with Digital Commerce to perform payments. This section describes how you can integrate Cybersource Payment with Digital Commerce.



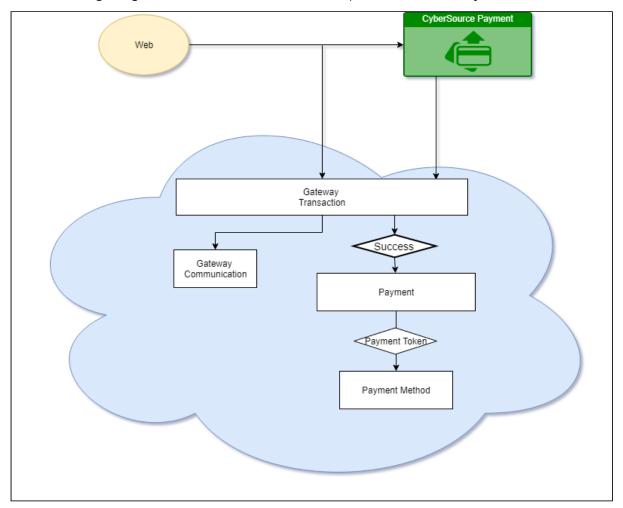
Prerequisite

You must have already installed the CPQ and Billing Management packages. You must have the Apttus eCommerce Cybersource permission set.

The following four Billing objects store record entries that are used by the Cybersource unmanaged package for every transaction.

| Object Name | Purpose |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Payment | When a transaction is successfully completed with a success message, a new entry is made in the Payment object with regards to the order. |
| Payment Method | This object stores the data for saving payment detail for future use. |
| Gateway Transaction | This object creates a new record every time a payment request to Cybersource is sent and updates the status when a response is received. |
| Gateway Communication | This is a child object of Gateway Transaction. This object creates a new entry for each request and response payload. |

The following diagram illustrates the relationship of Salesforce objects:



To implement payment integration using Cybersource

- 1. Download and install the Cybersource unmanaged package from the repository. This package includes all the related objects, labels, classes, and permissions with some rest API resources. Based on these resources the payment integration is executed through classes.
- 2. You must create a Cybersource account with the following two Secure Acceptance profiles.
 - a. Hosted API This is used to display IFrame in your Digital Commerce site.
 - b. Checkout API This is used to perform transactions by using the payment method in a silent way.
 - c. Set up Payment Integration using Cybersource.
- 3. Create profiles in the APTS Cybersource Profile Details custom setting. This custom setting is part of the unmanaged package.
- 4. Define custom labels for the Hosted profile and Checkout/Silent Order Post profile.

Creating a Cybersource Account with the Secure Acceptance Method

To integrate the Cybersource payment gateway, you must create a Cybersource account and create your own profile under a secure acceptance setting.



Prerequisite

You must subscribe for a Cybersource subscription account using the https:// ebc2.cybersource.com/ebc2/registration/external link.

Creating Profiles Under Secure Acceptance Setting

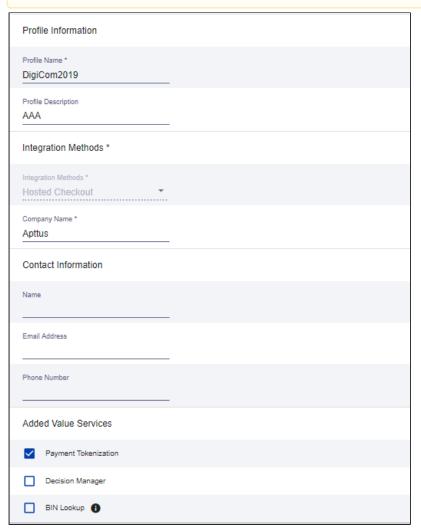
Perform the following steps to create profiles under secure acceptance setting:

- 1. Log in to your Cybersource account using https://ubctest.cybersource.com/ebc2 link.
- 2. From the Dashboard, under Payment Configuration, select Secure Acceptance Setting.
- 3. From the Secure Acceptance Setting page, click New Profile. The Create Profile panel appears.
- 4. Enter the profile name and description, the company name, the integration method used to process notifications and the contact to whom they will be sent, and any

additional services. This information is available in the General Information tab after you create the profile.



The integration method cannot be changed later.



5. Click Submit. The Create Profile panel closes and the Edit Profile page appears.

The profile is created as "Inactive." You can complete profile values to promote it using the steps in Editing Secure Acceptance Profiles at any time.

Editing a Secure Acceptance Profile

You must make changes to an inactive profile, then promote the changes to the active profile.

- 1. On the left navigation pane, click the Payment Configuration icon.
- 2. Click Secure Acceptance Settings. The Secure Acceptance Settings page appears.
- 3. Click the Inactive Profiles tab.

- 4. In the Profile Name column, click the name of the profile you want to edit. The Edit Profile page appears.
 - You can also select an Active profile, and click the **Edit** icon. Business Center automatically takes you to the Inactive version of the profile.
- 5. Click the tab containing the information you want to update and make changes as necessary.

| Tab Name | Description |
|---------------------|---------------------------------------------------------------------------------------|
| General Information | Enter basic information about the name and format of the profile. |
| Payment Settings | Select accepted card types, checkout methods, and reversal preferences. |
| Security | Generate the access key and security key that you need to pass for the transaction. |
| Payment Form | Set up checkout steps, and which fields to include in billing and order review forms. |
| Notifications | Designate where to send transaction data. |
| Customer Response | Customize response and error messages. |
| Branding (Optional) | Add your branding logos, fonts, and colors. |

- 6. When you are done, click Save.
- 7. Click the **Promote Profile** icon to add changes to the Active profile.

Defining Payment Methods

After creating a profile, perform the following steps to configure payment methods.

- 1. From the Edit Profile page, go to the Payment Settings tab.
- 2. Click Add Card Types to add cards of your choice.



If you want to use Electronic Check (eCheck) or Pay Pal method, you must raise a support ticket first with Cybersource. Cybersource implements your requirement, post which eCheck and Pay Pal options are displayed. You can also select account types as per your requirement.

- 3. Select the 3DS1 option under the Payment Authentication 3DS Version section.
- 4. Select both the options (Fails AVS Check and Fails CVN Check) under the Automatic Authorization Reversal section.
- 5. Click the setting icon next to the card type to add supported currencies and required fields. The card setting page appears.



🔔 The default currency is US Dollars (USD). To add more currencies, you must raise a support ticket with Cybersource.

6. Select the options of your choice and click **Submit**.

Creating Access and Security Key

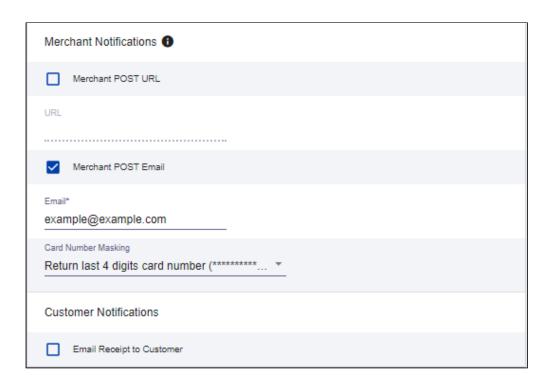
Perform the following steps to create your access key and security key that is needed for transactions:

- 1. From the Edit Profile page, go to the Security tab.
- 2. Click the **Create** icon.
- 3. Enter a **Key Name** and click **Create**.

An access key and security key is generated. You must enter the keys in the APTS_CyberSource_Profile_Details_c Cybersource custom setting.

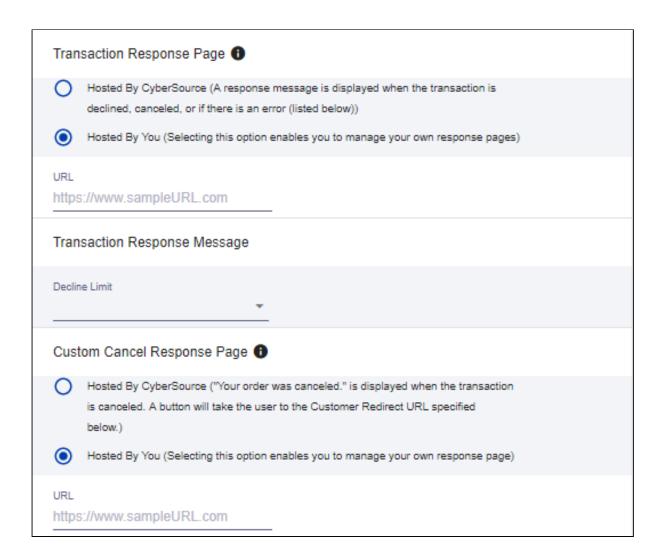
Configuring Transaction Responses

You can configure transaction responses from the Notification tab. You can define whether to receive responses through email or a post on API. Currently, Email notifications are supported.



Configuring Customer Responses

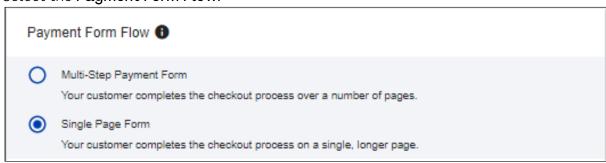
The customer response setting allows you to configure the redirect page after the transaction is completed/canceled.



Configuring the Payment Form

You must configure your CyberSource secure acceptance page from the Payment Form tab.

- 1. From the Edit Profile page, go to the **Payment Form** tab.
- 2. Select the **Payment Form Flow**.



3. Configure payment and checkout page information.

| Purci | hase Information |
|--------------|--------------------------------------------------------------------|
| | Display the total tax amount in each step of the checkout process. |
| Che | ckout Steps 1 |
| | Billing Information |
| | Shipping Information |
| \checkmark | Payment Information |

4. Select the fields to display on the billing page. Select the **Display** checkbox corresponding to each field to display it on the billing page. You can also mark some fields as required by selecting the **Require** checkbox corresponding to that field.



5. Select the fields to display on the eCheck page. Select the **Display** checkbox corresponding to each field to display it on the billing page. You can also mark some



fields as required by selecting the **Require** checkbox corresponding to that field.

6. Select the settings to show on the order review page. You can show the Billing Information, Shipping Information, and Payment Information.



7. Click Save.

Creating Profiles in Custom Settings

After you configure the Cybersource settings, you must create profiles in the APTS CyberSource Profile Details custom settings. The Cybersource unmanaged package includes a Cybersource custom setting named APTS_CyberSource_Profile_Details__c. This custom setting stores the access_Key, Secret_Key, and Profile ID from Payments. You must create two records in the custom settings, one for the hosted profile and another for the checkout profile.

To create a hosted profile in a custom setting

- Go to Setup > Develop > Custom Settings and click Manage for APTS CyberSource Profile Details.
- 2. Click New.
- 3. Enter the Name for the profile. For example System Properties.
- 4. Enter the Access Key that you generated in the Security tab in Cybersource.

- 5. Enter the IFram URL provided by Cybersource during the subscription.
 - For Test Transactions, you must use https:// testsecureacceptance.cybersource.com/embedded/pay
 - For Live Transactions, you must use https://secureacceptance.cybersource.com/embedded/pay or the URL provided by Cybersource.
- 6. Enter the **Merchant ID**. The merchant ID is the same as the Organization ID that you used to create the Cybersource account.
- 7. Enter the **Profile ID**. You will receive the Profile ID when you create a secure acceptance profile.
- 8. In Secret Key1 and Secret Key2, enter the secret keys that you generated in the Security tab in Cybersource.
 - △ Due to the Salesforce limitation of 250 characters, the secret key is divided into two fields. You must manually break the key into two and enter these fields. You must ensure that there are no extra spaces at the beginning or, the end of the secret key.
- 9. If you are using a test environment, select **Is TestEnvironment**.
 - Checking this flag sets the default order amount to \$100 as Cybersource may display an error for amounts exceeding \$100 in test environments.
- 10. Click Save.

To create a checkout profile in a custom setting

- Go to Setup > Develop > Custom Settings and click Manage for APTS CyberSource Profile Details.
- 2. Click New.
- 3. Enter the Name for the profile. For example Silent Checkout Profile.
- 4. Enter the Access Key that you generated in the Security tab in Cybersource.
- 5. Enter the Iframe URL provided by Cybersource during the subscription.
 - For Test Transactions, you must use https:// testsecureacceptance.cybersource.com/silent/embedded/pay
 - For Live Transactions, you must use https://secureacceptance.cybersource.com/silent/embedded/pay or the URL provided by Cybersource.
 - a. Enter the **Merchant ID**. The merchant ID is the same as the Organization ID that you used to create the Cybersource account.
- 6. Enter the **Profile ID**. You will receive the Profile ID when you create a secure acceptance profile.

7. In Secret Keyl and Secret Key2, enter the secret key that you generated in the Security tab in Cybersource.



Due to the Salesforce limitation of 250 characters, the secret key is divided into two fields. You must manually break the key into two and enter in these fields. You must ensure that there are no extra spaces at the beginning or, the end of the secret key.

8. If you are using a test environment, select **Is TestEnvironment**.



Checking this flag sets the default order amount to \$100 as Cybersource may display an error for amounts exceeding \$100 in test environments.

9. Click Save.

To configure the callback URL for Payment Iframe in the custom settings

- 1. Go to Setup > Develop > Custom Settings and click Manage for APTS CyberSource Profile Details.
- 2. Click System Properties.
- 3. Enter the Payment Callback URL, to redirect the customer to the Digital Commerce application after payment is done.
- 4. Click Save.

Defining Custom Labels

The Cybersource unmanaged package comes with two labels where you must enter the custom setting profile you created. These labels use relevant values while performing payment transactions.

To define custom labels

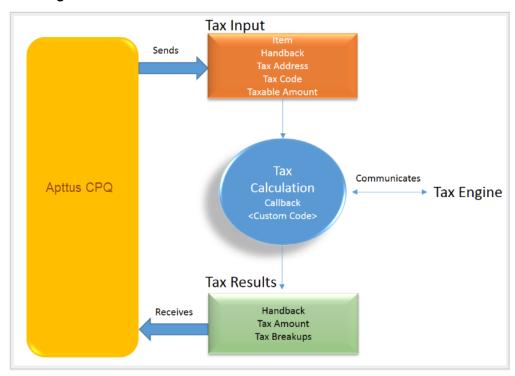
- 1. Go to Setup > Create > Custom Labels and click Edit for cyberSource_Active_CustomSetting.
- 2. Enter a short description.
- 3. In Value, enter the name for the hosted profile you created in the APTS CyberSource Profile Details custom setting. For example System Properties.
- 4. Click **Save**.
- 5. Now to go to Setup > Create > Custom Labels and click Edit for cyberSource_Active_Silent_CustomSetting.

- 6. In **Value**, enter the name for the checkout profile you created in the APTS CyberSource Profile Details custom setting. For example Silent Checkout Profile.
- 7. Click Save.

Tax Integration with Avalara Tax Engine

You can communicate with a Tax Engine of your choice with the help of a Tax Callback class. For this, you should know the Request Fields that are sent to Callback and further to the Tax Engine. The following diagram gives an overview of how information is sent from the Product to the Tax Engine and received back after processing.

Tax Engine



Tax input is a container that holds the following fields:

- Item: Contains an Invoice Line Item or a Credit Memo Line Item.
- Handback: A generic wrapper class that can be used to pass an additional field value. Set the value for this field to *TaxInputRelatedObjects*. This class contains the parent Invoice or Credit Memo based on whether the item contains an Invoice Line Item or a Credit Memo Line Item.
- Tax Address: The address specified as the Shipping Address of the Ship-To account. If there is no Shipping Address mentioned in the Ship-To account, then the Billing Address of the Ship-To account is used.
- Tax Code: This value is taken from the product Price Line Item (PLI).

• Taxable Amount: This is the amount to apply the tax to.

When communicating with a Tax Engine, you must note that:

- The implementation of the Tax Callback must return a TaxResultHandback object in the Handback field of a Tax Result.
- The implementation of the Tax Callback must determine a commit mode by checking if the status of the Invoice is Approved Pending.

You must register a Tax Callback class which is called for tax calculation on invoice generation.

Setting Up Tax Integration



Prerequisite

You must have already installed CPQ packages.

To set up tax integration, you must complete the following tasks:

- Install the tax integration package and define the class in custom settings
- Enable tax calculations
- · Create Tax Code and Tax Certificate
- Set up Tax Calculations
- · Set up Tax Breakups

To set up tax integration with Avalara tax engine

- 1. Download and install Avalara Tax Integration with Ecommerce unmanaged package from the repository.
- 2. Go to Custom Settings and click Manage for Config Custom Classes.
- 3. Click New.
- 4. Enter the **Name** as *System Properties*.
- 5. In Tax Callback Class, enter APTS_APTSTaxCallBack. This class is part of the Avalara Tax Integration with the Ecommerce unmanaged package.
- 6. Click Save.

To enable tax calculations

- 1. Go to the **Storefronts** tab. Choose and click your storefront name to open your storefront record.
- 2. Click Edit and set the Enable Tax Calculations flag to True.
- 3. Click Save.

In Digital Commerce at the time of Quote creation or Order generation tax needs to be calculated for taxable line items or order line items. You must create a Tax Code and a Tax Certificate record.

To create tax code and tax certificate record

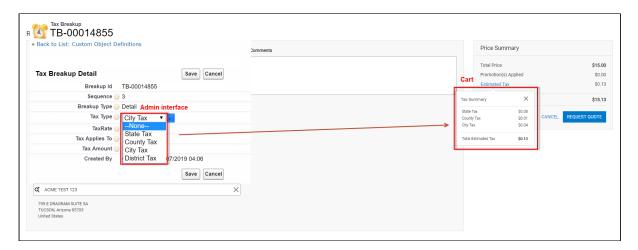
- 1. Go to the Tax Code tab and click New.
- 2. Enter a Name for the tax code.
- 3. In Code, enter the tax code provided by Avalara.
- 4. Enter a meaningful **Description** for the tax code.
- 5. Click **Save**. You can define this code in your price list item.
- 6. Go to the Tax Certificate tab and click New.
- 7. Enter a **Number** for the tax certificate.
- 8. Enter a meaningful **Description** for the tax certificate.
- 9. Select the **Effective Date** and **Expiration Date** for the tax certificate.
- 10. Click Save. You can define the newly created tax certificate in your Account object.

By default, not all products are taxable. To make a product taxable, you must set the **Taxable** flag to *True* and enter the tax code on the Price List Item.

To set up tax calculation

- 1. Go to the **Price List Item** for the line item you want to calculate the tax for.
- 2. Set the Taxable flag to True and enter the Tax Code.
- 3. Click Save.

In Digital Commerce, when you select a product that is taxable and you request a quote, the system calculates the tax and displays it into the cart. The breakup of the tax is defined in Salesforce from the line item level. The percentage of the tax breakup is passed on from Avalara. The mechanism here is that the API picks the account address and passes it to Avalara. Based on the region/address, Avalara passes tax percentage information which is then computed in Salesforce and displayed in the Tax Breakup object. Refer to the image below for the type of tax breakups populated on the Digital Commerce site.

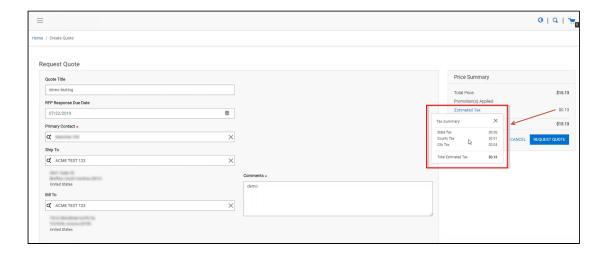


Now when the order is generated, you get order tax breakup for orders and proposal tax break up for proposals. These tax breakups are attached to respective line items.

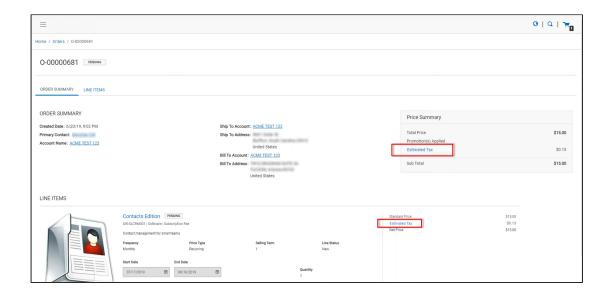
You must ensure that the Account object has a valid Billing and Shipping Address and the Tax certificate is defined.

Use Case:

- 1. From the Product Catalog, select a **Product** and add it to the cart.
- Click Request Quote. The Request Quote page appears.
 Tax for the selected product is calculated and displayed.
- 3. To view the tax break up, click **Estimated Tax**.



4. You can either Place an Order or Request a Quote. If you Request a Quote, you can view the tax summary from My Accounts > Quotes. If you place an order, you can view the tax summary from My Accounts > Orders.



