



# Apttus TurboEngines Summer 2020 REST API Guide

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## About This Guide

This guide provides an API reference for the TurboConfig Publisher API. Use this API to sync product configuration data from Salesforce to the TurboConfig product configuration engine for processing. You can sync product data to TurboConfig by bundle Id or category Id.

Topic	Description
What's Covered	This guide provides a reference for the TurboConfig Apttus Publisher REST API provided by Apttus.
Primary Audience	<ul style="list-style-type: none"> <li>• Apttus TurboEngines Administrators</li> <li>• API Developers</li> <li>• Customer Administrators</li> </ul>
IT Environment	Refer to the latest <i>Apttus TurboEngines Summer 2020 Release Notes</i> for information on System Requirements and Supported Platforms.
Updates	For a comprehensive list of updates to this guide for each release, see the What's New topic.
Other Resources	<ul style="list-style-type: none"> <li>• <i>Apttus TurboEngines Summer 2020 Administrator Guide</i></li> <li>• <i>Apttus CPQ on Salesforce Administrator Guide</i>.</li> </ul>

This guide describes the following task:

- Syncing product data using TurboConfig Publisher API.

Before using TurboEngines, you must be familiar with the following:

- Understanding of REST architecture
- Knowledge of REST request and response payloads and operations
- Knowledge of Salesforce API calls
- Salesforce and Apttus terms and definitions
- Basic understanding of Apttus TurboConfig

## What's New

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

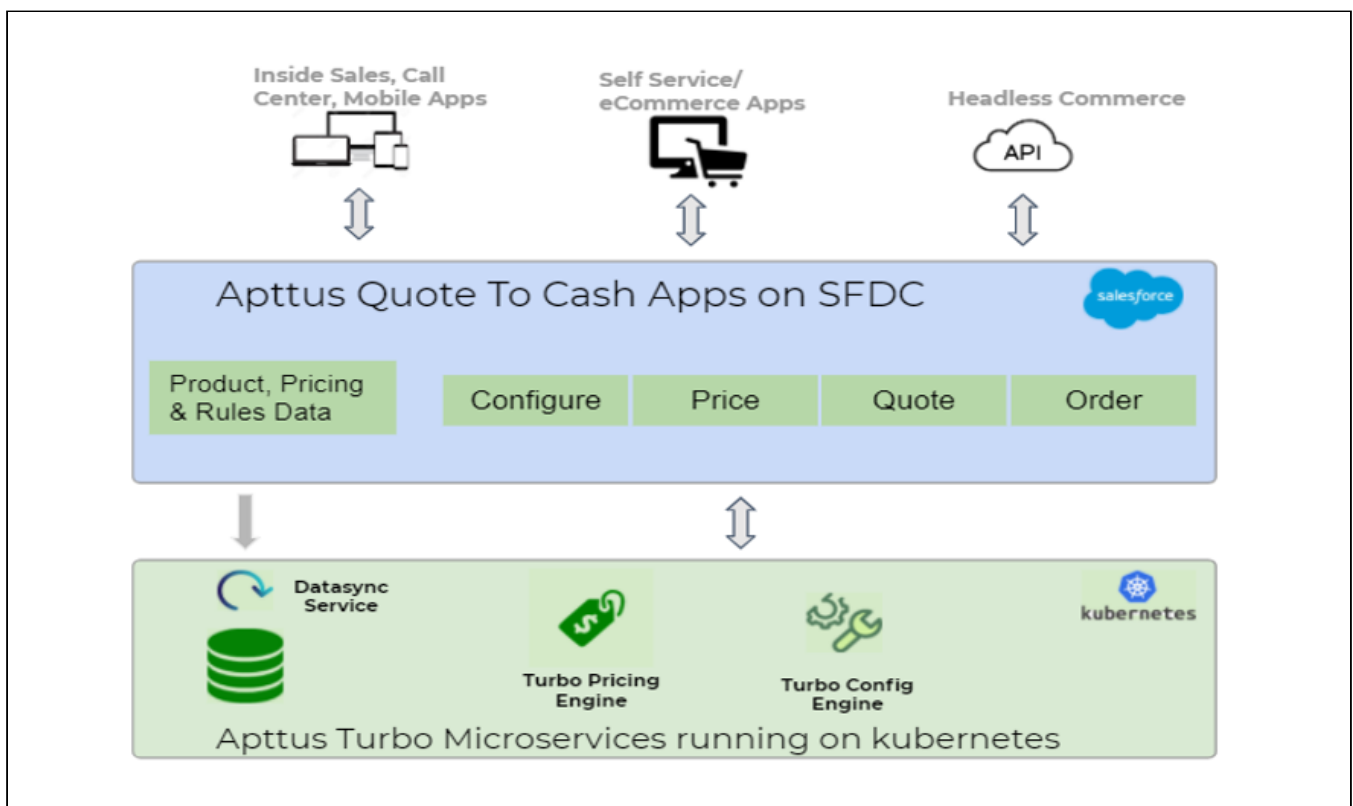
Document	Topic	Description
Summer 2020	All topics.	First release

