



# Partner Commerce on Salesforce Spring 2020 REST API Guide



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## About This Guide

The Partner Commerce on Salesforce REST API Guide provides the details of the CPQ REST APIs that are used by the Partner Commerce application.

Topic	Description
What's Covered	This guide 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 are responsible for installing, implementing and deploying the Apttus Partner Commerce solution.
IT Environment	Refer to the latest Apttus Partner Commerce on Salesforce Release Notes for information on System Requirements and Supported Platforms.
Updates	For a comprehensive list of updates to this guide for each release, see the <a href="#">What's New</a> topic.
Other Resources	<ul style="list-style-type: none"> <li>• Partner Commerce Implementation and Deployment Guide: Refer to this guide for basic to advanced admin tasks.</li> <li>• Partner Commerce User Guide: Refer to this guide for end-user experience.</li> <li>• Partner Commerce SDK: Refer to this guide for technical instructions on the installation and setup of an Apttus E-Commerce storefront.</li> </ul>

This guide outlines the following CPQ REST APIs:

- Catalog
- Generic
- Carts
- Authentication
- Storefront
- Checkout

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

- Basic Salesforce administration
- Salesforce and Apttus terms and definitions

## What's New

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

Document	Topic	Description
Spring 2020	All topics	Complete new REST API guide.

# About Apttus Partner Commerce

Partner 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. Apttus Digital Commerce enables consumers to shop from their homes and offices, and even on the move.

As an administrator, you can use Apttus CPQ to perform configuration and pricing tasks to build the catalog page for your Digital Commerce web site. 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 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. Apttus 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 Apttus CPQ to configure products and pricing, you can associate the price list to the storefront object within the Apttus E-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 web sites. You can apply promotions, make secure payments, and calculate tax on your cart page.

Apttus Partner Commerce allows an administrator to perform the following administrative tasks:

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

- Set up single and multiple store
- Payment integration using Cybersource Payment
- Tax integration with Avalara tax engine
- Set up 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 custom field
  - Optimize Search Engine

## Key Terminology

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

Term	Description
Configure Price Quote (CPQ)	Apttus solution for configuring products, setting up pricing, and generating quotes.
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.

Term	Description
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 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.
Options	A product that can be sold along with another product.
Attributes	Features of a product, such as color, size, weight, and more.
Communities	Apttus 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.
Storefront	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 logo, banners and more.
Reference template/application	Base template provided by Apttus for further development and customization as per your requirement.
Payment integration	E-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.

# CPQ REST API

## Introduction

The Partner Commerce API follows a microservice architecture that enables commerce into any part of an application and is built on the [JSON API](#) specification, follows predictable [REST](#) URLs and supports [cross-origin resource sharing](#).

## Authentication

All requests to the API need to be accompanied by an authorization header with a standard salesforce authentication token

```
Authorization: Bearer 00D230000000nZM!  
ARMAQHLLm33JxYYP.UJn1gF6FFmLv8sDYK_8szeckHWtbguztoBpF0HL8...
```

The SDK comes with built-in mechanisms for obtaining the above authentication token or you may use any standard Salesforce [approach](#) for obtaining a custom access token for use with the API.

## Endpoint

The Partner Commerce API is installed with the Partner Commerce managed package and can be exposed to external applications via a Salesforce site or community. Once a community or site has been built, all API's will have the structure

```
https://mycommunity.force.com/community/services/apexrest/apttus/:version/:api
```

## Versions

The Partner Commerce API ensures backward compatibility by properly versioning any changes to the APIs. Should changes to the API structure need to be made, it will occur within a new version and older functionality will be preserved.



## X-Storefront Header Parameter

In order to match your API requests with a storefront, the x-storefront parameter must be used with all requests in the request header. It should match a storefront name record in SFDC.

```
x-storefront: my-storefront
```

## Content Type

Requests made to the API must be encoded as **JSON** and contain the header

```
Content-Type: application/json
```

## Includes

You can easily include resource relationships on most top-level resources. Multiple includes are defined using comma delimited values.

## Caching

Server side caching is used and can be configured per request using the cacheStrategy query parameter.

## Errors

Any request that returns an error follows a standard format. The Partner Commerce API will return an array of errors that contains objects containing the status, title, and data with the error details.

Code	Response
201	Created Successfully
200	Updated Successfully
204	Deleted Successfully

Code	Response
400	Invalid JSON
422	Validation Error
500	Something went wrong on our end

## CPQ REST APIs

The CPQ REST API guide outlines the following APIs:

- [Catalog](#)
- [Generic](#)
- [Carts](#)
- [Authentication](#)
- [Storefront](#)
- [Checkout](#)

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For additional resources and support, please visit <https://community.conga.com>.

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