Setting Up Multi-Language Using Translations

You can set up multi-language support for your site. You have the following three ways to achieve this:

- · Translations from the SDK
- · Translations from Salesforce
- · Translations using Translation Workbench

Translation can be set up for the following:

- · Static Labels or text (Page Titles, Header, Footer, Tabs, Descriptions)
- · Field Label translations
- · Data translations (product, category, product attribute group)

The default language is English. You can set a different language from the User Profile.

To set a default language for a user

- 1. Go to Setup > Administration Setup Managed Users and click Users.
- 2. Click Edit next to the User.
- 3. In Locale, select a locale. For example Spanish (Mexico). This is optional.
- 4. In Language, select your preferred language for the user. For example Spanish.
- 5. Click Save.

For every new locale that you add, you must register it from the template. For more information, see Adding a New Locale.

Setting Up Translations using SDK

The managed package consists of a Translator Loader. This Translator loader contains a folder named assets > i18n that consists JSON files used to define translations. By default, only the English language (en_US.json) is packaged with the base template. In order to add more languages, you can clone the English language JSON file and modify it to accommodate your preferred language. In the translator-loader.service.ts file, the translation GET method checks for the translation URL from the Storefront record. Priority is set to check if the Translation URL is defined on the Storefront object. If not, the system checks for the files in the SDK. The system selects the URL from the local JSON files. If both, the Storefront and the SDK, do not have the URL, the system sets the default language to English. Refer to the GET method code snippet. If the translation URL is not present on the Storefront object, the system uses SDK to translate labels, fields, and data.

Setting Up Translations Using Salesforce

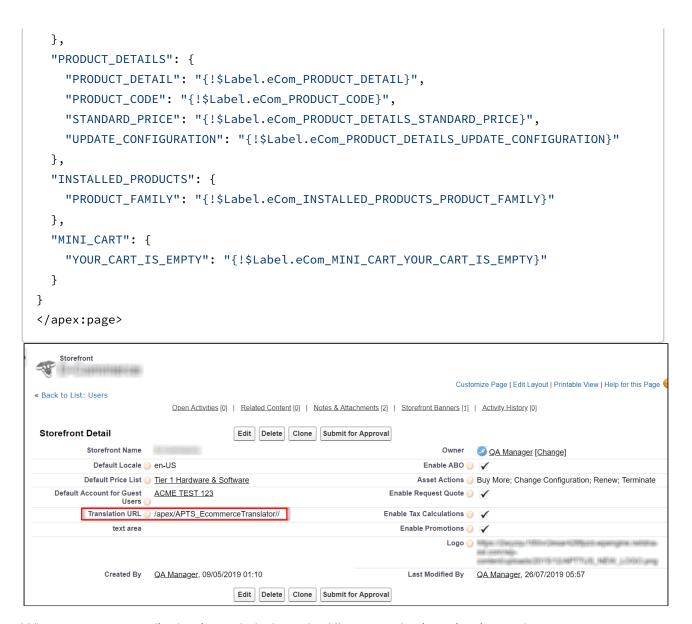
The translation URL must be present on the Storefront record. Go to the **Storefront record > Translation URL = /apex/APTS_EcommerceTranslation**. This URL points to a static page that contains all the translations. See example code snippet.

```
Example Code Snippet for E-Commerce Translation

<apex:page contentType="application/json; charset=utf-8" language="{!
    $CurrentPage.parameters.language}">
```

```
"ERROR": {
    "MIN-OPTIONS": "{!$Label.eCom_MIN_OPTIONS}",
   "CART": {
      "TOO_MANY_ATTEMPTS": "{!$Label.ecom_TOO_MANY_ATTEMPTS}",
     "PRICE_CHANGE": "{!$Label.eCom_PRICE_CHANGE}",
     "PRICE_CHANGE_TOASTR_TITLE": "{!$Label.eCom_PRICE_CHANGE_TOASTR_TITLE}"
   },
   "APPLICATION_ERROR_TOASTR_TITLE": "{!$Label.eCom_APPLICATION_ERROR_TOASTR_TITLE}"
 },
 "SUCCESS": {
   "CART": {
     "ITEM_ADDED_TOASTR_MESSAGE": "{!$Label.eCom_ITEM_ADDED_TOASTR_MESSAGE}",
     "ITEM_ADDED_TOASTR_TITLE": "{!$Label.eCom_ITEM_ADDED_TOASTR_TITLE}"
   }
 },
 "ASSETS": {
    "CHANGECONFIGURATION_SUCCESS": "{!$Label.eCom_Assets_ChangeConfigurationSuccess}",
    "CHANGECONFIGURATION START DATE": "{!
$Label.eCom_Assets_ChangeConfigurationStartDate}",
    "CHANGECONFIGURATION_END_DATE": "{!
$Label.eCom_Assets_ChangeConfigurationEndDate}"
 },
 "MY ACCOUNT": {
   "LAST_LOGIN_DATE": "{!$Label.eCom_LAST_LOGIN_DATE}"
 },
 "BUTTON": {
   "Change Configuration": "{!$Label.eCom_Button_ChangeConfiguration}"
 },
 "PRODUCT_CARD": {
   "INSTALLED_PRODUCT": "{!$Label.eCom_PRODUCT_CARD_INSTALLED_PRODUCT}",
   "STANDARD_PRICE": "{!$Label.eCom_PRODUCT_CARD_STANDARD_PRICE}"
 },
 "PAGINATION": {
    "FIRST": "{!$Label.eCom_PAGINATION_FIRST}"
 },
 "COMMON": {
    "ORDERS": "{!$Label.eCom_COMMON_ORDERS}",
   "USERNAME": "{!$Label.eCom_COMMON_USERNAME}",
   "QUANTITY": "{!$Label.eCom_COMMON_QUANTITY}",
   "CHANGE_CONFIGURATION": "{!$Label.eCom_Common_ChangeConfiguration}",
   "ADD_TO_CART": "{!$Label.eCom_Add_to_Cart}"
 "CONSTRAINT_POPOVER": {
```

```
"PRODUCTS_INCLUDED_EXCLUDED_HEADING": "{!
$Label.eCom_PRODUCTS_INCLUDED_EXCLUDED_HEADING}"
 },
 "CART": {
   "PAYMENT": {
      "PAYMENT_TITLE": "{!$Label.eCom_CART_PAYMENT_TITLE}"
   },
   "CART_SUMMARY": {
      "QUANTITY": "{!$Label.eCom_CART_SUMMARY_QUANTITY}"
   },
   "CHECKOUT": "{!$Label.eCom_CHECKOUT}",
    "BILLING_AND_SHIPPING_INFORMATION": "{!
$Label.eCom_BILLING_AND_SHIPPING_INFORMATION}"
 },
 "MANAGE CART": {
    "CART_SUMMARY": {
     "CART_SUMMARY_TITLE": "{!$Label.eCom_Cart_Summary_Title}",
     "SUB_TOTAL": "{!$Label.eCom_Sub_Total}"
   },
   "CART_TABLE": {
     "ITEMS_IN_YOURCART": "{!$Label.eCom_ITEMS_IN_YOUR_CART}"
   }
 },
 "FOOTER": {
    "PRODUCTS": "{!$Label.eCom_FOOTER_PRODUCTS}"
 },
 "HEADER": {
    "SUBMIT": "{!$Label.eCom_HEADER_SUBMIT}",
   "ENTER_YOUR_SEARCH_TERM": "{!$Label.eCom_ENTER_YOUR_SEARCH_TERM}",
   "LAST_LOGIN": "{!$Label.eCom_HEADER_LAST_LOGIN}",
   "HOME": "{!$Label.eCom_HEADER_HOME}",
   "LOG_OUT": "{!$Label.eCom_HEADER_LOG_OUT}",
   "LOG_IN": "{!$Label.eCom_HEADER_LOG_IN}"
 },
 "PROMOTION": {
   "PROMO_CODE": "{!$Label.eCom_PROMOTION_PROMO_CODE}",
   "PROMOTION_APPLIED": "{!$Label.eCom_PROMOTION_APPLIED}",
   "APPLIED_PROMOTION": "{!$Label.eCom_APPLIED_PROMOTION}"
 },
 "LOGIN": {
   "USERNAME": "{!$Label.eCom_LOGIN_USERNAME}",
   "SIGN_IN": "{!$Label.eCom_LOGIN_SIGN_IN}",
    "INCORRECT_CREDENTIALS_TOASTR_MESSAGE": "{!
$Label.eCom_INCORRECT_CREDENTIALS_TOASTR_MESSAGE}"
```



Wherever you are displaying a label on the UI, a translation pipe is used.

```
-{{'MY_ACCOUNT.QUOTE_DETAIL.QUOTES_BY_STATUS' | translate}}
```

This translation pipe calls the translation loader service, which uses the translation get method to look for the translation URL whether it is in the code base or defined on the storefront object. The translation get method looks at the URL, reads the file, gets all the key values, and displays the response on the template.

Defining translations on Salesforce using Custom Labels

For the translation URL defined on the Storefront record, you must define custom labels.

To define custom labels

- 1. Go to Setup > App Setup > Create and click Custom Labels.
- 2. Click New Custom Label.
- 3. Enter a Short Description for the custom label you are creating.
- 4. Enter a Name for the custom label.
- 5. The default language is English.
- 6. In Categories, enter text to categorize the label.
- 7. In the Value text box, enter text. This value can be translated into any language that Salesforce supports.
- 8. Click Save.

Translations for custom labels determine what text to display for the label's value when a user's default language is the translation language.

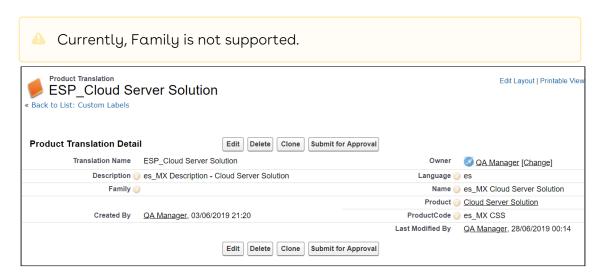
- 1. Go to Setup > App Setup > Create and click Custom Labels.
- 2. Select the name of the custom label to open.
- 3. In the Translations related list, click New to enter a new translation or Edit next to the language to change a translation.
- 4. Select the Language you are translating into.
- 5. Enter the Translation Text. This text overrides the value specified in the label's Value field when a user's default language is the translation language.
- 6. Click Save.

Defining translations for custom objects

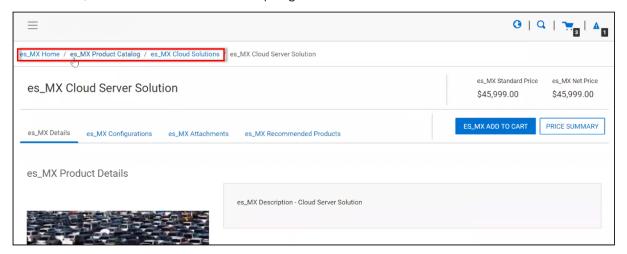
Salesforce supports Product Translations, Category Translations, and Attribute Group Translations.

To define translations for Products

- Go to the Product Translations tab and click New. OR Go to the Product tab, select a product for which you want to define translation, and from the Product Translations related list, click New Product Translations.
- 2. Enter a Translation Name.
- 3. Enter translated text for the following fields:
 - Description
 - · Language
 - Name
 - Product
 - ProductCode



Now when you browse a product on the cart for which you have defined translations in Salesforce, the translated text is displayed.



A

For illustration purposes, the translated categories are prefixed with es_ in the above image. In the actual scenario, the correct language is displayed.

Similarly, you can define category translations.

To define translations for Categories

- 1. Go to the Product tab, select a product for which you want to define the category translation.
- 2. Go to the Categories related list and click the category classification Id.
- 3. From the Product Classification page, click the Category.
 - OR -

- 4. Go to the Categories tab and select the Category for which you want to define translations.
- 5. From the Category Translations related list, click New Category Translation.
- 6. Enter a Category Translation Name.
- 7. Search and select the Category Hierarchy.
- 8. Enter a Language and a Label.
- 9. Select a currency.
- 10. Click Save.

To define translations for Product Attribute Group

- 1. Go to the Product Attribute Groups tab and select a product attribute group for which you want to define the attribute group translation.
- 2. Go to the Attribute Group Translations related list and click New Attribute Group Translation.
- 3. Enter a Translation Name.
- 4. The Product Attribute Group field is already populated.
- 5. In Name, enter the translated attribute group name.
- 6. Enter a Language.
- 7. Select a currency.
- 8. Click Save.

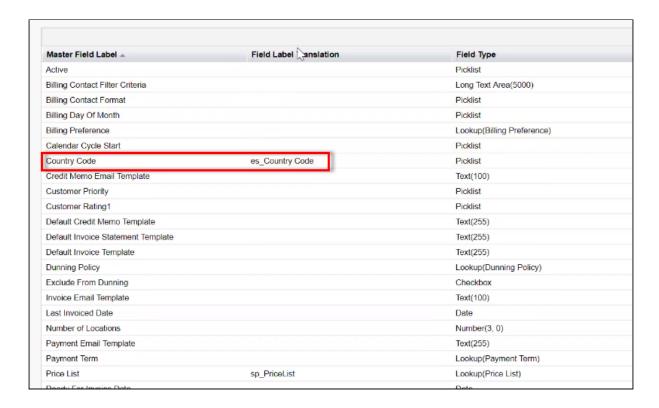
Setting Up Translations using Translation Workbench

You can also translate fields and objects using Translation Workbench. You can set up languages for your translations in the Translation Workbench.

To set up translation using Translation Workbench

- 1. Go to Setup > Administration Setup > Translation Workbench and click Translation Settings.
- 2. Add a Language you want to support for your site.
- 3. To make the translations available to the users in that language, click Active.
- 4. Click **Save**.
- 5. Now go to **Setup > Administration Setup > Translation Workbench** and click **Translate**.
- 6. Select Language.
- 7. Select **Custom Field** as the *Setup Component*. This way you can translate the fields on an object.
- 8. Select an **Object**. A list of all the available fields in the selected object is displayed.

9. For the fields that you want to set the translations, double-click the **Field Label Translation**.



10. Click Save.

Adding a New Locale

You can add a new locale from the template. In the app.module.ts file of the template, refer to the following:

```
// Register locale data
import localeMx from '@angular/common/locales/es-MX';
import localeMxExtra from '@angular/common/locales/extra/es-MX';
import localeFr from '@angular/common/locales/fr';
import localeFrExtra from '@angular/common/locales/extra/fr';
import { registerLocaleData } from '@angular/common';

// If using additional locales, register the locale data here
registerLocaleData(localeMx, 'es-MX', localeMxExtra);
registerLocaleData(localeFr, 'fr-FR', localeFrExtra);
```

To add a new locale, for example, Italian (it). You must add the imports for the locale and then register the locale data with the following three lines.

```
import localeIt from '@angular/common/locales/it';
import localeItExtra from '@angular/common/locales/extra/it';
registerLocaleData(localeIt, 'it', localeItExtra);
```

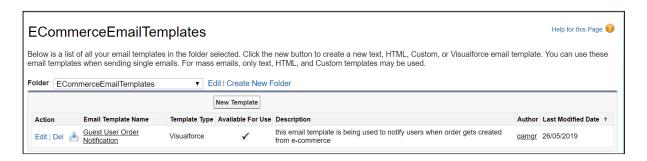
Another example, if you want to change the currency symbol on the UI from \$ to some other currency, you must register it in the template as explained above.

Setting Email Notification Template for Checkout

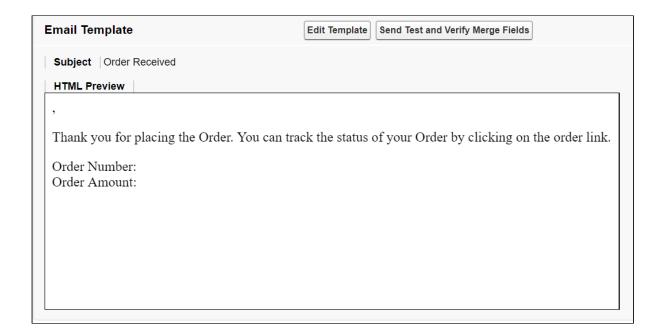
As a guest user or logged-in user, you receive a confirmation email after you place an order upon checkout.

To set up email notification

- 1. Go to Setup > Administration Setup and click Classic Email Templates.
- 2. When you install the managed package, a folder named ECommerceEmailTempalates is available.



- 3. In Folder, select ECommerceEmailTempalates.
- 4. Click Edit for Guest User Order Notification. This is packaged with the managed package too. This email template is being used to notify users when an order gets created from the application.
- 5. Under the Email Template related list, you can view the default email template.



6. Click Save.

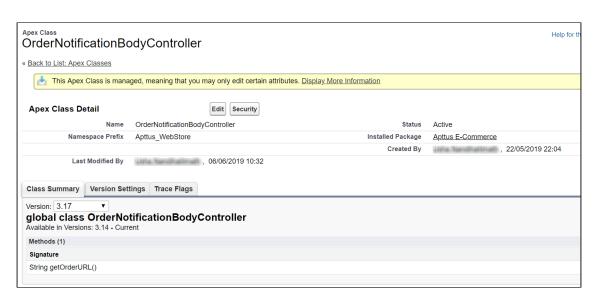
This template is the default template. You may choose to edit the template as per your requirement.

1. Click Edit Template.

```
Email Content
              Version Settings
       <messaging:emailTemplate subject="Order Received {!relatedTo.Name}"</pre>
     2
                                  recipientType="Contact"
     3
                                  relatedToType="Apttus_Config2__Order__c">
    4
     5
           <messaging:htmlEmailBody >
     6
              <c:OrderNotificationBody OrderSo="{!relatedTo}" />
     7
           </messaging:htmlEmailBody>
    8
    9
       </messaging:emailTemplate>
```

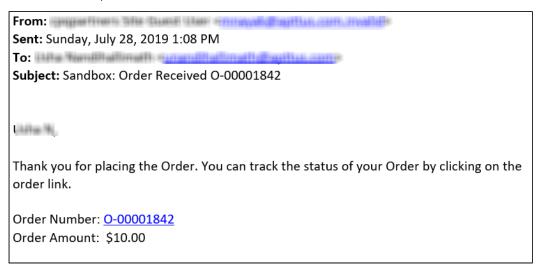
- 2. This template has a default component that comprises the body of the email template. The component is highlighted in the image above.
- 3. To change the body of the template, you can define your own component and within this component, you can use OrderNotificationBodyController.getOrderURL(); to fetch the relative Order URL of your Digital Commerce application.

- a. Click Setup > App Setup > Develop and click Apex Classes.
- b. Browse and click to open OrderNotificationBodyController.



The class that is called is OrderNotificationBodyController.getOrderURL();

See the example email below:



Creating Lookup Field on Account for the Price List

PriceListId gets added to CPQ on the Account object. Create a lookup field on the Account object for the Price List with API name PriceListId_c. You can use this Price List in the Storefront record, to set up your Storefront with Categories, Products, and more.

Digital Commerce Application Caching

The API Cache object that comes with the managed package stores record information such as Line Item Ids and Attributes metadata for quick loading thus improving performance.

The API Cache object caches the Query String and does not rebuild it again once it is cached. When changes are made in the metadata that is part of the query string, you should always clean the Api Cache object.



You must provide CRUD permission to the API Cache object. Organization Wide Default (OWD) access for API Cache Object must be Public Read/Write.

Digital Commerce has a cache in place that stores dynamic queries so that the APIs do not have to rebuild them every time they are used. Every time an API is called, the default (50) cached records are pulled into the memory proactively to more intelligently speed up the API. There was no way to override the number of cached records.

A new admin setting named APTS_ApiCacheHydrateSize is introduced to override the default batch size.

Setting Up the Embedded UI

You can allow customers to configure a product from the product details page within the Digital Commerce interface before adding it to the cart. The Configuration Layout field on the Storefront object has Native and Embedded as its picklist values. Native is the default configuration that provides the Digital Commerce experience. You can select the Embedded picklist value to provide the same Digital Commerce experience similar to CPQ.



Prerequisites

- · Refer to the Supported Features topic to make sure all features you want are included before the Embedded UI setup.
- The minimum required version of the Conga Quote Configuration Integration package is 12.328. Later versions are also supported.

To set up the configuration layout for the product details page

- 1. Go to All Tabs > Storefronts.
- 2. Select the storefront for which you want to set the configuration layout.
- 3. Under the Details section, set the **Configuration Layout** to the layout of your choice. *Native* is the default layout, meaning if selected, the product details page displays the default Digital Commerce configuration layout. You can select *Embedded* to provide the same Digital Commerce experience similar to CPQ.
- 4. Click Save.

For the Embedded UI to work efficiently, you must perform the following tasks:

To configure Flow Settings

Flow settings are required so that appropriate pages are loaded for various sections.

- 1. Go to **All Tabs** > **Config Settings** and click **Flow Settings**. The page to create a new Flow setting opens.
- 2. Create a new record for the flow setting.
- 3. Enter requisite information as explained in the following table:

| Field | Description |
|--------------|------------------------------------------------------------------------------------------------------|
| Name | Enter a mandatory name cartgrid for the flow setting. |
| Assets Page | Enter Apttus_Config2Cart#assetgrid Visualforce page for displaying the Installed products or Assets. |
| Cart Page | Enter Apttus_Config2Cart#cartgrid Visualforce page to access the new Cart page. |
| Catalog Page | Enter Apttus_Config2Cart#Cart Visualforce page to access the new Catalog page. |
| Options Page | Enter Apttus_Config2Cart#Cart Visualforce page to access the new Options page. |

| Field | Description |
|-------------------------------|-------------------------------------------------------------------------------------------|
| Product Attribute Detail Page | Enter Apttus_Config2Cart#Cart Visualforce page to access the new Product Attributes page. |

4. Click Add.

To run a Custom Settings Maintenance job

The Custom Settings Maintenance job generates static resources. You must run this maintenance job after you make any changes in the Flow Settings.

- 1. Go to All Tabs > Custom Settings Maintenance.
- 2. Select the cartgrid flow to run the maintenance.
- 3. Click Update.

To assign Visualforce Page Access

- 1. Go to **Setup** > in the *Quick Find* box, search and select the **Permission Sets**.
- 2. Click the respective Permission Set Label from the list.
- 3. Click Visualforce Page Access.
- 4. Click **Edit** and add the *Apttus_Config2.Cart* and *Apttus_WebStore.RedirectHandler* pages under the **Enabled Visualforce Pages**.
- 5. Click Save.

To enable the iFrame setting in Salesforce org

- 1. Go to **Setup** > in the *Quick Find* box, search and select the **Sites**.
- 2. Click the respective **Site Label**. For example, E-Commerce.
- 3. Click **Edit** > in the *Clickjack Protection Level* field, select the **Allow framing by any** page (No protection) option.
- 4. Click Save.

To enable the iFrame setting in Browser

- 1. Go to the Browser Settings.
- 2. Click the Privacy and security option > Cookies and other site data.
- 3. In General Settings, select the Allow all cookies option.

Configuring TurboEngines

TurboEngines is a concurrent processing engine provided by Conga that comprises various microservices that process pricing calculations (**TurboPricing**). TurboEngines offload the computation workload from the Salesforce platform to the **Conga Flexible Compute Platform** to reduce the processing time on the cart. Processing the computation workload in the Flexible Compute Platform reduces the interaction costs and the quote turnaround time specifically during peak load or large transactions.

Digital Commerce integration with Turbo engines fetches the master data on the product catalog and details page; thus highlighting performance improvements on the pricing side with Turbo pricing integration. It leverages Turbo APIs and Digital Commerce and how it can be used in your templates.

Turbo Integration is used mainly to achieve performance and high scalability. Classic config engines (client or server side) have limitations due to Salesforce platform with governor limits that prevents scaling beyond 100 SOQL queries per request or an API callout is not allowed after a DML operation. This prevents us from scaling and performing beyond a minimal complexity specially where a huge chunk of data is involved. Turbo integration are microservices that are highly performant and scalable and can serve the complex case of any configuration. These microservices are easily available through APIs leveraging these services to achieve better performance and that is what Digital Commerce is using.

By default, the Digital Commerce package is deployed in the non-TurboEngines mode. You can switch TurboEngines mode according to your business setup.

TurboEngines also provide a critical component called **TurboEngines Data Sync** services that provide a high-performance mechanism to sync pricing master data at regular, scheduled intervals (or on-demand) between Salesforce and the Flexible Compute Platform. Data is pushed to TurboPricing consumer endpoints and made available for processing to take advantage of the performance improvements offered by the TurboEngines platform.

The following section provides information and step-by-step tasks for integrating Digital Commerce with TurboPricing for your organization.

- · Enabling TurboPricing in an Org
- Creating a Connected App
- Preparing Tenant Information
- Setting Up the TurboPricing Endpoint URLs
- · Setting Up the Pricing Execution Mode
- Configuring Remote Site Settings for Turbo Engines
- Configuring Data Sync for TurboPricing

· Pricing Mechanism

Enabling TurboPricing in an Org

This topic provides a summary of the necessary steps for enabling TurboPricing for your org.

An administrator can be any of the following persona: Customer Administrator, Partner Administrator, any other administrators assigned the responsibility of enabling TurboEngines for their org. In the table on this topic, this persona is referred to as the *Tenant Admin*.

A

Prerequisites

- Refer to the Supported Features topic to make sure all features you want are included before making a provisioning request.
- You must have the appropriate TurboEngines license before turning on your org. If you do not have a license, please contact your Conga Account Executive.
- The minimum required version of the **Conga Configuration & Pricing** package is **12.1814** to enable TurboPricing. Later versions are also supported.

Enabling TurboPricing

To enable TurboPricing, perform the following steps for each org:

| Step | Task | Owner | Description |
|----------|----------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Prov | Pre-Provisioning Tasks | | |
| 1 | Set up Connected App in your org | Tenant Admin | Create a connected app to provide authentication and authorization to TurboPricing Data Sync Service. |
| 2 | Prepare pre- provisioning tenant information | Tenant Admin | Gather all required information for provisioning your TurboPricing org. Provide this information to Conga Technical Support to begin the provisioning process. |

| Step | Task | Owner | Description | |
|---------|-----------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--|
| Post-Pr | Post-Provisioning Tasks | | | |
| | . | · · | receiving a notice from Conga Technical Support d. You must have the new service URLs to proceed. | |
| 3 | Configure Services | Tenant Admin | Update the following settings: 1. Set up the Pricing Execution Mode 2. Set up the TurboPricing endpoint URL | |
| 4 | Configure data sync settings for TurboPricing | Tenant Admin | Complete the data sync for post-provisioning. • For TurboPricing | |
| 5 | Sync data to TurboEngines | TurboEngi nes Administra tor (can be Tenant Admin) | Set up and schedule or activate data sync to sync pricing master data. | |

Creating a Connected App

As part of the pre-provisioning process, you must configure a Connected App in your org to provide authentication and authorization for the TurboPricing services.

To create a Connected App

- 1. Navigate to Setup > App Setup > Create > Apps.
- 2. Scroll down and search for the **Connected Apps** related list and click **New** to create a new app.
- 3. Enter the following details in the **Basic Information** section.

| Field | Description |
|--------------------|------------------------------------|
| Connected App Name | Enter the name of the Connect App. |

| Field | Description |
|---------------|---------------------------------------------------------------------------------|
| API Name | The API name is generated automatically based on the name of the Connected App. |
| Contact Email | Enter the email address of the administrator managing the Connected App. |

4. Enter the following details in the API (Enable OAuth Settings) section.

| Field | Description | |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Enable OAuth Settings | Select this to define the OAuth settings. For example, TurboPricing. When you enable this field, additional settings are displayed under API (Enable OAuth Settings) section. | |
| Enable for Device Flow | Select this to enable the connected app for an external application. | |
| Callback URL | The Callback URL is generated automatically when you select the field Enable for Device Flow. For example, https://test.salesforce.com/services/oauth2/success is generated based on the instance URL. You can also add other URLs in separate lines. | |
| Selected OAuth Scope | Select all entries under Available OAuth Scopes and move them to Selected OAuth Scopes by clicking the Add arrow. | |
| Require Secret for Web Server Flow | Select this to require the connected app to provide a consumer secret for authorization. | |

5. You must leave all other fields blank. Click Save.

To capture Consumer Key and Consumer Secret

After you create a Connected App, the application generates **Consumer Key** and **Consumer Secret**. You must provide the values of **Consumer Key** and **Consumer Secret** to the Technical Support team.

- 1. Navigate to Setup > App Setup > Create > Apps.
- 2. Scroll down and search for the Connected Apps related list.
- 3. Click the name of the Connected App you created in the previous topic.
- 4. Click Copy next to Consumer Key.

- 5. Click **Click to reveal** next to **Consumer Secret**. After the value of the field is displayed, click **Copy**.
- 6. Store the information for the next part of the process.

Preparing Tenant Information

Your provisioning request for TurboPricing must include specific information related to your tenant. Before your org can be provisioned, you must gather the required information and provide it to the Technical Support team.

① Configure a Connected App to use with TurboPricing before collecting the information described in this topic.

Refer to the following table for all required pre-provisioning information:

| Configurati on | Required for Service | Description |
|-------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Orgld | TurboPricing | This is the Salesforce Organization ID of the org to be provisioned for TurboEngine service. To locate your Organization ID: |
| | | Log in into the org to be provisioned. Go to Setup > Company Profile > Company Information > Salesforce.com Organization ID. Copy the 15-character ID (to be converted into 18 characters). |
| Org Type | TurboPricing | Org type to be provisioned (sandbox or production) |
| Tenant Name | TurboPricing | The one-word tenant name used for the tenant endpoint (for example, <i>customername-sandbox</i>) |
| Consumer Key | TurboPricing | The consumer key (client-id in OAuth 2.0) generated from your Connected App. Refer to Creating a Connected App. |
| Consumer Secret | TurboPricing | The secret key (client-secret in OAuth 2.0) generated from your Connected App. Refer to Creating a Connected App. |
| Salesforce User Name | TurboPricing | Admin username for the org to be provisioned with read/write access to CPQ (used by the Technical Support team for verifying settings). |

| Configurati on | Required for Service | Description |
|------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Salesforce Password | TurboPricing | Password for the Salesforce admin user. |
| Authority | TurboPricing | The URL used to verify session ID for TurboPricing (login.salesforce.com, test.salesforce.com, or a custom Salesforce domain) |
| InstanceURL | TurboPricing | The URL given by the UI after logging into the org to be provisioned (for example, <i>customerturbo.my.salesforce.com</i>) |

After collecting all the required information, provide it with your tenant provisioning request to the Technical Support team.

Setting Up the TurboPricing Endpoint URLs

This section provides information on adding records to the Admin settings for setting up the TurboPricing endpoint URLs to trigger TurboPricing APIs.

To add APTS_PricingServiceUrl

- 1. Go to **All Tabs** > click **Admin**. The Home page is displayed.
- 2. Click **New**. The New Admin page is displayed.
- 3. In the **Name** field, enter *APTS_PricingServiceUrl*. This must be the exact same name in your org. Do not change it. The storefront API looks for this profile name to fetch the TurboPricing endpoint URL.
- 4. In the **Value** field, enter the TurboPricing endpoint URL (with https://) provided by DevOps.
- 5. In the **Code** field, enter your 18 digit Org ID in lowercase.
- 6. Click Save.

To add APTS_PricingServiceOverrideURI

- 1. Go to All Tabs > click Admin. The Home page is displayed.
- 2. Click **New**. The New Admin page is displayed.

- 3. In the **Name** field, enter *APTS_PricingServiceOverrideURI*. This must be the exact same name in your org. Do not change it.
- 4. In the **Value** field, enter the TurboPricing endpoint URL (without https://) provided by DevOps.
- 5. Click Save.

Setting Up the Pricing Execution Mode

This section provides information for setting up the pricing execution mode.

- 1. Go to Setup > App Setup > Develop > Events > Custom Settings.
- 2. Click Config System Properties. Click Manage.
- 3. Click Edit next to System Properties.
- 4. In the Pricing Execution Mode, enter Turbo.
- 5. Click Save.

For TurboPricing with SDK Integration, you must set the pricingMode = *turbo* in the base template.For details, refer to Configuring Templates.

Configuring Remote Site Settings for Turbo Engines

You must configure the remote site settings to add the service endpoint URL.

To create a Remote Site record

- 1. Go to Setup > Administration Setup > Security Controls > Remote Site Settings.
- 2. Click **New Remote Site**.
- 3. Enter the name in Remote Site Name. For example, TurboConfig.
- 4. Enter the URL for the remote site in the **Remote Site URL**. Example service endpoint URL: https://dcexample.examplecloud.io, where dcexample is your tenant.
 - ① The Remote Site URL must be the service endpoint that DevOps provisioned while onboarding your tenant.
- 5. Enable Active, if not selected by default.
- 6. Click **Save**.

Configuring Data Sync for TurboPricing

To complete post-provisioning for TurboPricing, the tenant admin must configure settings for data sync services. TurboEngines data sync provides a high-performance mechanism to sync pricing master data at regular, scheduled intervals (or on-demand) between Digital Commerce and TurboPricing. Before the initial data sync, you must configure settings to enable data sync services and give the administrator access to the TurboEngines Data Sync Admin user interface (UI) to set up and schedule or activate the sync.

Perform the following tasks to complete post-provisioning data sync tasks for TurboPricing:

Configure Data Sync Specific Settings

You must configure the data sync service URL and a CSD Trusted Site entry so SFDC can communicate with an external server.

To configure the service URL

- 1. Go to Setup > App Setup > Develop > Custom Settings.
- 2. Click Manage next to Turbo Engine Admin Properties.
- 3. Click New.
- 4. Enter the following required properties:
 - · Name: LightsaberServiceUrl
 - Turbo Engine service Endpoint: Endpoint URL provided by the Technical Support
 Team
- 5. Click Save.

To configure the CSD Trusted Site

- 1. Go to Setup > Administration Setup > Security Controls > CSD Trusted Sites.
- 2. Click New Trusted Site.
- 3. Enter the following required properties:
 - Trusted Site Name: Enter a name for the trusted site (for example, "TurboEngineAdminService")
 - Trusted Site URL: Enter the full URL. This is the service URL you configured in the previous section (To configure the service URL).
 - Context: Select a context.

4. Click Save.

Configure Permissions for Data Sync Admin User

Users who need to configure and run Turbo Engine Data Sync must have permission to access and use the Data Sync Admin UI. This can be a user who is assigned to the System Administrator profile, or you can customize a profile and create one or more users in this role.

To check if the current user has the right permissions

- 1. Log in to your organization as the admin user.
- 2. Open the Salesforce App Launcher (Lightning) and launch the **Turbo Engine** Admin app.
- 3. If the **Data Integration** and **Callbacks** tabs are visible after launching the app, the user has the correct permissions. Otherwise, log in back as a system administrator and perform the following tasks to provide access to the user profile.

To provide access to the data sync app

- 1. Go to **Setup > App Manager**.
- 2. Find the **Turbo Engine Admin** app on the list. Click the drop-down and the end of the row and select **Edit**.
- 3. Click User Profiles.
- 4. From the list of Available Profiles, search and select the app you want to add.
- 5. Click the right-facing arrow to move the profile from the list of Available Profiles to the list of Selected Profiles.
- 6. Click **Save**.

To make all tabs visible in the data sync app

- 1. Go to **Setup > Profiles**.
- 2. Search for the profile you want to configure and click Edit.
- 3. Under Custom Settings, make sure the following tabs are set as "Default On":
 - Data Integration: This tab serves as the starting point for managing all consumer profiles.
 - · Callbacks: This tab allows you to manage pricing callbacks for Turbo Pricing.
 - Consumer Profile: This tab allows you to set up and configure data sync operations.

• Run Details: This tab allows you to review run history for data sync and take action.

Setting Up and Syncing TurboPricing Data

For complete information and the tasks required to administer TurboEngines data sync for TurboPricing, refer to the latest *TurboEngines Data Sync Administrator Guide* on the Documentation portal.

Pricing Mechanism

You can change the pricing of products using the following flags at the template level:

- skipPricing
- skipRules
- pricingFallback

The Digital Commerce SDK consists of the following flag to change pricing. These flags are available in the environment file.

| Flag | Description |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| skipPricing | By default, this flag is set to True. When the user changes an existing cart, Digital Commerce skips pricing meaning pricing still runs in the background making another network call, thus scalable to large carts. Setting this flag to False allows Digital Commerce to perform pricing when the user changes an existing cart, meaning all CRUD operations such as update quantity, delete a line item, data change along with pricing on the cart are performed in a single network call. This is ideal for a cart with up to 50 line items. For more than 50 line items, it is recommended you set the skipPricing flag to True. |
| skipRules | By default, this flag is set to False. When the user changes an existing cart, Digital Commerce evaluates the rules. Setting this flag to True skips rules when the user changes an existing cart. |

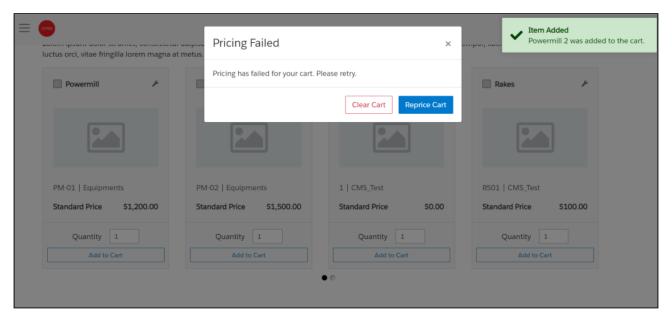
You may use these flags with the following combinations to allow Digital Commerce to make changes to the cart with or without pricing parameters.

- skipPricing = True and skipRules = False
- skipPricing = False and skipRules = True
- skipPricing = False and skipRules = False

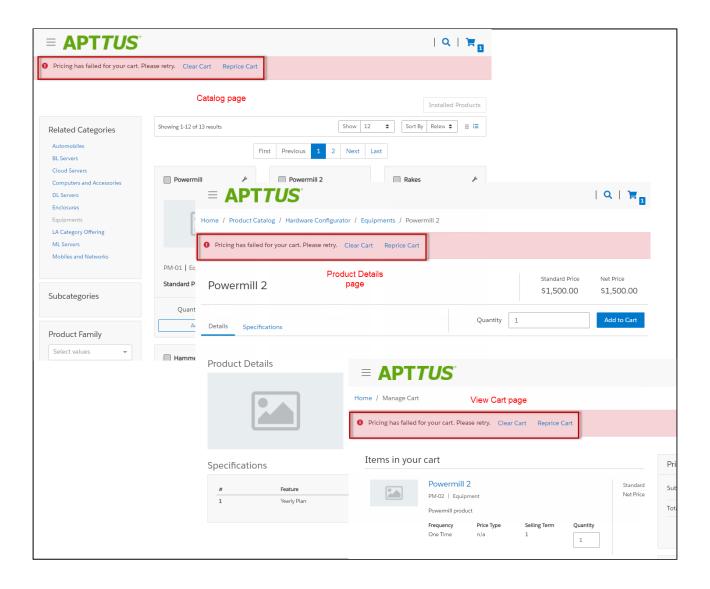
You can set up a pricing fallback when TurboPricing fails. The following flag is available in the environment file.

| Flag | Description |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pricingFallback | By default, this flag is set to False. When TurboPricing fails, an error message is displayed without any further action. Setting this flag to True enables the system to use CPQ pricing. |

You can also set up a pricing retry mechanism if you want further action when the TurboPricing or CPQ Pricing fails. When pricing fails a pop-up appears with the **Retry** and **Clear Cart** buttons.



When the user clicks Retry, Digital Commerce performs pricing again; when the user clicks Clear Cart, Digital Commerce clears the cart if you do not want it to perform repricing. If the user moves away from the pop-up without performing any action, these buttons are still available in the top bar of the Catalog, Product details, and View Cart pages.



Downloading the Digital Commerce SDK

All the Digital Commerce SDK libraries are hosted at https://art01.apttuscloud.io/api/npm/npm-release.

After cloning the reference template, you must update the npmrc file in the reference template with the SDK library hosted URL and your own secret key.

Contact our Professional Services team to get your own secret key.

- Cloning the Reference Templates
- · Installing the Reference Template
- · Running the Application in Localhost
- · Deploying the Application to Salesforce

Cloning the Reference Templates

You can clone a template from the standard repository and customize it as per your specific requirement.

To clone a template from the repository

1. Open command prompt and type *git clone,* the *URL* of the template, and a new name for your cloned template. See the following example:

```
C:\WINDOWS\system32\cmd.exe-git clone https://github.com/( /getting-started apttus-qa

Microsoft Windows [Version 10.0.17134.165]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\cmoyl>cd ../../

C:\>cd Workspace

C:\Workspace>git clone https://github.com/( /getting-started apttus-qa

Cloning into 'apttus-qa'...
```

2. Press Enter on your keyboard.

Your template is cloned. You can now open the code for the cloned template.

Installing the Reference Template

After cloning a template, the first task is to run the npm install command. For this, you must have access to the npm registry for the SDK. To gain access to the artifacts you must raise a ticket with the DevOps team.

After you can have access to the SDK, you must run the npm install command. The npm install command installs third party libraries. One of the dependencies under the package.json folder is the apttus/ecommerce library that bundles all the components library and the data access layers. The npm install process sets up the Digital Commerce SDK with your Salesforce instance.

Pre-requisite: You must ensure that the following tasks are completed before you run the npm install command:

Install required packages on your Salesforce org

- · Set up a community, if not already done
- · Create a custom field on Accounts for Price List
- · Create a Store object and a store record within it
- Ensure you have node.js and angular-CLI installed on your local machine in order to use the templates

To install the SDK and dependent libraries

- 1. Open the code of the template.
- 2. Type npm install and press Enter on your keyboard.

The SDK and dependent libraries are ready for use.

Configuring Templates

You can open the repository folder on your local machine to check the setup.

•

A new folder named node_modules is created. You should never modify anything in the node_modules folder. This folder is not part of the repository. All the third party dependencies get installed in this folder. Whenever you run an npm command the dependencies are overridden in this folder.

Salesforce Credentials

As part of the setup, sf.json file is created that contains the credentials for deploying the application. If you want to deploy your Storefront in a different org, you can update the credentials in this sf.json file.

Configuration Parameters

During the npm install phase, a configuration file named config.ts is automatically created. This is a runtime configuration for the application. This file is different from the sf.json file. The config.ts file contains runtime specific variables that help the application to operate. You must set it up with the following parameters:

| Name | Туре | Required | Default Value | Description |
|--------------------------|---------|----------|------------------|-------------------------------------------------------------------------------------------------------|
| production | Boolean | Yes | - | Specify the environment where you want the application to run. |
| organizationId | String | Yes | - | Specify the org Id of the application. For details, see the <i>Contact Support</i> section. |
| defaultImageSrc | String | No | - | Specify the URL of the default image to use when no image is found. |
| defaultCountry | String | Yes | US | The default country code is "US". |
| defaultLanguage | String | Yes | en-US | The default locale is "en-US". |
| enableErrorLoggin g | Boolean | Yes | True | Set this to True, in non- production mode, to send error logs. |
| enableErrorReport ing | Boolean | Yes | True | When set to True, in non- production mode, it shows a model window to provide user feedback. |
| enableMultiCurre ncy | Boolean | No | False | If using a multi-currency enabled org, set to true to enable currency fields on models. |
| enableErrorPrintin g | Boolean | Yes | True | |
| enableQueryLogs | Boolean | No | True | Set to true to print query requests and results in the browser console. |

| Name | Туре | Required | Default Value | Description |
|---------------------------|--------------------------|----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enablePerforman ceLogs | Boolean | No | True | Set to true to print performance metrics of requests in the browser console. |
| defaultCurrency | String | Yes | USD | The default currency to use for guest users. Defaults to "USD". |
| bufferTime | Number (milliseconds) | No | 200 | The number in milliseconds to wait before sending requests. A larger number will batch requests into a single network callout, but may decrease performance. |
| maxBufferSize | Number | No | 10 | The maximum number of requests to batch into a single callout. |
| disableBuffer | Boolean | No | False | When set to true, will disable buffered requests entirely. I request = 1 network callout. |
| subqueryLimit | Number | No | 20 | |
| pricingMode | 'default' 'turbo' | No | default | The default pricing mode is "default". To use TurboPricing as the pricing mode, set the value to "turbo". |
| disableCache | Boolean | No | False | When set to true, data returned from requests will not be cached. |

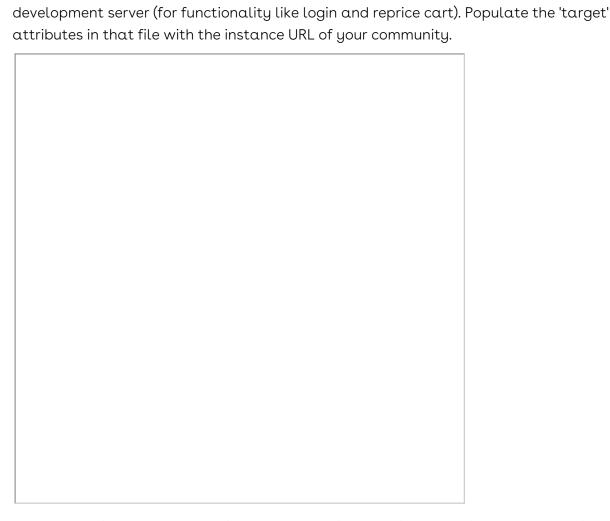
| Name | Type | Required | Default Value | Description |
|-----------------------------------|--------------------------|----------|------------------|-----------------------------------------------------------------------------------------------------------|
| encryptResponse | Boolean | No | True | When set to true, responses from the server will be encrypted. |
| | | | | A Encryption payload is limited to 1 MB. |
| productIdentifier (Deprecated) | String | No | ld | The API name of the field on the product to use as the unique identifier in the application. |
| cartRetryLimit | Number | No | 10 | Maximum number of times the CPQ reprice operation should be attempted when the state of the cart changes. |
| debounceTime | Number (milliseconds) | No | 200 | Amount of time the application should wait for user input before batching DML operations. |
| storageAccount (Deprecated) | String | No | - | |
| tenantld (Deprecated) | Number | No | - | |
| tenant (Deprecated) | String | No | - | |
| proxy | String | No | - | The login proxy to use to bypass CORS restrictions on login. |
| useIndexedDB | Boolean | No | False | When set to true, data cache will be persisted in browser IndexedDB. |

| Name | Туре | Required | Default Value | Description |
|----------------------|---------|----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| skipPricing | Boolean | Yes | True | When the user changes an existing cart, Digital Commerce skips pricing. Setting this flag to False allows Digital Commerce to perform pricing when the user changes an existing cart. |
| skipRules | Boolean | Yes | False | When the user changes an existing cart, Digital Commerce evaluates the rules. Setting this flag to True skips rules when the user changes an existing cart. |
| pricingFallback | Boolean | Yes | False | When TurboPricing fails, an error message is displayed without any further action. Setting this flag to True enables the system to use CPQ pricing. |
| packageNamesp ace | String | Yes | - | |
| storefront | String | Yes | Null | |
| expandDepth | Number | No | 10 | The maximum number of queries that should be executed to populate subquery data. |
| hashRouting | Boolean | No | False | |
| queryDepth | Number | No | 2 | The maximum depth of relationships to be used in a query. |

| Name | Туре | Required | Default Value | Description |
|----------------------|------------|----------|------------------|-------------------------------------------------|
| endpoint | String | Yes | - | Specify the URL you set on the community sites. |
| sentryDsn | String | No | - | |
| runTimeDebugMo de | Boolean | Yes | False | |
| connectedApp | ConnectApp | Yes | - | |
| defaults | Defaults | | | |
| | | | | |
| | | | | |

Setting Up Proxy for Local Development

There is also a proxy.config.json file that gets installed in the root directory as part of the deployment. To configure the proxy.config.json file, you must provide the Community URL in both the target locations. This allows you to make SOAP API calls from your local

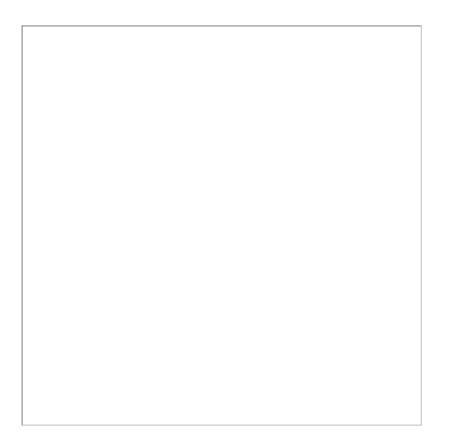


All the code for the templates is open sourced into the library we just cloned and installed. It consists of all the modules such as cart page, home page, account page, and more. We can go into any template, for example, Home page layout where you can see some of the components of the underlying component library. For example, apt-jumbotron. This is a component library that gets installed as part of the apttus/ecommerce. You don't need to essentially build a code for this component. This is a component with the npm package. You just need to modify a single line of HTML code to reference and use it.

You can reference your configuration and import them into your main application module from the app.module.ts file. This app.module.ts file contains an ApttusModule and a CommerceModule. These two modules are getting referenced from the underlying libraries. You must import them into the root module or application to use them.

Importing the app modules in the root module

Add two lines for the following:



Setting Up Subset of Categories

You can set up specific categories or subset of categories from the header.component.ts file.

Turning Off Sentry for a Customer

Our angular application is wired into Sentry, any errors that occur for customers are sent to sentry. You can view those in sentry, along with stack trace, and debug them. If customers don't want such information to be sent to us, you may consider turning it off for customers.

Go to config.ts and do the following:

- enableErrorLogging Set this to False.
- enableErrorReporting Set this to False.

Running the Application in Localhost

Now that the SDK and dependent libraries are installed and ready for use, you must use the *npm run build* command. This command builds the angular application in your local machine.

To run your application locally on your local machine use the *ng serve* command. This command runs the E-Commerce site locally in your local machine against the configuration that you set up during the npm install phase.

Navigate to http://localhost:4200/ to see how your application looks like. The application displays categories, products, pricing, and more based on the Price List selected in the Storefront record. The app is automatically reloaded if you change any of the source files.

Bootstrap Theme Changes

Bootstrap and ngx Bootstrap (angular wrapper to Bootstrap) is installed during the npm install phase. The templates are built around the Bootstrap as a UI framework. You can change to any other mechanism if you don't want to use Bootstrap.

A variables.scss file is installed in the template. If you want to do some quick and easy theme change to your template, you can modify this file as per your requirement. All this follows standard Bootstrap framework constructs to modify cards, dropdowns, forms, buttons, and more.

Deploying the Application to Salesforce

After everything looks correct in your local machine, you are now ready to deploy your Digital Commerce application on your Salesforce Org.

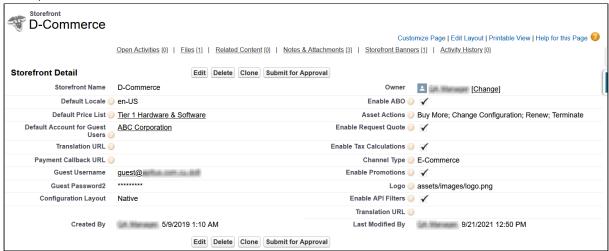
Deploying Standard Template

Along with the managed package, you get a standard template.

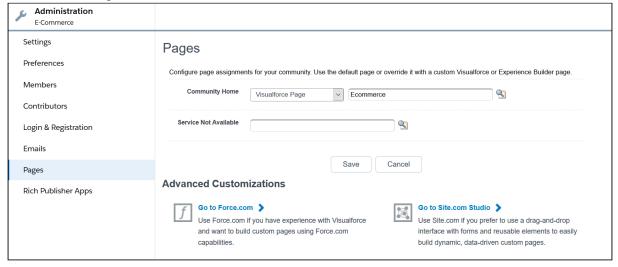
To deploy the standard template

1. Create a Storefront Record pertaining to your desired template. To deploy the eCommerce template, you must name your storefront **D-Commerce**. All other settings

are optional.



- 2. Set up a Community to host the storefront you created. After the community is set up, assign the corresponding visual force page as the home page of the community.
- 3. Within the community workspace, go to the Administration section, and from the left menu, click **Pages**.



4. From the Community Home drop-down, select **Visualforce Page**. Search and select **ECommerce** for your template and click **Save**.

Your standard template is successfully deployed. From All Communities, click the URL to see how your application looks in your Salesforce org.

Deploying Custom Template

If you have access to the Digital Commerce SDK and have customizations of your own. You can deploy your customizations to Salesforce and host them in your community.

To deploy custom template

1. You must set up the **Main.ts** file. The Digital Commerce SDK breaks out the individual pages into *chunks* that make load times quicker for those pages. In order to support this within Salesforce, you must point the webpack script to the chunks. You can do this by modifying the main.ts file as below:

```
import { enableProdMode } from '@angular/core';
import { platformBrowserDynamic } from '@angular/platform-browser-dynamic';

import { AppModule } from './app/app.module';
import { environment } from './environments/environment';

declare var __webpack_public_path__: string;
const sv = (<any>window).sv;

if (environment.production) {
  enableProdMode();
  if (sv && sv.resource) {
    __webpack_public_path__ = sv.resource + '/';
  }
}

platformBrowserDynamic().bootstrapModule(AppModule)
  .catch(err => console.error(err));
```

2. You must change the output hashing in Angular.json. By default, when the application is built, unique hash keys are assigned to all the scripts preventing certain caching mechanisms in the browser. This is not required in Salesforce and may cause issues. To prevent such issues, you must set the outputHashing parameter in the angular.json file to *none* for your build.

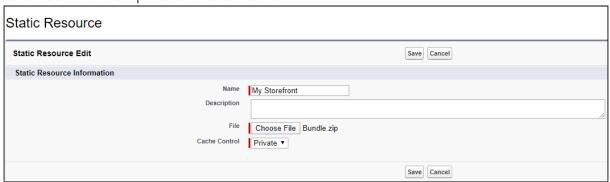
3. Build your application using angular cli. The angular cli provides an easy script to build your application. Simply run the following replacing production with whatever configuration you are using.

```
ng build --configuration="production"
```

4. After the application is built, an output folder called *dist* with the entire contents of your application in various resource files is created.

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| • web | 3/30/2020 6:33 PM | Configuration Sou | 3 KB |
| styles | 3/30/2020 6:33 PM | Cascading Style S | 561 KB |
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| Roboto-Regular.woff2 | 3/30/2020 6:33 PM | WOFF2 File | 64 KB |
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| polyfills-es5 | 3/30/2020 6:33 PM | JavaScript File | 71 KB |
| polyfills | 3/30/2020 6:33 PM | JavaScript File | 132 KB |
| manifest.webmanifest | 3/30/2020 6:33 PM | WEBMANIFEST File | 2 KB |
| o manifest | 3/30/2020 6:33 PM | JSON Source File | 2 KB |
| 🌋 main | 3/30/2020 6:33 PM | JavaScript File | 5,073 KB |
| index o | 3/30/2020 6:33 PM | Chrome HTML Do | 1 KB |
| favicon | 3/30/2020 6:33 PM | lcon | 2 KB |
| a-solid-900.woff2 | 3/30/2020 6:33 PM | WOFF2 File | 75 KB |
| a-solid-900.woff | 3/30/2020 6:33 PM | WOFF File | 97 KB |
| 🔥 fa-solid-900 | 3/30/2020 6:33 PM | TrueType font file | 190 KB |
| 🞒 fa-solid-900 | 3/30/2020 6:33 PM | SVG Document | 830 KB |
| a-solid-900.eot | 3/30/2020 6:33 PM | EOT File | 190 KB |
| fa-brands-400.woff2 | 3/30/2020 6:33 PM | WOFF2 File | 75 KB |
| a-brands-400.woff | 3/30/2020 6:33 PM | WOFF File | 88 KB |
| 🔊 fa-brands-400 | 3/30/2020 6:33 PM | TrueType font file | 130 KB |
| fa-brands-400 | 3/30/2020 6:33 PM | SVG Document | 700 KB |
| fa-brands-400.eot | 3/30/2020 6:33 PM | EOT File | 130 KB |
| ቜ 5 | 3/30/2020 6:33 PM | JavaScript File | 8 KB |
| 3rdpartylicenses | 3/30/2020 6:33 PM | Text Document | 99 KB |
| assets | 3/30/2020 6:33 PM | File folder | |

- 5. Create a static resource. After the contents of the application is built, you must bundle it and deploy it to a Salesforce static resource. Select all of the build files and put them into a zip file with a name of your choice.
- 6. Go to **Setup > Develop > Static Resources** and click **New** to create a new static resource with the zip file as its contents.



7. Create the Visualforce Page. After the static resource has been created, you must create a visualforce page to display the contents of the resource file. See the example visualforce page below you can use to host your application. You can make any changes you want, but there are a couple of considerations:

- You must add the script to assign the *window.sv.resource* variable to the URL of the static resource.
- · Remove the base tag or assign it to the relative URL of the community.
- Replace *Resource.ECommerce* in the below template with the name of the static resource file you uploaded.

```
<apex:page standardStylesheets="false" showHeader="false" sidebar="false" docType="ht</pre>
ml-5.0" applyHtmlTag="false" applyBodyTag="false">
 <head>
    <meta charset="utf-8" />
    <title>ECommerce</title>
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <link rel="icon" type="image/x-icon" href="favicon.ico" />
    <link rel="manifest" href="manifest.webmanifest" />
    <meta name="theme-color" content="#1976d2" />
   <\link rel="stylesheet" href="{!URLFOR($Resource.ECommerce, 'styles.css')}" />
    <script>
       window.sv = {
            resource: '{!URLFOR($Resource.ECommerce)}/'
       };
    </script>
  </head>
 <body>
    <app-root></app-root>
   <noscript
     >Please enable JavaScript to continue using this application.</noscript
   <script src="{!URLFOR($Resource.ECommerce, 'runtime.js')}"></script>
    <script src="{!URLFOR($Resource.ECommerce, 'polyfills-es5.js')}"></script>
    <script src="{!URLFOR($Resource.ECommerce, 'polyfills.js')}"></script>
   <script src="{!URLFOR($Resource.ECommerce, 'scripts.js')}"></script>
    <script src="{!URLFOR($Resource.ECommerce, 'main.js')}"></script>
 </body>
</apex:page>
```

Customizing Your Application

In this Section

- · Customizing HTML Content and Standard Components
- Adding Custom Fields on Object Models
 - Adding Custom Attributes to α Product
- Customizing Logic in the Services
- · Customizing the Template Page with Custom Field
- Search Engine Optimization
- Using Custom Objects Through APIs
- Useful Tips for Turbo Enabled Catalog

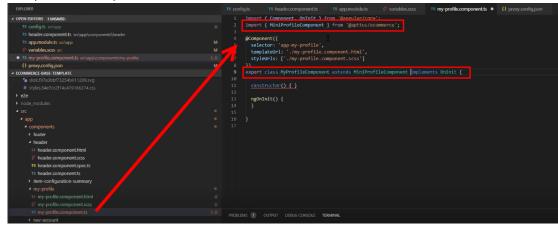
Customizing HTML Content and Standard Components

You can override the HTML for any component that comes with your angular application. You can do so by writing an extension component. Similarly, you can override the methods within it as well. For example, there is a registration method and you want to retain it but want to change the look and feel of the template, you must write an extension component. You can override extension classes, extension services, or extension components that are present within the angular library.

To customize the HTML content

- 1. Go to the **header.component.html** file and browse for the **apt-mini-profile** component. The HTML content is all bundled into this component.
- 2. Go to your application and use basic angular syntax to generate a component. For example: ng g c components/my-profile --module-components/component.module.ts --spec-false
- 3. A new my-profile.component.ts is created.
- 4. Import the miniprofile component from @apttus/ecommerce and extend the miniprofile component. By doing this, all the controller code is inherited from the

miniprofile component.



- 5. Refer to the Digital Commerce SDK and search for miniprofilecomponent. Click on the Template tab for the HTML template for all of the components in it.
- 6. Copy all the HTML content and paste it in the my-profile.component.html you just created and save it.
- 7. From the new component you just created, copy the selector and go to the header where it is referenced and paste the selector.

```
## Applications (Decomposed of the Applications of the Applications (Decomposed of the Applica
```

8. Run ng serve command.

The profile component is overridden.

Go to my-profile.component.html and within the HTML content add a custom field and save.

Refresh your application on the local machine and you will see the newly added custom field. If you want to assign the custom field to a user that is associated with the component, you can do so by modifying the ngModel. For example: [(ngModel)]="user.My_Custom_field__c"

Adding Custom Fields on Object Models

You can add custom fields to a modal by using the extended model in components. The strategy to add customization to the application is to use the object-oriented nature of typescript to extend and override the out-of-the-box content. Let us see how to add a custom field to the Product object.

To create a custom model

- 1. Right-click on the App folder and click **Create Folder** to create a new folder for models and name it. For example models.
- 2. Right-click on the model's folder and click **Create File** to create a product model and name it. For example s-product.model.ts
- 3. In the s-product.model.ts, import Product from @apttus/ecommerce. For example: import { Product } from @apttus/ecommerce
- 4. Create the extension of the product for your custom model.
 For example, export class SProduct extends Product {}. The SProduct class has all the properties of the original product.

```
Deposition

Formation

Formation
```

Example for option group lookups to fetch the option products:

```
import { ATable, AField } from '@apttus/core';
import {
  Product,
  ProductOptionComponent,
  ProductOptionGroup,
} from '@apttus/ecommerce';
import { Expose, Type } from 'class-transformer';
@ATable({
  sobjectName: 'Product2',
 aqlName: null,
})
export class SProduct extends Product {
  @Expose({
   name: 'APTS_Additional_Info__c',
  })
  AdditionalInfo: string = null;
  @Expose({
   name: 'APTS_Estimated_Delivery_Days__c',
  })
  EstimatedDeliveryDays: string = null;
  @Type(() => SProductOptionGroup)
  @Expose({ name: 'Apttus_Config2__OptionGroups__r' })
  OptionGroups: Array<SProductOptionGroup>;
Ъ
```

- 5. When adding custom properties to your model, you must associate the following decorators from the @apttus/core library. These are used to map your classes to the underlying Salesforce objects. Basically, this mechanism is to map typescript classes with Salesforce objects using decorators.
 - ATable This is used to map product class to any object on the backend by specifying what object you want to map it up to. For Salesforce, the object name can be added to the field sobjectName.
 - AField This is used to specify the Salesforce name of the custom field. For example: SRM_Manufacturer_c. It is not necessary to use the Salesforce syntax for the field name. You can provide a generic name. For example manufacturer.

You must specify a default value for any field created. Do not leave a blank value

- Expose This is used to specify the Salesforce name of the custom field. For example: Apttus_Config2__ComponentProductId__r. This is applicable only for a few models when trying to extend instead of using AField. You must specify a default value for any field created. Do not leave a blank value.
 - i The alias flag is turned off for all the cart services. This avoids normalization of the fields at the backend that takes a lot of processing time to convert API names to alias names. The response for all the cart actions is with API names instead of the alias name.
 - Category
 - Classification
 - PriceListCategory
 - ProductAttributeGroupMember
 - ProductAttributeGroup
 - ProductAttribute
 - ProductFeature
 - ProductGroup
 - ProductOptionGroup
 - ProductTranslation
 - Product
 - PriceListItem
 - PriceList
 - CartLineitem
 - AdjustmentLineitem
 - Incentive
 - SummaryGroup
 - · TaxBreakup
 - TaxCode
 - · Cart
 - AppliedRuleActionInfo
 - AppliedRuleInfo
 - Account
 - AssetLineitem
 - OrderLineitem
 - Order
 - QuoteLineitem
 - Quote

• Type - This is used to determine relationship types (child or lookups). It is recommended to also set the default value to 'null' on all attributes unless a default value is explicitly needed.

```
@ATable({
         sobjectName: 'Apttus_Config2__ProductConfiguration__c'
         // aqlName is optional
         // Dynamic attribute has been added to generate model at runtime
         dynamic: true
     export class CustomCart extends Cart {
         @AField({
             soql: 'Apttus_Config2_ProductId_c',
             aql: 'ProductId'
         productId: string = null;
         @AField({
             soql: 'Apttus_Config2_ProductId_r',
             aql: 'ProductId'
         @Type(() -> Product)
         product: Product = null;
         @AField({
             soql: 'Apttus_Config2_LineItems_r',
             aql: 'LineItems',
74
             expand: 'shallow'
         @Type(() -> LineItem)
         LineItems: Array<LineItem> = null;
```

Now that you have created your custom product model, mapped the typescript class to the Salesforce object Product2, and provided custom fields, you must map it back to the service. The product service looks up at the product class. You can override that using a setType method that is available on every single service. This method should be created in the constructor of the component. This changes the mapping of that service to the model that you want to use. Once this is done within your application or within your module, the method gets applied to every other component within your module. Now pass it in the class reference of the class you just created. For details, refer to the image below.

```
### Configsts in the American Configsts in t
```

Adding Custom Attributes to a Product

You can add custom attributes on any product in the product details page through the product attribute model that contains all the product attributes.

To add a custom attribute to a product

1. You must import the product attribute model from the E-Commerce library into the product attribute value service.

```
@ATable({
    sobjectName: 'Apttus_Config2__ProductAttributeValue__c',
    aqlName: 'cpq_ProductAttributeValue'
})
export class ProductAttributeValue extends AObject {
    @AField({
        soql: 'Apttus_Config2__BillingOffsetDays__c',
        aql:'BillingOffsetDays'
    })
    BillingOffsetDays: number = null;
    @AField({
        soql: 'Apttus_Config2__Color__c',
        aql: 'Color'
    Color: string = null;
    @AField({
        soql: 'Apttus_Config2__LineItemId__c',
        aql:'LineItemId'
    LineItemId: string = null;
    @AField({
        soql: 'Apttus_Config2__Vendor__c',
```

2. In the @Table decorator, you must set the Dynamic flag to *True*.

The following objects have the dynamic flag set to true, by default.

- a. ProductAttributeValue
- b. OrderAttributeValue

- c. QuoteAttributeValue
- d. AssetAttributeValue

Customizing Logic in the Services

Your application is built around the concept of Modals and Services and pairing the two to work together. You can do one or more of the following:

- · Change the modal that goes with some business logic and service
- · Change the business logic or service for a particular modal
- · Create completely new modals and new services

Customizing the Template Page with Custom Field

You can use the custom field you just created in your template.

To customize the template page

1. Go to product-details.component.ts and modify the product name with your custom field name.

```
### CONTINUES

### CO
```

2. Go to the product-details.component.html and add an entry for your custom field to be displayed on the template.

3. Your template displays the new custom field.

Search Engine Optimization

All B2C customers need the capability to publish their product list and product detail pages to Google search engine so that they can be searchable and linkable. The UI template loads data asynchronously and Angular renders the data retrieved from Salesforce.com.

Follow the steps below to enable Google search to crawl a Digital Commerce website by creating a sitemap index, dynamic sitemap's and register them with Google.

Step 1: Create a robots.txt file and set it in the Community page

```
<apex:page contentType="text/plain" showHeader="false">
User-agent: *
Disallow: /<store name>/cart?
Disallow: /<store name>/manage-cart?
Disallow: /<store name>/Orders?
Disallow: /<store name>/installed-products?
Disallow: /<store name>/my-account?
Sitemap: http://<domain>/<store name>/APTSSiteIndex
```

```
</apex:page>
```

Step 2: Create a APTSSiteIndex Visualforce page

Create a APTSSiteIndex Visualforce page that renders the XML as below.

Pre-requisite: There must be 2 existing sitemaps, one for all products and one for all categories.

Step 3: Create a APTSSiteMapProducts Visualforce page

Create a APTSSiteMapProducts VF page that will generate all the Active Products. Each Sitemap can only have 10K urls.

The APTSProduct renders the following html data.

HTML Data

```
<html>
<head>
<title>Executive Anvil</title>
<script type="application/ld+json">
  "@context": "https://schema.org/",
  "@type": "Product",
  "name": "Executive Anvil",
  "url": "https://example.com/anvil",
  "image": [
    "https://example.com/photos/1x1/photo.jpg",
    "https://example.com/photos/4x3/photo.jpg",
    "https://example.com/photos/16x9/photo.jpg"
   ],
  "description": "Sleeker than ACME's Classic Anvil, the Executive Anvil is perfect
for the business traveler looking for something to drop from a height.",
  "sku": "0446310786",
  "offers": {
    "@type": "Offer",
    "url": "https://example.com/anvil",
    "priceCurrency": "USD",
    "price": "119.99",
    "priceValidUntil": "2020-11-05"
  }
}
</script>
</head>
<body>
</body>
</html>
```

Using Custom Objects Through APIs

Digital Commerce generic APIs support custom objects by replacing the :custom_object__c with the custom object API name into the URL path as shown in the example below:

```
[GET] .../apexrest/Apttus_WebStore/apttus/v3/:custom_object__c
```

[POST] .../apexrest/Apttus_WebStore/apttus/v3/:custom_object__c /query

You need to ensure that the SDK utilizes these APIs for custom services and models by following the steps below:

- 1. Create a custom object in Salesforce and add some custom fields.
 - a. The custom object must have at least one lookup to another object.
 - b. The other object must have a lookup to this custom object as a child object. You can just enable attachments for this object.
- 2. Open a template and install the latest SDK libraries.
- 3. Create a service and model for the custom object created in step 1.
 - a. You may need to add the 'route' attribute to the ATable decorator similar to what was done in 'cart' and set it to the API name of the custom object:

- 4. Verify that all the methods within the service work:
 - a. query
 - b. where
 - c. search
 - d. aggregate
 - e. describe
 - f. get
 - g. fetch
 - h. delete
 - i. create
 - j. update
 - k. upsert
- 5. Verify that relationships work on the model.
 - a. The lookup you created in step 1 should be pulled.
 - b. The model should be able to pull the child object with attachments.

Useful Tips for Turbo Enabled Catalog

Digital Commerce catalog leverages Turbo enabled catalog APIs for better performance. For optimal results, you must keep the following in mind:

• While implementing the Digital Commerce application, you can choose the product fields based on which the catalog search works. For better performance, you must limit the number of searchable fields to 3.

- The performance may degrade if long text fields like Product Description are made searchable.
- It is recommended to keep the number of custom fields on the product model less. Too many custom fields on the product model may degrade performance.

FAQs Tips and Known Issues

This section provides answers to some of the frequently asked questions, lists few tips for usability and known issues with workarounds that exist in the application.

Frequently Asked Questions

How secure is the data stored in JavaScript cache from vulnerability? What kind of security standards are used in handling cache?

All caching happens in JavaScript memory. Hashing and compression is used with garbage collection. JavaScript memory is cleared out as soon as the user leave the browser session. We do not store any data in the local storage in browser such as cookies etc.

How is the data transmission secured between client API and Server Rest API?

Conga Digital Commerce SDK uses encrypted communication between client and server using AES 128 encryption. Also, have timestamped endpoint and are valid only for 30 seconds. If it takes more time then the request is not valid.

How is data protected from Cross site Scripting (XSS)?

To systematically block XSS bugs, Conga Digital Commerce treats all values as untrusted by default. When a value is inserted into the DOM whether it's from a template, property, attribute, binding, or interpolation, angular sanitizes and escapes untrusted values.

How is data protected from SQL Injection attack?

Digital Commerce sanitizes user input before it is converted to query and send to the server such as escape special characters etc.

How secure is the user login from Angular to Salesforce Server? How is the session's secured from any intruder attack?

Use standard salesforce standard authentication using an access token. Use standard OAuth protocol to generate an access token. Also, go through communities security for data access.

How secure are the queries triggered from Angular Client API to Salesforce for Search, Product details etc...?

All user input is sanitized and a custom parser in SDK is used to generate queries. Salesforce E-Commerce interface has further validation on SQL queries, on the server-side before data is accessed from Salesforce.

What best practices should be followed, when SDK components & services are extended or customized to avoid exposing any security vulnerability?

Setup strong security model as the salesforce org level using standard salesforce security framework (roles, profiles, permission sets etc.). SDK does not circumvent Salesforce security in any way.

Use standard SDK mechanisms for extending services, models, interface for any customization without circumventing the SDK architecture to integrate and interface with Salesforce.

Tips

Getting error while placing an order?

While placing an order, an error is displayed.

Check the following setting:

- 1. Go to **Setup** and in the **Quick Find box**, type *Custom Settings*.
- 2. Click Custom Settings and click Manage next to Config System Properties.
- 3. Click Edit next to System Properties.
- 4. Ensure that the Run Misc Finalization Task In Async Mode flag is set to False.
- 5. Click Save.

Contact Support

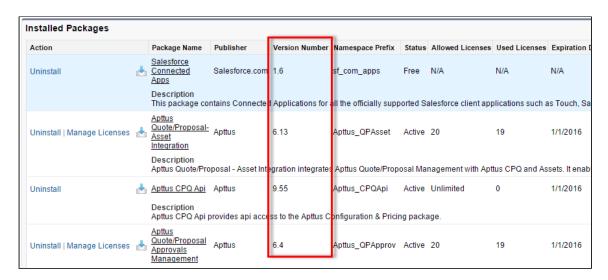
If you experience an issue with a product and need help, you can contact the Support Team. Before you contact the support team, prepare a brief description of the problem you are experiencing. Additionally, to enable us to resolve your problem at the earliest, provide the following important information:

- What is the environment in which you are experiencing the problem: Sandbox or Production?
- · How many users are affected?

Which product versions are installed?

To determine version numbers:

- 1. Go to Setup > App Setup > Installed Packages.
- 2. In the Installed Packages section, all the installed packages are displayed. You can find the version numbers in the Version Number column.



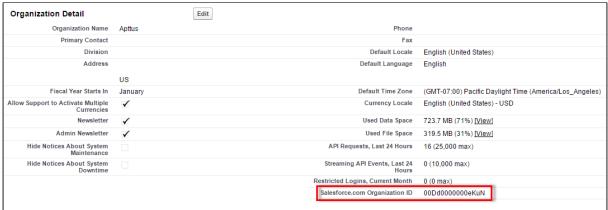
What is your Salesforce.com Organization ID?

To determine the Salesforce.com organization ID:

1. Go to Setup > Administration Setup > Company Profile > Company Information.



2. From the Organization Detail pane, provide the Salesforce.com Organization ID.



If you are having issues generating documents, what is your merge server end point?

To find the merge server end point:

- 1. Go to Setup > App Setup > Develop > Custom Settings.
- 2. Click Manage for Comply System Properties.
- 3. Click System Properties.
- 4. The Merge Webservice Endpoint field displays the setting. The https:// mergeserver.apttus.net:9876 portion of the setting is what will be helpful to customer support.

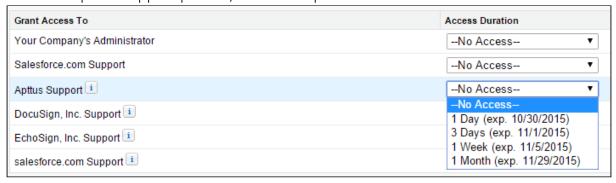
Grant Login Access of the affected user and an administrator.

To grant login access:

1. Go to Setup > Personal Setup > My Personal Information > Grant Login Access.



2. From the Apttus Support picklist, select an option for access duration.



3. Click Save.

Digital Commerce for Users

This section describes how Digital Commerce works and how customers can quickly select products and checkout having a seamless purchasing experience.

| Topic | Description |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| What's Covered | This section is designed to provide users with information on features and related user interactions to be consumed within Digital Commerce. This section covers the most common use cases for users and assumes a level of familiarity with basic Salesforce. |
| Primary Audience | End users (Customers) who want to purchase products from your storefront. |
| IT Environment | For information pertaining to the requirements and recommendations, see System Requirements and Supported Platforms Matrix. |
| Updates | For a comprehensive list of updates for each release, see What's New in Digital Commerce Documentation. |
| Other Resources | See Digital Commerce for Administrators for implementation and deployment procedure. See Digital Commerce SDK for technical instructions on the installation and setup of a Digital Commerce storefront. See Digital Commerce for REST API Developers for details of the CPQ REST APIs consumed by Digital Commerce. See CPQ documentation for detailed information on setting up the master data. |

This section describes the following tasks:

- · General Administration
- · Browsing Catalog
- · Managing Accounts and Assets
- · Product Configuration
- · Applying Promotions
- · Comparing Product Features
- · Managing and checking out the cart

Select one of the following topics for more information:

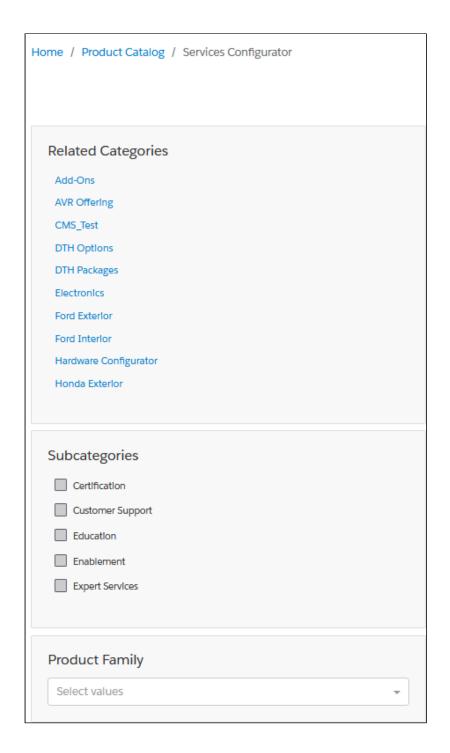
Launching Digital Commerce

- · Browsing the Catalog
- Managing Accounts
- Managing Assets
- Product Configuration
- Applying Promotions on the Products in the Shopping Cart
- Comparing Product Features
- · Managing the Cart

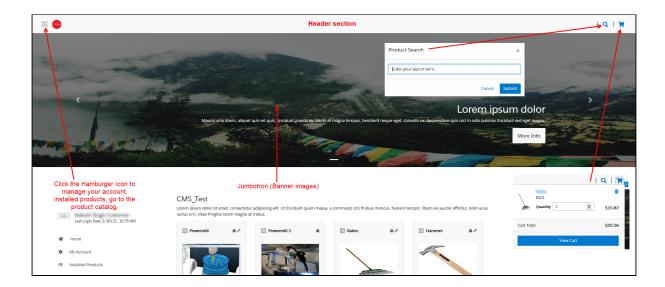
Launching Digital Commerce

When you launch Digital Commerce, the landing page appears. A landing page is the initial or main page of your storefront. You can do one or more of the following from the landing page:

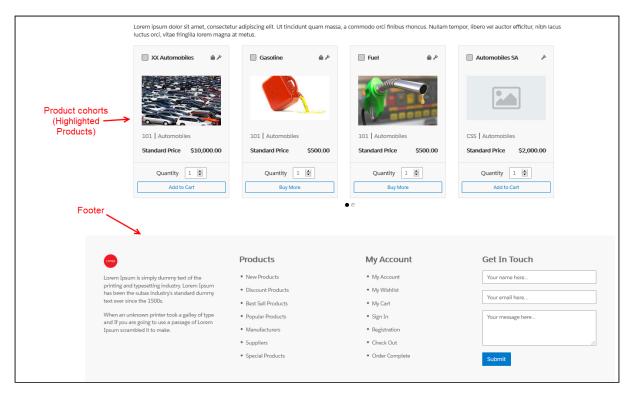
 You can quickly navigate to your product through the Category Hierarchy on the left side of the landing page. You can choose any from related categories, subcategories, or product family.



• The header section on the top provides capabilities such as Account management, managing Installed Products, product search, and mini cart.



- Jumbotron (Banner Images)
- Product Cohorts (Highlighted Products)
- · Navigate to other features through the Footer



There are two types of users who can access your storefront - **Guest User** and **Logged in User**.

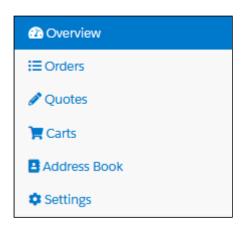
As a **guest user**, you can do one or more of the following tasks:

· Launch Digital Commerce

- · View banners and highlighted products
- · Browse the catalog page, navigate through Category Hierarchy, and add to cart.
- · Use text search to search and select a product or product family
- · View the product details along with its configuration and attachments, if any
- · Configure complex products as follows:
 - Multi-Level Bundles (Nested Bundles)
 - · Options & Attributes Configuration
 - · Product Level Attributes
 - · Option Level Attributes
- If you have Promotions enabled, you can:
 - · Auto-apply applicable promotions to the items selected in the cart
 - · View applied promotion details in cart
 - · Apply manual promotions based on coupons in the cart
- · View Constraint Rules and add to the cart from the Catalog page
- Compare more than one product features and add it to the cart directly from the Compare Products page
- · View and manage mini cart
- · Checkout of cart

As a logged in user, you can:

- · Log in to Digital Commerce
- · Access your account page to:



- · View list of orders and open them to view their details
- · View list of quotes and their details, you can also edit existing quotes
- · View Carts and their statuses
- · View all addresses in your address book
- · Use the settings option to view your account information and change password
- Browse the catalog page, navigate through Category Hierarchy, and add to cart.
- · Configure products as follows:

- Multi-Level Bundles (Nested Bundles)
- · Options & Attributes Configuration
 - · Product Level Attributes
 - · Option Level Attributes
- If you have Promotions enabled, you can:
 - · Auto-apply applicable promotions to the items selected in the cart
 - View applied promotion details in cart
 - · Apply manual promotions based on coupons in the cart
- · View Constraint Rules and add to the cart from the Catalog page
- Compare more than one product features and add it to the cart directly from the Compare Products page
- If you have Asset Based Ordering enabled, you can view assets on the catalog page through the Installed Products page. You can renew a couple of products and terminate a product. For more details, refer to Asset Based Ordering.
- · View and manage mini cart
- · Checkout of cart
- · Request a Quote

Browsing the Catalog

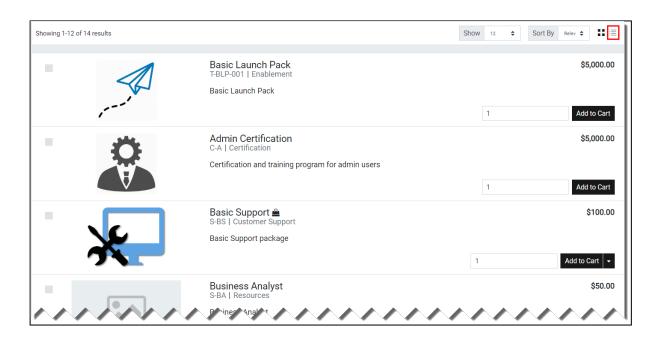
Product Catalog is a detailed list of the inventory of a store. You can view the products that your vendor supplies on the Catalog. The product catalog displays the products available for purchase and also displays their details like the product's name, price, specification. You can also add products to the cart from the catalog page. The product catalog has many features to make searching and selecting products easy for the users.

View Options

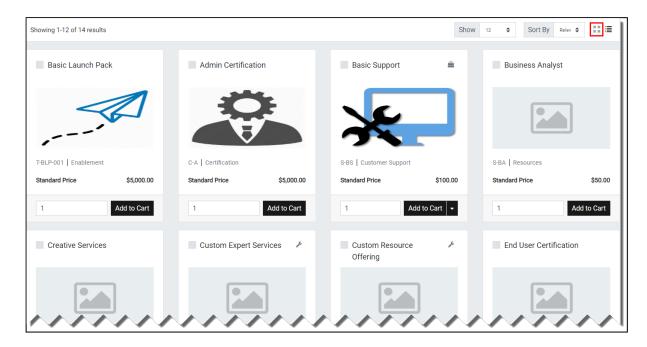
On the product catalog, you can view products in different ways. The bar on top of the catalog has two different view options:



• **List View**: To select the list view, click the list view icon from the bar above the product list. The list view displays the products in a list, under one another.

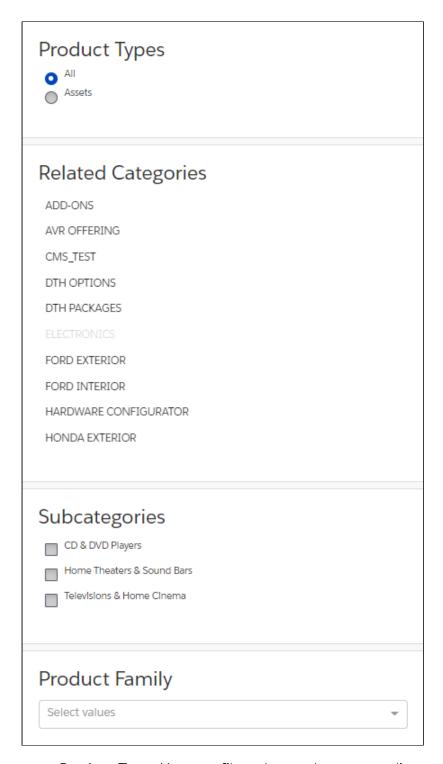


• **Grid View**: To select the grid view, click the grid view icon from the bar above the product list. The grid view displays the products side-by-side, like a grid.



Filtering Products in the Catalog

The catalog page can show the entire inventory, therefore, to find the right product you can use filters available on the catalog page. The following section describes the filters available on the catalog page.



- **Product Type**: You can filter the products according to the type of the product. You can choose from:
 - All: Choosing this option, displays all the products available in the store for purchase.
 - Assets: Choosing this option, displays the products that you have already purchased and that are your assets now.

- · Category Filtering: Using the category hierarchy you can navigate to products through the list of related categories and their subcategories. The subcategories list is displayed only after you select a category. You can go to the Product Types section and select All to view all the categories available.
- Product Family Filtering You can filter the products in the catalog by the product family that they belong to. In the product family field, use the type-ahead search to search and select the product families for filtering. You can choose multiple product families from the picklist.

Actions on the Product Catalog Page

- · Sorting: You can sort the products in the product catalog page by choosing Sort By. You can sort the product according to Name or Relevance.
- · Pagination: You can set how many products to see on a single page in the product catalog. To set pagination, go to the **Show** field on the top bar and select the value from, 4, 12, 20, and 50 products on one page.
- · Viewing product details: To view the details of any product, like its description, configurations, specifications, features, or price, click the product's name or its image.
- · Adding a product to the cart: You can click Add to Cart to add a product to your cart for purchasing. You can also specify the quantity in the Quantity field before adding the product to the cart.
- · Asset-based Ordering Actions: If the product is an asset, or you have already purchased it, you will see the following asset-based ordering actions:
 - Buy More: Adds the products to the cart.
 - · Renew: Renews the Asset.
 - · Terminate: Terminates the asset.
 - · Change Configuration: Lets you change the configuration of an already purchased asset.
- · Product Images While viewing product details, you can view product images and collateral under the Attachments tab.
- · Product Features You can view product features under the Specifications tab.

Product Carousel

On the Catalog page, all the selected products are displayed in the Product Carousel and you can compare one or more products from the product carousel.

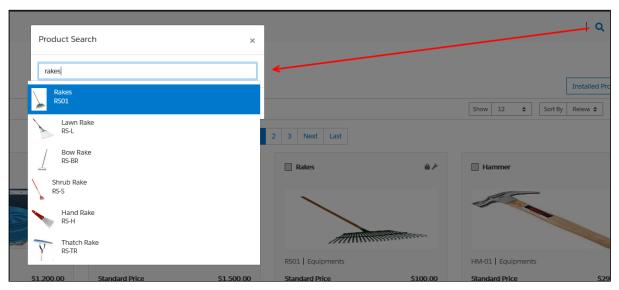


Troubleshooting

If the catalog page takes a long time to load, try clearing your browser storage.

Searching for Products

The **Search** icon on the header allows you to quickly search and choose the product you are looking for.



There are two ways you can search for a product.

- · Click the **Search** icon and use the text search to search and select a product.
- Click the Search icon and enter a few keywords or a whole keyword including space and press Enter on your keyboard. A list of products is displayed matching the entire keywords you entered.

You can select a product from the search results and click **Add to Cart** to add the product to the cart. If a product is configurable, you can configure a product with multiple options or attributes and then add the product configuration to the cart.

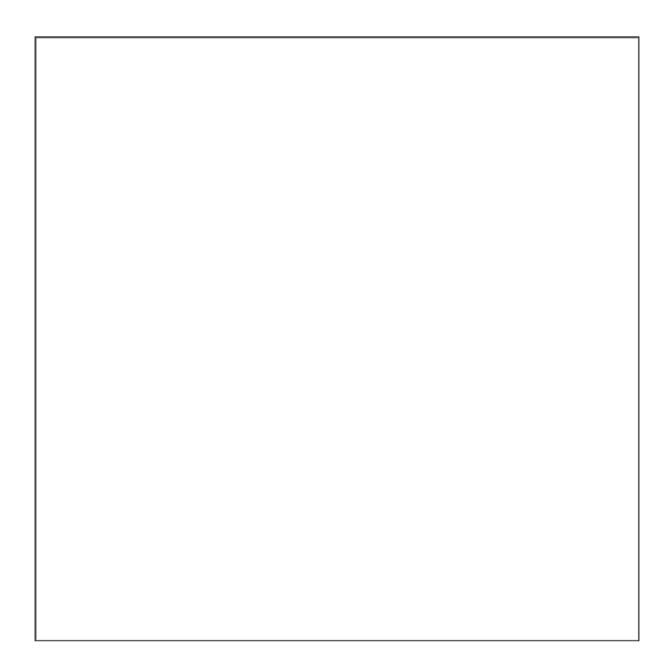
Viewing the Product Details

The Product Details page outlines the product attributes, options, and more. Click on a product name or product image to open the Product Details page. From this page, you can configure your product further with options and attributes.

 You can access the Product Details page from the Catalog, Cart, or Product Recommendation pages.

| The details tab provides complete information about the features of the product images, attachments, and collateral. | Jaact, |
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 View and configure complex products with product attributes and options. By default, the Options Group or the Attributes Group sections are displayed in expanded form wherever there is a selection. You can choose to expand or collapse as per your requirement.



| ew Price Summary for Selected Options. | | | | | |
|----------------------------------------|--|--|--|--|--|
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Viewing the Product Details Page in Embedded Mode

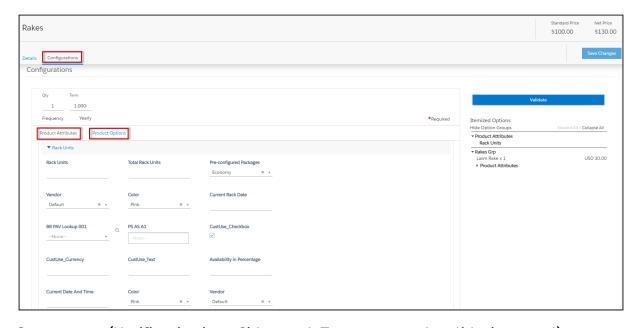
In Embedded mode. the Product Details page outlines the product configuration section in an iframe. Embedded mode is applicable only for complex products.

 You can access the Product Details page from the Catalog or Cart by clicking on the product image.

- The details tab displays the Net Price and Standard Price at the top of the details page. The price displayed is for a selected bundle along with secondary charge types.
- The Price Summary button is not available in Embedded mode.
- There is only the Save Changes button available to add the products to the cart.



- View and configure complex products with product attributes and options. Click the Validate button after every change you make to the attributes, options, or quantity.
- Save Changes button in the mini cart is disabled until the user selects a valid configuration for the product.
- Upon navigating away from the product details page having unsaved changes in the cart, a confirmation popup is displayed "You have unsaved changes to the product configuration! Are you sure you want to proceed?" If you agree, click Confirm or click Cancel to cancel the action.



Error Components (Notification icon, Side panel, Top error panel, validation panel)

- · All cart errors and errors generated due to the currently selected configuration of the product are displayed.
- · Any resolutions done in error components in all other pages except Product details page gets committed to the main cart.
- · Any resolutions done in error components in the product details page gets committed ONLY to the secondary cart.
- · Any resolutions done in validation error components in all other pages except the Product details page gets committed to both main and secondary carts.
- · Cart level resolutions from the error components immediately sync upwards into the MAIN cart.

Important

Asset Based Ordering (ABO) is not supported in Embedded mode.

You cannot add a product to the cart from the Recommended product section in Embedded mode. The only way to add a product to the cart is to click the product card that takes you to the product details page of the selected product.

For information on cart behavior in Embedded mode upon selection and updating product configuration, refer to Working with the Mini Cart.

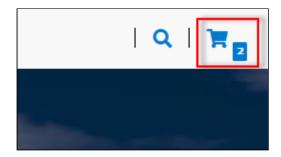
Adding Products to a Cart

While navigating the catalog, you may decide to purchase one or more products. You can add those products to the cart and revisit the cart later to see all your cart items.

To add a product to the cart

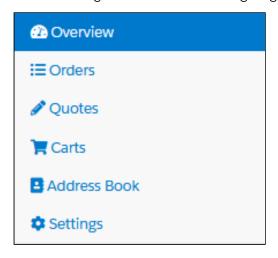
- · On the catalog page, click the Add to Cart button for the product you want to purchase. You can choose as many products to be added to the cart.
 - OR -
- · From any product detail page, click Add To Cart.

The product is added to the cart and you can view the complete list of products in the mini cart by clicking the cart icon on the top right. If you have products selected, this icon displays the number of products added.



Managing Accounts

The Accounts section contains all the information of a user on your vendor's website. You can access your account after signing in from your vendor's website.



The **Overview** section displays a dashboard with the following details:

- · Weekly Orders
- · Total Spending
- · Orders by Status
- · User Information
- · Recent Orders

The **Orders** section features the following:

- · List of Past Orders
- · Order Details
- · Order and Order Line Status

On the Carts section, you can view multiple In-progress carts and also identify the primary cart. You can also delete a particular cart from the list.

The **Address Book** section enables you to add or update addresses. You modify or delete an address. You can set an address as default.

The Settings section enables you to:

- · View Account Details
- View or modify User Information
- · Change Password

Managing Assets

Pre-requisite:

- Ensure that Enable ABO is set to true in the Storefront record to use a standard template.
- Asset Actions is set for Buy More, Change Configuration, Renew, or Terminate actions on the storefront object. This field is dependent on the Enable ABO flag.

As a Customer Service and Sales Representatives in your organization you can Renew and Terminate a customer's assets. You may even choose to Buy More for an existing asset. You can also change the configuration for an existing bundle subscription during renewal or mid-term assets from the cart.

Assets are the products or services that you have bought. You may need to modify the products that you have bought in terms of Quantity, Selling Term, or Duration. You can access all the products that you have bought from the Assets tab.

- · Asset Filtering on the Catalog page
- · View Installed Products for Account
- View the Assets By Price Type and Asset Amounts By Price Type charts on the Installed Product page
- Enable or Disable ABO on the Template
- Enable or Disable Renew or Terminate actions on the Template

Using the Standard Table and Chart Component on the Installed Product Page

The Installed Product page or Assets page lists all the installed products of the selected account. The Assets list shows the assets with the following details:

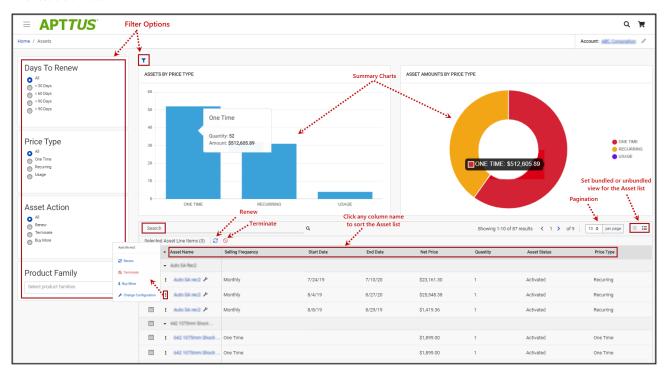
- · Asset Name
- Selling Frequency
- · Start Date

- · End Date
- · Net Price
- · Quantity
- · Asset Status
- · Price Type

From the Assets page, you can:

- View Summary Charts for Assets
- Filter an Asset
- · Search an Asset
- · Renew an Asset
- · Terminate an Asset
- · Buy More Assets
- · Change Configuration

You can also sort the asset list, set pagination, and set a bundled or unbundled view for the asset list.



Filtering Assets in the Installed Product Page

The Installed Product page can show the entire inventory of your assets; therefore, you can use the following filters available on the page to find a particular asset:

· Days to Renew

- · Price Type
- · Asset Action
- · Product Family
- Advanced Filters (T)
- · Search Assets (Search Q)
- 1 You can also use a combination of filters to refine your asset list.

Renewing an Asset

- Renew for a Standalone or a Bundle Asset from the Catalog page (Catalog, Recommendation, and Compare Products)
- · Renew for a Standalone or a Bundle Asset from the Installed Product page
- · Mass Renewal for Standalone or Bundle Assets

Terminating an Asset

- Terminate for a Standalone or a Bundle Asset from the Catalog page (Catalog, Recommendation, and Compare Products)
- Terminate for a Standalone or a Bundle Asset from the Installed Product page
- Mass Terminate for Standalone or Bundle Assets

Buy More Subscription (Increment Asset)

- Buy More for a Standalone Asset from the Catalog page (Catalog, Recommendation, and Compare Products)
- · Buy More for a Standalone Asset from the List View Catalog
- Buy More for a Standalone Asset from the Installed Products page

Changing the Configuration for an Existing Asset

You can change the configuration for an existing bundle subscription during renewal or midterm assets from the cart. You can change the configuration for Recurring Asset products (Bundles) and Usage Standalone Asset products from the cart with "Amended" status.

- The overall status for the primary bundle or standalone product is "Amended"
- You cannot change one-time options and the Line Status = "Existing"
- You can edit recurring options and Usage Standalone assets for: Quantity, Switch Options, Select Additional Options, and Attributes

- When you change the quantity or attributes for an option, the Line Status =
 "Amended"
- When you change an option, the existing option Line Status = "Cancelled" and the new selected option Line Status = "New". The Cart displays both the options with Line Status = "Cancelled" and "New" with the newly selected option within the option group.
- When you select a new option without switching an existing option, the newlyselected option is displayed in the Cart with Line Status = "New"

Product Configuration

If you have attributes or options associated with your products, you can configure them from the Catalog page. You can perform one or more of the following:

- · Configure Standalone products with Attributes
- · Configure Single Level Bundle
- · View Selected Configuration
- · Edit Configuration
- · View & Select Options
- Minimum and Maximum validation of Options for Option Groups available at the option group level only
- Minimum and Maximum validation of Product Quantity
- · Configure Nested Bundles
- Add Default Configuration from Catalog
- · Option Level Attribute Configuration
- · Attribute-Based Configuration Rules
- Hide Option Groups and Options You can completely hide an option group and its options within it from the user interface.
 - Select the Is Hidden flag from the Option Group Configuration page to hide option groups.
 - Use the exclusion type constraint rules to hide excluded options from the list. You must set up the Action Intent as Hide in the Constraint Rule Action.
- Modify Option Groups and Options Within a Bundle Configuration In a Bundle configuration, from the Option Group configuration, you can now select Modifiable Type setting with values Fixed and Variable.
 - Selecting Variable enables you to change the quantity of the option products while configuring the product.
 - Selecting Fixed restricts you from changing the quantity of the option products inside the parent option group.

- · Setting the modifiable type setting to Fixed or Variable impacts only on immediate options. There is no impact on the sub option groups. This setting has to be done on each level. This also overrides minimum and maximum validation. In case you select an option group with Modifiable Type as Fixed, the quantity input box of the immediate option(s) is disabled. The quantity displayed is the default value and in case you do not set the default value, the quantity is 1.
- · Set the Required Checkbox for Options When you select the **Required** flag for an option product in CPQ, it is considered in Partner Commerce. When you select the **Required** checkbox, it is selected by default in the configuration.



If there is a minimum quantity of 0 specified on the required option, the minimum quantity is ignored. then we ignore the min qty. The default quantity is I and you cannot change the quantity to 0.

To set up the action intent as hide in the constraint rule action

- 1. Go to Setup > Create > Objects > Constraint Rule Action and Action Intent.
- 2. From the **Values** related list, click **New**.
- 3. Enter Hide as a picklist value and click Save.
- 4. On the Action Intent details page, from the Picklist Options related list > Controlling Field > click [Change] next to Action Type.
- 5. From the Exclusion column, double-click **Hide** and click **Save**.



Do not select **Hide** for any other action types.

Supported Capabilities in Digital Commerce

Digital Commerce supports the following capabilities:

Product Attribute Rules

You can configure product attribute rules for attributes with the following action types and have them displayed on the product details page.



The scope must be Product and Product Family. Criteria is not supported at present.

Allow - To restrict the visibility of values on the target field.

- · Default To add a default value on the target attribute.
- · Hidden To hide the target attribute.
- · Disabled To make the target attribute as a read-only field.
- Required To make the target attribute as a required field.
- Reset To auto-populate a default value on the target attribute if the field is left blank.

Attribute Value Matrix

You can configure the attribute value matrix with the following application types and have them displayed on the product details page.



The scope must be Product and Product Family. Expressions are not supported at present.

- Default Enables you to select the picklist values, which you have configured as default values in Matrix View. The rest of the values are visible in the drop-down list, but you cannot select any of them on the Cart.
- Constraint Enables you to select only those picklist values, which you have configured in Matrix View. All the other values are disabled in the drop-down list on the cart. This also works with the multi-select picklist.
- Force Set Enables you to automatically set the picklist values, which you have configured in Matrix View (considering the last user selection). As soon as you change the attribute value for one attribute, the system sets values for other attributes.

Option Configuration

The minimum and maximum options configuration works at all levels of option groups. In Digital Commerce, only three levels are supported. Also, the minimum and maximum product quantity and total quantity validation work for all levels of option groups.

Constraint Rules

Constraint Rules are supported for standalone, bundle, and option products for basic inclusion, exclusion, and recommendation type rules.

Product level

When you click Add to Cart, Digital Commerce triggers the constraint rule on the Catalog page and product details page where a pop-up is displayed and applies the rule to a product. Moreover, when you hover the mouse on the Add to Cart button, Digital Commerce displays the rule dialog with inclusion and exclusion products. When the inclusion and exclusion rule is triggered, an error message is displayed on the Cart page. Clicking the warning icon against the error message displays the error message in a panel. The scope must be Product, Product Family, and Product Group in constraint rules conditions and constraint rules actions both.



🔔 All rules are applied only when you have selected the Match in Primary checkbox.

Inclusion and Exclusion Rules

The following are the supported types of Action Intent:

- Auto Include
- · Disable Selection
- · Show Message
- · Prompt (as per design, displays an error message) acts similarly as Show Message in case of Catalog products.

The inclusion and exclusion rule matches when the scope is Product Family or Product Group. The minimum and maximum match rule for Inclusion must have Include All, Include Any, and Include Min/Max as the rule values. For exclusion type rules, the rule values must be Exclude All, Exclude After One, and Exclude After Max. Error and Warning both are supported. There is no message for successful inclusion of the product; the product is automatically included. In case of Disable Selection action intent, the Add to Cart button is disabled with a pop-up message.

Product Options level

The constraint rule is triggered on the product details page where a pop-up dialog is displayed upon selecting an option product. On the Cart page and product details page, an error message or warning is displayed when the product is added to the cart directly. The scope must be Product, Product Family, and Product Group in constraint rules conditions and constraint rules actions. Product Option Group is not supported at present.



🔔 All rules are applied only when you have selected the Match in Options checkbox and a combination of the Match in Primary and Match in Options checkboxes.

The constraint rule matches when the scope is Product Family or Product Group. The minimum and maximum match rule for Inclusion must have Include all and Include Any. For exclusion type rules, the rule values must be Exclude all and Exclude any. Error and Warning both are supported. There is no message for successful inclusion of the product. Multiple actions are not supported at present.

Sub-bundle

Sub-bundles created up to level 3 are performance compliant.

Recommendation Rule

Recommendation type rules are displayed on the product details page and cart page. Action Intent is not supported. Multiple AND conditions are supported only within condition association.

Application of Constraint Rules

Constraint Rules function in Native UI

Pre-requisite:

- Constraint rules must be working correctly in Quote/Order UI in standard CPQ
- · Constraint Rule Execution Mode in custom settings must be set to 'Server'

Constraint Rules are configuration rules that are applied to a product or a set of products during the quoting process. Constraint rules are configured for the conditional addition of a product to a quote or conditional blocker of product additions to a quote. You may see Constraint Rules popups on mouse over on the catalog page.

For example, when Product A is added to the cart, Product B may be automatically added based on an auto-inclusion type rule. Similarly, when Product B is added users may be prevented from adding Product C.

You can set up multiple AND conditions in a Constraint Rules criteria, including bundle in any of the conditions. Only ALL is supported at present. You can associate an option with a bundle along with Match in Options, Match in Primary (in case of bundles), or both. Inclusion and Exclusion rules are also supported. For example: If [Option A] AND [Bundle X] (Parent Bundle] THEN Auto Include [Option B].

Inclusion type rule is used to add a product to the cart.

· Inclusion Rule for Standalone Products

· Inclusion Rule for Options Products

Exclusion type rule is used to exclude or prevent the addition of a product to the cart

- Exclusion Rules for Standalone Products
- Exclusion Rules for Options Products

Recommendation Rules for Option Products - With these rules set up, based on your selection, you may see product recommendations.

Minimum and Maximum Product Validation Support

The minimum and maximum options configuration now work at all levels of option groups. Also, the minimum and maximum product quantity validation now work for level 1 of option groups. The product details page and the Cart details page also show validation errors for the unfulfilled minimum and maximum options configuration. The **Add to Cart** button on the product details page and the **Place Order** button on the cart details page is disabled until you resolve all the validation errors.

Behavior of Constraint Rule when configuring Include Any for Scope = Product Group or Product Family

If you configure Include Any in Constraint Rule for Scope = Product Group or Product Family, an error message is displayed on adding more than one option from the selected product group or product family to the cart. The selected option is not displayed in the side navigation bar for resolving the error. You must manually resolve the error from the Product Details page.

Validate Changes

While in Embedded mode, if you change attribute or quantity or prompt action from constraint rules on the product details page, you must click the **Validate** button for the changes to take effect.

Attribute Based Configuration Rules

Attribute-Based Configuration Rules consist of Attribute Constraint Rules and Attribute Value Matrix. It also supports the following to make navigation easier:

- Support Lookup Attributes for Product Configuration that allows to configure and select attributes of type lookup (reference fields) for standalone and bundle products/ options
- Lookup component that can be used as an input field for single select or multi-select lookup fields. For example Account Selection, Product Selection, Primary Contact Selection, Ship to Selection, Bill To Selection (Single Select) and Lookup Attributes on the product details page

 Lookup Quick View Popup for Selected lookup Value shows a quick preview for lookup fields for the selected lookup values. For example Account Selection, Primary Contact Selection, Ship to Selection, Bill To Selection (Single Select), Order Header, Quote Header, and Product Details.

Attribute Constraint Rules

You can execute the Attribute-based constraint rules on the template for Standalone products and bundles that have attributes. This enables you to select the right configuration.

You can use one or more of the following Attribute Constraint Rules:

- · Attribute Rules for Standalone product with attributes
- Attribute Rules for Bundle level attributes
- · Attribute Rules for Bundle Option level attributes

The scope type for Attribute-Based Configuration Rules are:

- · Product Family
- · Product Group
- Product

The action type (constraint type) for Attribute-Based Configuration Rules are:

- · Allow Restricts the visibility of values on the target field.
- Default Adds a default value on the target attribute. This value can be changed later.
- · Hidden Hides the target attribute.
- Disabled Makes the target attribute as a read-only field.
- Required Makes the target attribute as a required field.
- Reset Auto-populates a default value on the target attribute if the field is left blank. This is the same as default and changes disabled.

Attribute Value Matrix

You can execute the Attribute Matrix-based constraint rules on the template for Standalone products and bundles that have attributes. This enables you to select the right configuration.

You can use one or more of the following Attribute Value Matrix criteria:

Attribute Value Matrix for Standalone product with attributes

- · Attribute Value Matrix for Bundle level attributes
- · Attribute Value Matrix for Bundle Option level attributes

The scope type for Attribute Value Matrix is:

- · Product Family
- Product Group
- Product

The application type for Attribute Value Matrix is:

- Default: Sets the default value of an attribute when criteria are met and the user selects the attributes
- · Constraint: Restricts picklist, Multipicklist values of attributes based on the matrix
- ForceSet: Sets single or multiple values of the attributes based on the matrix

Supported Features in Digital Commerce with Embedded UI

The following table lists the availability of features and capabilities supported in CPQ Config UI vs Embedded UI.

| Feature | Capability | CPQ Config UI | Embedded UI | |
|------------------|----------------------|---------------------|------------------|------------------|
| | | | Client- Side | Server Side |
| Constraint Rules | Inclusion rules | Yes | Yes | Yes |
| | Exclusion rules | Yes | Yes | Yes |
| | Validation rules | Yes | Yes (Limited) | Yes (Limited) |
| | Recommendation rules | Yes | Yes | Yes |
| | Replacement rules | Yes | Yes (Limited) | Yes (Limited) |
| | Product scope | Yes | Yes | Yes |
| | Product Group scope | No | No | No |

| Feature | Capability | CPQ | Embedded UI | |
|---------------|-----------------------------------|--------|-----------------|----------------|
| | | Config | Client- Side | Server Side |
| | Product Family scope | Yes | Yes | Yes |
| | Product Field-set scope | Yes | Yes | Yes |
| | Product Option Group scope | Yes | Yes | Yes |
| | Match in Primary Lines or Options | Yes | Yes | Yes |
| | Match in Location | Yes | Yes | Yes |
| | Match in Asset | Yes | Yes | Yes |
| | Match in Cart Options | Yes | Yes | Yes |
| | Repeat Inclusion | Yes | Yes | Yes |
| | Condition Association | Yes | Yes | Yes |
| | Condition Criteria | Yes | Yes | Yes |
| | Action Criteria | Yes | Yes | Yes |
| | Match in Related Lines | No | No | No |
| | Is Bundle Context | No | No | No |
| Option | Min/Max Options | Yes | Yes | Yes |
| Configuration | Min/Max Total Quantity | Yes | Yes | Yes |
| | Is Hidden | Yes | Yes | Yes |
| | Is Picklist | Yes | Yes | Yes |
| | Modifiable Type | Yes | Yes | Yes |

| Feature | Capability | CPQ Config | Embedded | I UI |
|-------------------------|---------------------------------------------------------------------|---------------|-----------------|----------------|
| | | UI | Client- Side | Server Side |
| | Option Sequencing | Yes | Yes | Yes |
| | Default / Required Option | Yes | Yes | Yes |
| | Inclusion criteria | No | No | No |
| | Min/Max Quantity | Yes | Yes | Yes |
| | Quantity - Default /Modifiable | Yes | Yes | Yes |
| | Quantity - Auto Update | Yes | Yes | Yes |
| | Allow Cloning | Yes | Yes | Yes |
| | Config Type | No | No | No |
| Manage Attributes | Attribute - Read Only / Hidden / Primary | Yes | Yes | Yes |
| | Two-column Attribute Display | Yes | Yes | Yes |
| | Three column Attribute Display | Yes | Yes | Yes |
| Product Attribute Rules | Product Scope | Yes | Yes | Yes |
| Rutes | Product Family Scope | Yes | Yes | Yes |
| | Product Group Scope | Yes | Yes | Yes |
| | Location Scope | Yes | No | No |
| | Filter Criteria | Yes | Yes | Yes |
| | Action Types (Allow, Default, Hidden, Disabled, Required, Reset) | Yes | Yes | Yes |

| Feature | Capability | CPQ Config | Embedded | Embedded UI | |
|-------------------------------|--------------------------------------------------------------------------------------------|---------------|-----------------|----------------|--|
| | | UI | Client- Side | Server Side | |
| | Product Attribute Value | Yes | Yes | Yes | |
| | Line Item | Yes | No | No | |
| | Product | Yes | No | No | |
| | Pricelist | Yes | No | No | |
| | Product Configuration | Yes | No | No | |
| Attribute Value | Product Scope | Yes | Yes | Yes | |
| T lacified | Product Family Scope | Yes | Yes | Yes | |
| | Product Group Scope | Yes | Yes | Yes | |
| | Location Scope | Yes | No | No | |
| | Application Type - Default | Yes | Yes | Yes | |
| | Application Type - Constraint | Yes | Yes | Yes | |
| | Application Type - Force Set | Yes | Yes | Yes | |
| Field Expressions / Rollup | Evaluation Context - Constraint Rule action, Record Update, Default Quantity, Rollup | Yes | No | No | |
| | Update Product Attribute and Line Item object fields | Yes | Yes | Yes | |
| | Rollup Group By Field - Line Item, Product Attribute | Yes | Yes | Yes | |
| Callbacks | Option Filter Callback | No | Yes | Yes | |

| Feature | Capability | CPQ Config UI | Embedded UI | |
|---------|---------------------------------------------------|---------------------|-----------------|----------------|
| | | | Client- Side | Server Side |
| Others | Formula field support (Condition/action) | Yes | No | No |
| | Lookups (Example: Attributes) | No | Yes | Yes |
| | TurboConfig Data Sync | Yes | No | No |
| | TurboPricing Integration | No | No | No |
| | ABO Flow support | No | No | No |
| | Service CPQ | No | No | No |
| | Multi-language support: For products & categories | Yes | No | No |

Supported Features in Digital Commerce With TurboPricing Integration

The following table lists the availability of features and capabilities certified with TurboPricing Integration. For detailed information on the listed features, refer to the *CPQ Administrator Guide*.



Other TurboPricing features may work but they are not certified yet.

| Feature | | Sub-Feature | Available |
|----------------------------------|--|----------------------------------------|--------------|
| Price Bundle Pricing Calculation | | Price included in bundle set at PLI | Yes |
| Odicatation | | Price included in bundle set at Bundle | Yes |
| | | Price Adjustments at Bundle | Yes |
| | | Base Price Adjustment | Yes, limited |

| Feature | Sub-Feature | Available |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| | Base Price Override | Yes, limited |
| | Rollup method Flat at Bundle level | No |
| | Rollup method Per Unit at Bundle level | No |
| | Auto sequencing of options | No |
| | Contract pricing when the same option exists in multiple bundles | No |
| Defaulting Qua | ntity Defaulting quantity for Bundles/Multiple Charges | Yes |
| | Defaulting quantity FROM Product Attribute | No |
| | Default quantity derived FROM Advanced Formula | No |
| Defaulting Term | Defaulting term for Bundles/Multiple Charges | No |
| Selling Term | Use Case When using Selling term, Start Date, and End Date: If you want the selling term to be calculated based on the End Date, the Selling Term must be explicitly set to Null. If you want the End Date to be calculated based on the Selling Term, you must only set the Selling Term and the Start Date. | Yes (Limited) - Not supported with SDK integration |

| Feature | | Sub-Feature | Available |
|-----------------|--------------------------|-----------------------------------------------------------------------------------|--------------|
| Price List Item | Price Method | Use of Tiered Rates | No |
| | | Use of Per Unit Price method | Yes |
| | | Use of Flat price Price method | Yes |
| | Frequency | Use of Daily Frequency | No |
| | | Use of Weekly Frequency | No |
| | | Use of Frequencies Monthly, Quarterly, Half Yearly, Yearly | Yes |
| | | Use of any Custom Frequency | No |
| | Price Type | Use of Price Type - Included Usage | Yes |
| | | Use of Price Type - One Time | Yes |
| | | Use of Price Type - Per unit | Yes |
| | | Use of Price Type - Usage | Yes |
| | | Use of Price Type - Recurring | Yes |
| | Lineltem Update | Read-only quantity | No |
| | | Read-only Selling term | No |
| | Setting | Price List Item Setting | Yes, limited |
| Price Methods | Proration | Allow Proration set on PLI | Yes, limited |
| | | This works when the Selling TermNull on the line item. | |
| | Price Method Per Unit | Use of Price Method Per Unit | Yes |

| Feature | | Sub-Feature | Available |
|-----------------|----------------------------|------------------------------------------------------|-----------|
| | Price Method Flat Price | Use of Price Method Flat price | Yes |
| Pricing Methods | Min/Max Price | Min/Max Price applies to BasePrice | No |
| | | Min/Max Price applies to BaseExtendedPrice | No |
| | | Min/Max Price applies to ExtendedPrice | No |
| | Price Ramps | Use of Price Ramps | No |
| | | Use of Auto Ramp creation | No |
| | | Use of Price ramp overlap | No |
| | | Use of Price Escalators | No |
| | Defer Pricing | Defer Pricing | No |
| Cost Models | Cost Models | Cost Models | No |
| Conversions | Currency Conversion | Use of Multi-Currencies | No |
| | | Use of Dated Exchange Rates | No |
| | | Disable Currency Conversion Rate for a Price List | No |
| | | Currency conversion enabled at a rule see level | No |
| | UOM Conversion | Use of UOM Conversions | No |
| | | Use of Product specific conversion rates | No |
| | | Use of Product Family-specific conversion rates | No |

| Feature | | Sub-Feature | Available |
|-----------------|--------------------------------|---------------------------------------------------------------------------------|-------------------------------------|
| Price Method | Price Method | Use of Price Method Percentage | No |
| Related Pricing | Related Pricing | Use of Related Price Lists in Pricing | No |
| | | Source PLI set on Related Price List Item | No |
| | | Source product and charge typeset on Related Price List Item | No |
| | | Source product group and charge typeset on Related Price List Item | No |
| | | Source product family and charge typeset on Related Price List Item | No |
| | | Source Custom Group and charge typeset on Related Price List Item | No |
| | Adjustments in Related Pricing | Adjustment defined on PLI | No |
| | Retuted Fricing | Adjustment defined on Related Price List | No |
| Price Rule Set | Header Scope and Criteria | Use of Effectivity period and Active flag | No |
| | Criteria | Use of Scope Fields - price list, charge type, product family, product category | Yes (Except Product Category) |
| | | Use of Advanced Criteria | No |
| | | Use of Advanced Criteria with Line Item Reference Fields | No |
| | | Use of Wildcards in Advanced Criteria | No |
| | | Application Level Bundle or Line Item | Yes |
| | | Application Level Aggregate | No |

| Feature | | Sub-Feature | Available |
|---------|--------------------------------|-------------------------------------------------------|--------------|
| | | Use of StopProcessingMoreRules flag | No |
| | Dimension based Price Rules | Use of StopProcessingMoreRules flag | No |
| | | Use of Adjustment applies to - Base Price | Yes |
| | | Use of Adjustment applies to - Base Extended Price | Yes |
| | | Use of Adjustment applies to - Extended Price | Yes |
| | Criteria based Price | Use of StopProcessingMoreRules flag | No |
| | Nutes | Use of Adjustment applies to - Base Price | Yes |
| | | Use of Adjustment applies to - Base Extended Price | Yes |
| | | Use of Adjustment applies to - Extended Price | Yes |
| | | Match in Product Group | No |
| | | Match in Asset | No |
| | Constraint Rule | Auto Include rules | Yes |
| | | Replacement rules | No |
| | | Recommendation rules | Yes |
| | Multiple Criteria | Multiple Rule Entry Criteriα | Yes |
| | Price Matrix | Price Matrix | Yes |
| | | Condition/Dimension | Yes, limited |

| Feature | | Sub-Feature | Available | |
|-----------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------|--|
| | Price Rule Entry | Effective Dates | Yes | |
| Price Dimension | Use of Un-supported Price Dimension Types | Use of Un-supported Price Dimension Types - any type Except Line Item, Product Attribute, and Formula Field | No | |
| | Use of Custom Price Dimension Types | Use of Custom Price Dimension Types | No | |
| | Service CPQ | Service CPQ | No | |
| Adjustments | Manual Adjustments | Line level adjustments | No | |
| | Adjustifierits | Bundle Effective Adjustments (Group Adjustment) | Yes, limited | |
| | | Group adjustment spread | No | |
| | | Line-level adjustment of usage price tiers | No | |
| | | Usage Tier Modifiable | No | |
| | | Misc Charge Types | No | |
| | | Conditional Charge Type | Yes | |
| | Adjustments | Adjustment Bucketing | No | |
| | | Ability to create multiple Adjustments | No | |
| | | Auto-refresh Usage price tiers | No | |
| | | Bundle only adjustments | Yes | |
| | Bundle/Option level manual Adjustments | Line-level adjustments | No | |

| Feature | | Sub-Feature | Available |
|------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------|
| | Bundle/Option level Adjustments | Group adjustments | No |
| Asset-Based Pricing | Assets | Assets | No |
| Incentives | Other application types except for Promotion | Use of Price Program, Loyalty, Rebate, Milestone Incentive or Custom | No |
| | Promotions applied on Line Item and Summary Group | Promotions applied on Line Item and Summary Group | Yes (Except Summary Group) |
| | Promotions applied on other items | Promotions applied on other items except for Line Item and Summary Group | No |
| | Promotion | Single Rate Type Promotion | Yes |
| | | Apply Coupon | Yes |
| | | Multiple Promotions | Yes |
| | Support for Promotion type - Buy X Get X and Buy X Get Y | Promotion with Product Scope as Include (AND) | Yes |
| | | Single Rate Type Promotion | Yes |
| | | Single Rate Type Promotion with Coupon | Yes |
| | | Single Rate Type Promotion with Different Adjustments Applies to values | Yes |
| | | Single Rate Type Promotion with Criteria | Yes |

| Feature | | Sub-Feature | Available |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------|
| | Support for other Promotion types - except Own every X Get Y, Support for Promotion types - except Own every X Get Y | Support for other Promotion types - except Own every X Get Y | No |
| | Incentive Limits | Support for Promotion Limits | No |
| | Incentive Coupons | Support for Coupon Limits | No |
| | Sales Promotions | Sales Promotions | No |
| | Advanced Criteria set in Price Ruleset | Support for Incentive Criteria on Price Ruleset | No |
| | Advanced Criteria with Reference Fields on Price Ruleset | Advanced Criteria with Reference Fields on Price Ruleset | No |
| Quotes | Quote collaboration | Quote collaboration | No |
| Carts | Favorite Configurations | Use of Favorite Configurations | No |
| | Smart Carts | Use of Smart Carts | No |
| | Submit for Approval | Submit for Approval | No |
| | Copy | Copy products | No |
| Cart Line Item | Revalidate | Revalidate | No |
| Totaling and Summary Groups | Adhoc Totaling | Adhoc Totaling | No |
| Deal Guidance | Deal Guidance | Deal Guidance | No |

| Feature | | Sub-Feature | Available |
|---------------------------------------------------------------------------|--------------------|-----------------------------------|-----------|
| Callbacks | Callbacks | Pricing Callback | No |
| | | Validation Callback | No |
| | | Cart Approval Callback | No |
| | | Advanced Approval Callback | No |
| | | Loyalty Cycle Callback | No |
| | | Bulk Loyalty Point Callback Class | No |
| | | Adjustment Spread Callback | No |
| | | Loyalty Point Callback | No |
| | | Related Pricing Callback | No |
| | | Pricing Extension Callback | No |
| User Experience Bundle-specific option line item update Lineltem Update | Read-only quantity | No | |
| | · . | Read-only selling term | No |
| | LineItem Update | Line level adjustments | No |
| | | Group adjustments | No |
| | Turbo Pricing | Pricing Fallback | Yes |
| | | Pricing Failure (Retry mechanism) | Yes |

Applying Promotions on the Products in the Shopping Cart

Pre-requisite:

- · Promotions must be working in core CPQ / Order Management Setup.
- Ensure that Enable Promotions is set to true in the Storefront record

A promotion is a marketing technique that you apply to reduce the list price of a product or a service. You can create such a promotion and restrict the scope, limit, and benefits so your sales representatives apply this promotion to specific products, for specific customers, and for a limited period.

- · Apply Automated Promotions in Cart
- Apply Coupon Based Promotions in Cart
- · Apply Multiple Promotions to a cart line item
- · View all Applied promotions for a given Cart
- \cdot View Details of applied promotions for a line item in the cart
- · View Promotion details at the line item level for a given promotion
- · View Total Promotion Discount on the cart
- Enable Disable Promotions on the Template

The promotions package is available as an add-on with the CPQ license and package. To install Promotion Management, see the *Implementation and Deployment Guide*.

You can define Promotions using Promotions admin. For details, refer to *Defining a Promotion* in the *CPQ on Salesforce Administrator Guide*.

Promotions may include discounts or offers that can be given to the customers to increase sales and promote the products. Promo Code is a code to activate discounts or offers, pertaining to a promotion, on your merchant's Webstore. Once you have finalized your cart, you can enter the Promo Code and activate a promotion.

For example, your merchant provides a 10% discount on your final price on Good Friday. You must enter the promo code provided by your merchant to avail 10% discount on your final price.

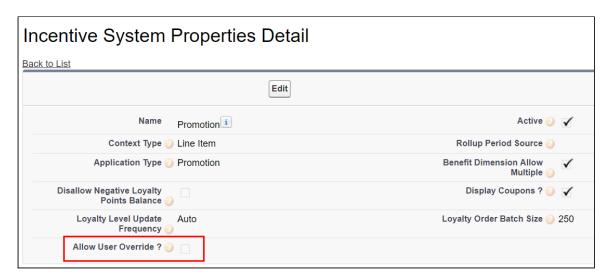
To apply promo code

- 1. After you have finalized your cart, in the Promotions section, enter the Promo Code.
- 2. Click Apply.

A given promotion can be applied to one or more line items in a cart. Promotion can be automatically applied to the cart line items on pricing or can be manually applied by providing coupon codes depending on the type of promotion.

Ensure the following custom Setting for Promotions for using Coupon Based Promotions under Incentive System Properties:

Allow User Override = False



For Manually applied promotions, "Coupon Codes" are stored in the "Product Configuration" object. After setting the value in the "Coupon Codes" field and running the update price, promotions are applied. Each Line Item aggregates the total promo adjustment amount applied from one or multiple adjustment line items in the field "Incentive Adjustment Amount". If a single promotion is applied, the promotion code is also stored at the line item level, in the "Coupon Code" field. Details of the promotions applied are captured in the "Adjustment Line Item" object which is a child object of the "Line Item" object. It contains the following critical details: Promotion applied, which line item applied to, promotion amount, promotion code.

Comparing Product Features

Product comparison allows you to compare features of multiple products on the catalog page enabling you to narrow down to products that best fit your needs. You can select more than one product and compare product features in the catalog. A page appears listing the selected products and its features in a tabular form for you to review, compare, and make your decision to purchase.

- · Select products for comparison from Catalog
- Compare product features for up to 5 products in the compare screen
- · Add to Cart from Compare Products screen
- · Allow compare only for the products with product features

As a guest user, you can only view the comparison of product features.

As a logged user, you can view the comparison of the product features and choose to add the product to the cart directly from the comparison page.

Managing the Cart

You can see the cart details after logging into the application. The Carts home page or My Carts page lists all carts that you have created for the selected account. The cart list shows the carts with the following details:

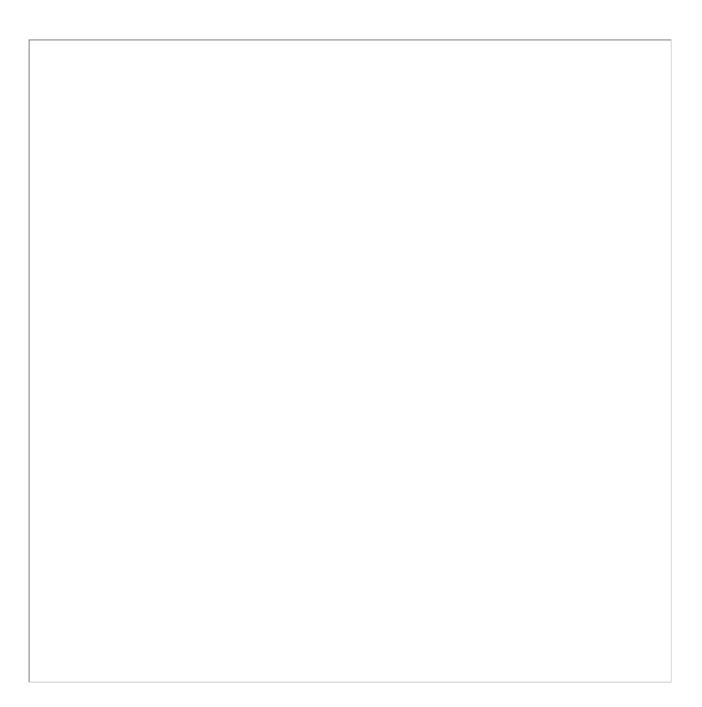
- · Configuration Name
- · Created Date
- · Number of Items
- Is Active
- · Total Amount
- Status

From the My Carts page, you can:

- · Create a cart: You can create a cart by clicking New Cart.
- Search a cart: You can search for the cart to refine the cart list. Enter a keyword related to the configuration name. It displays all carts that contain that keyword.
- Delete a cart: Select a particular cart from the list and then:

| Click the more icon > select Delete option. |
|---------------------------------------------------------------------------------------------|
| or |
| Select a particular cart from the list > click the delete \square icon. |
| Set a cart as active: Select a particular cart from the list > click the more \Box icon > |
| select the Is Active option to make that cart as a primary cart. The active cart is |
| highlighted with a green color. |

- Sort the cart list: You can sort the cart list by clicking the column names.
- Set pagination: You can set how many carts to be displayed on a single page. To set pagination, go to per page field on the top right bar and select the value from 10, 20, 30, and 40 carts per page.



Performing Asset Based Ordering actions for Installed Products on the Cart page

You can perform all the Asset Based Ordering action (Renew, Terminate, Buy More, and Change Configuration) for installed products on the Cart page.



A You cannot perform Asset Based Ordering (ABO) actions on Onetime products. By default, ABO actions are disabled for Onetime Products. You can perform only Buy More action for the Onetime products.

View Cart

| Click the cart icon on the top right of the storefront and then click View Cart button to view the full cart. You can do one or more of the following from the full cart: | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| | | |
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| | | |

• View the complete list of selected products on the cart or from the mini cart

- · Change quantities
- · Change Start Date and End Date for Subscriptions
- · Delete Items
- · Navigate to the Product Details page
- View product summary/totals
- · Update price

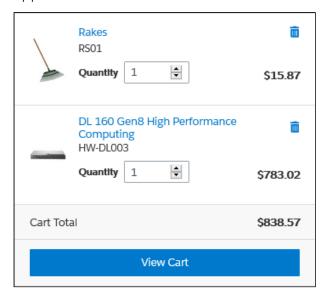
| • | View | configuration | details |
|---|------|---------------|---------|
|---|------|---------------|---------|

- Request a Quote
- Manage Payments

- · View tax details
- Change language and view translated data

Working with the Mini Cart

While navigating the catalog, at any time if you want to quickly view your selected products, click the mini cart icon on the top right of the storefront. The mini cart appears.



From the mini cart, you can:

- · View selected products
- · Delete items in the cart
- · Change quantity
- · View the full cart

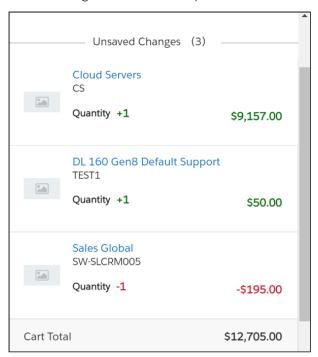
Mini Cart in Embedded Mode

When you select a product from the catalog, the product details page appears. The mini cart displayed in Embedded mode is different. With the Embedded mode, there are two carts available, Main Cart and Secondary Cart. The main cart is the primary cart; whereas the secondary cart is the cart that shadows changes in the main cart and also holds the product being configured as a line item. Any changes to the main cart either manual or automatic (based on rules) are synced to the secondary cart immediately.

Except for the product details page, the mini cart displays only the main cart items.

On the product details page, the mini cart in embedded mode displays:

- Every time the product details page is loaded, the secondary cart is re-synced from the main cart.
- · Quantity fields are read-only.
- Delete buttons are not available next to the line items
- Main Cart items + Unsaved changes sections are displayed where unsaved changes are the difference between secondary and main cart.
- · Line items removed from the main cart are shown in negative quantity.
- The count of changed cart line items is displayed on the Unsaved Changes section header.
- Save Changes button is displayed as long as any unsaved change present. Save changes button is active or disabled depending on the validity of the selected configuration.
- Cart total displays the combined total of the secondary cart (main cart + unsaved changes).
- Save Changes button in the mini cart is disabled until the user selects a valid configuration for the product.



From the embedded mode mini cart, you can:

- · View selected products displayed in the Unsaved Changes section (secondary cart).
- View selected products displayed in the main cart upon clicking Save Changes.
 Standalone products are directly added to the main cart.
- · View the full cart

Requesting a Quote

Digital Commerce enables you to request a quote instead of placing an order directly. This enables you to get better pricing and product configuration.

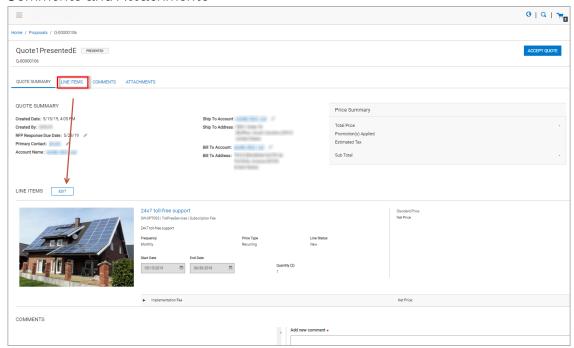
Pre-requisite:

• Ensure that Enable Request Quote is set to true in the Storefront record to use a standard template.

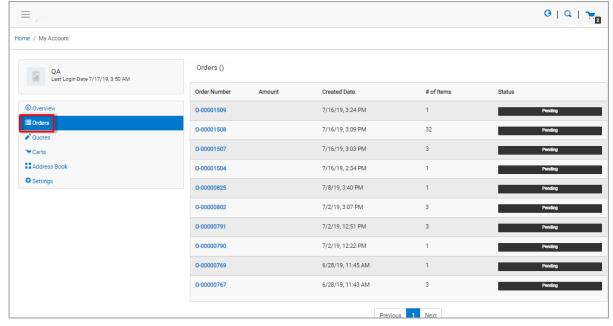
This feature allows you to:

- Request a Quote: You can request a quote for your cart instead of directly placing an order to get better product configuration and pricing. You can request a quote as a registered logged in user. This feature is not available for guest users. From your cart, when you click Request a Quote, you are presented with a page with the following information to add:
 - a. Quote Title Enter a meaningful title for your quote
 - b. RFP Response Due Date Enter a date by which you are expecting a response on the quote request.
 - c. Primary Contact By default, this field is auto-populated with your name as the Primary Contact. You can choose to change the primary contact to another contact associated with your account.
 - d. Ship To Account- By default, this field is auto-populated with your account along with the address. You may choose to add a different Ship to Account (Address).
 - e. Bill To Account- By default, this field is auto-populated with your account along with the address. You may choose to add a different Bill to Account (Address).
 - f. Comments You can add additional comments for the seller. For example: Discount needed or mention your budget for the purchase or seek more help with the products to buy and more.
 - g. Click Request Quote. The Quote Request confirmation pop up appears.
- View requested Quote After you have requested a quote, you can view your
 requested quote and also track the status of the quote from the Request Quote
 confirmation page or from My Accounts > Quotes page. You can also view and accept
 quotes that are presented to you for review and proceed to place the order.
- Modify a requested Quote You can edit the line items in a requested quote to add, modify or delete items. In addition to the line items, you can also modify the following:
 - · RFP Response Due Date
 - · Primary Contact
 - · Ship To Account
 - · Bill To Account

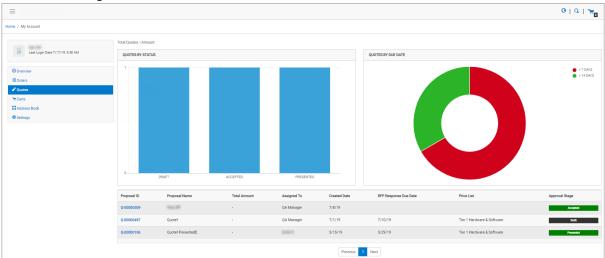
· Comments and Attachments



 View the order generated for the accepted quote and track the status of the order from the My Accounts > Orders and click an Order that you want to view.

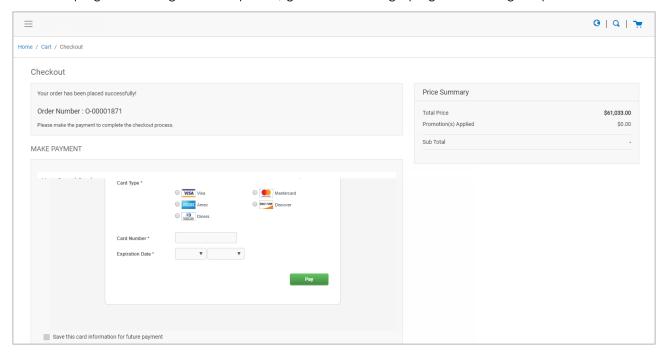


· View Summary Charts for Quote.



Managing Payments

With the payment integration in place, you can manage payments for your purchases.



With payment integration, you can do the following:

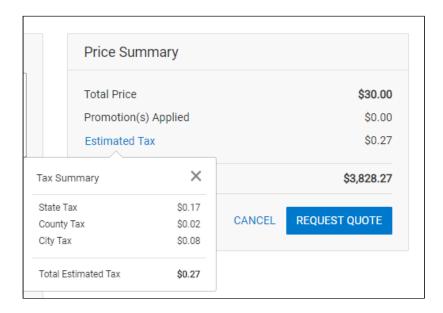
- You can make direct payments for orders using a Credit or Debit card during checkout.
- · You can view existing payment methods for a logged in user account.
- · You can add or delete existing Payment Methods.
- · Make payments using an existing payment method for the order.

 You can add card information for future payments. You can add as many cards as you want.

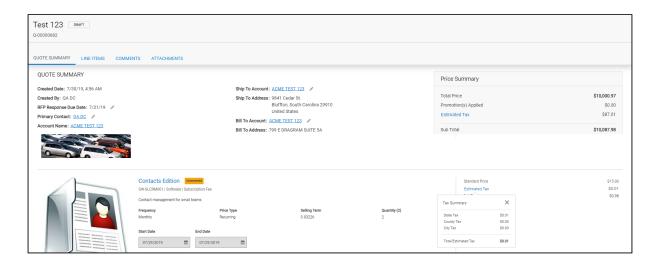
Viewing Tax Details

With the tax integration in place, you can:

 View Calculated tax summary details for "Quote/Order" on the Request Quote/ Checkout page or on the Quote/Order Summary.



· View Line Item level tax details on View Quote / View Order Page



Working with Multi-language Support

The default language for your Digital Commerce storefront is English. You can change the Language to your preferred language from the User Profile language in Salesforce. Changing the User Profile language translates the following:

- Static labels and error messages
- · Object fields also known as field label translations
- · Data (product, attribute groups, and categories)

To set the default language for a user

- 1. Go to Setup > Administration Setup > Managed Users and click Users.
- 2. Click Edit next to the User.
- 3. In Locale, select a locale. For example Spanish (Mexico).
- 4. In Language, select your preferred language for the user. For example Spanish.
- 5. Click Save.

Checkout of the Cart

You must Checkout the products to proceed with your order. The below tasks are followed:

- · Screens for Payment Method Capture
- · Shipping / Billing Address
- · Submit Order
- · Item Summary

Guest User Checkout

As a guest user, you can do the following:

- · Add products to the cart
- · Place order
- · Receive email notification with a link to your order
- · View placed order

Digital Commerce SDK

This section describes the APIs and UI component references used to build a Digital Commerce storefront for your customers.

| Topic | Description | |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| What's Covered | This section is designed to provide information related to reference templates, base libraries, models, components that can be inherited and reused. This section also provides information related to Services that suffice most of the business logic. For example: Create Order, Create Quote, and more. | |
| Primary Audience | The intended audience is the developer assigned for creating and maintaining new storefronts on a Salesforce org using Conga packages. | |
| IT Environment | For information pertaining to the requirements and recommendations, see System Requirements and Supported Platforms Matrix. | |
| Updates | For a comprehensive list of updates for each release, see What's New in Digital Commerce Documentation. | |
| Other Resources | See Digital Commerce for Administrators for implementation and deployment procedure. See Digital Commerce for Users for basic admin tasks and end-user experience. See Digital Commerce for REST API Developers for details of the CPQ REST APIs consumed by Digital Commerce. See CPQ documentation for detailed information on setting up the master data. | |

This SDK outlines the following:

- · Overview and dependencies
- Upgrade Information
- Modules
- Components
- · Classes
- · Injectables
- Guards

- Interfaces
- Pipes
- Miscellaneous

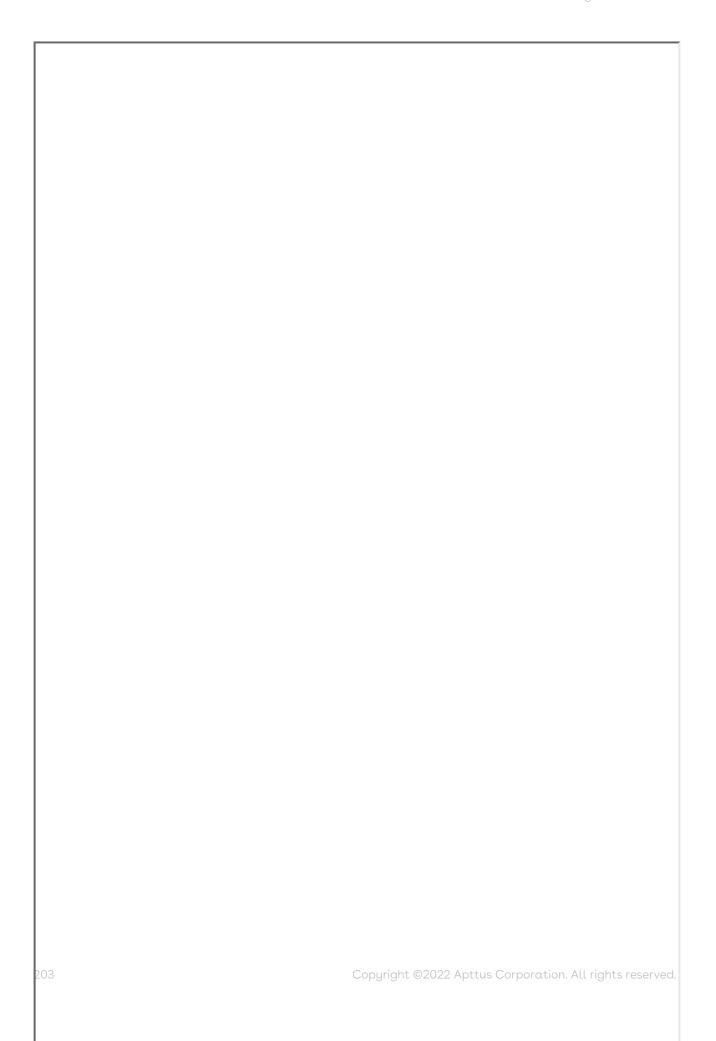
Before using Digital Commerce, you must be familiar with the following:

- Basic Salesforce administration
- · Salesforce and Conga terms and definitions

Select one of the following topics for more information:

SDK Reference

SDK Reference



Digital Commerce for REST API Developers

This section provides the details of the CPQ REST APIs that are used by the Digital Commerce application.

| Topic | Description |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| What's Covered | This section is designed to provide administrators with information on the micro-service architecture that enables commerce into any part of an application. |
| Primary Audience | Admin users responsible for installing, implementing, and deploying the Digital Commerce solution. |
| IT Environment | For information pertaining to the requirements and recommendations, see System Requirements and Supported Platforms Matrix. |
| Updates | For a comprehensive list of updates for each release, see What's New in Digital Commerce Documentation. |
| Other Resources | See Digital Commerce for Administrators for implementation and deployment procedure. See Digital Commerce for Users for basic admin tasks and end-user experience. See Digital Commerce SDK for technical instructions on the installation and setup of a Digital Commerce storefront. See CPQ documentation for detailed information on setting up the master data. |

This section outlines the following CPQ REST APIs:

- Authentication
- Storefront
- Account
- PriceList
- Catalog
- · Carts
- · Cart Items
- Generic
- Order
- · Quote

- Assets
- · Collaboration Request

Before using Digital Commerce, you must be familiar with the following:

- · Basic Salesforce administration
- · Salesforce and Conga terms and definitions

Select one of the following topics for more information:

• CPQ REST API Version 3

CPQ REST API Version 3

(Open API documentation is only available to view online)

Digital Commerce Features by Release

Review the latest Digital Commerce Features by Release document.

· Features by Release

Features by Release

This document contains an overview of features introduced in each major release of Digital Commerce. For more information, see Digital Commerce Features by Release.

Community & Learning Center Resources

The Conga Customer Community is your one-stop shop for success!

After registering as a new member you'll gain access to a wide variety of resources, including: further details regarding the onboarding process, access to the knowledge base, and product-specific discussion groups.

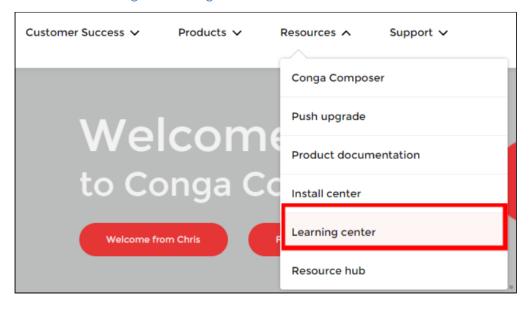
In addition, just a click away from Community is the Conga Learning Center: our comprehensive training portal well stocked with FREE self-paced courses complimented by virtual instructor-led sessions for more advanced and intensive training!

Ready to get started?

First download the Salesforce Authenticator app; you'll need it as part of the login procedure.

Then create a Community account, or log in here!

Once you're logged in, navigate to the Resources dropdown menu and click Learning Center to reach the Conga Learning Center!



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