## About TurboEngines

**Apttus TurboEngines** is a concurrent processing engine provided by Apttus that comprises various microservices that process product configurations (**TurboConfig**), pricing calculations (**TurboPricing**), and other product-related business data, such as promotions. Apttus TurboEngines offloads the computation workload from the Salesforce platform to the **Apttus Flexible Compute Platform** to reduce the processing time on the cart. Processing the computation workload in the Apttus Flexible Compute Platform reduces the interaction costs and the quote turnaround time specifically during peak load or large transactions.

TurboEngines scale on the following dimensions:

- Number of users
- Size of transaction
- The complexity of the product and rules



## TurboConfig Publisher

API developers must use the TurboConfig Publisher API to sync product configuration data from Salesforce to TurboConfig for processing on the Apttus Flexible Compute Platform. Use the Publisher API to perform an initial one-time sync of product configuration data, and for every subsequent update to configuration data as required. The Publisher API allows you to sync product configuration data by bundle Id or category Id. You must publish data every time structural changes are made to the products or configuration rules. When you update configuration rules, such as Constraint Rules and Attribute Rules, you must identify the top-level bundles affected by those rules and publish them, to avoid processing stale configuration.

- [TurboConfig Publish Bundle](#)
- [TurboConfig Publish Category](#)

## TurboConfig Publish Bundle

### TurboConfig Publisher

This API pushes all product details including product information, attributes, and rules associated with a product. In the case of bundle products, the parent bundle ID needs to be passed. The API publishes all associated options groups, options, and rules automatically. You can use this API to publish a list of products (for example, 1 to 2000 products) in a single call. You can pass a single product Id or an array of product Ids. You can use this API to publish incremental product changes.

More information: <https://helloverb.com>

Contact Info: [hello@helloverb.com](mailto:hello@helloverb.com)

Version: 1.0

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### Access

### Methods

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### Misc

- [POST /publishBundle](#)

## Misc

POST /publishBundle

Up

### TurboConfig Publish Bundle (`turboConfigPublishBundle`)

You must pass a top level bundle ID to this API to push data to TurboConfig. This API executes Salesforce queries to get product structure, rules, product attribute rules, matrices, and so on. Typically for large bundles it takes around 40 to 50 seconds. If you have large bundles and huge number of related rules the API may need more than 2 to 4 minutes. The time taken depends on how the Salesforce org is returning the data.

## Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

## Request body

**body** `TurboConfigPublishBundleRequest` (required)

*Body Parameter –*

```
example: {
  "hierarchyId" : [ "a0J2D000000gVXXUA2" ]
}
```

## Request headers

## Return type

`TurboConfigPublishBundle`

## Example data

Content-Type: application/json

```
{
  "errors" : [ ],
  "info" : [ {
    "message" : "Offering published successfully"
  } ],
}
```

```
"sessionId" : "00DS0000003SnhF!ARQAQG7xh_QKVTvifWpNSSRcoM2ctELxgR0sk7XAhY6y6KZo9rpBzPS80XpWxWw7g"
}
```

## Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

## Responses

200

TurboConfigPublishBundle

---

## Models

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2. [TurboConfigPublishBundle - TurboConfigPublishBundle](#)
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### Info - Info

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**message**

String

### TurboConfigPublishBundle - TurboConfigPublishBundle

[Up](#)

**errors**

array[String]

**info**

array[Info]

**sessionId**

String



## TurboConfigPublishBundleRequest - TurboConfigPublishBundleRequest Up

**hierarchyId**  
array[String]

## TurboConfig Publish Category

### TurboConfig Publisher

This API publishes a category and all products associated with that category. You must pass the category hierarchy ID in the request. You can publish only one category at a time. This API categories with 1000 products or less.

More information: <https://helloreverb.com>

Contact Info: [hello@helloreverb.com](mailto:hello@helloreverb.com)

Version: 1.0

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### Access

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#### Misc

- [POST /publishCategory](#)

### Misc

[POST /publishCategory](#)

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TurboConfig Publish Category ([turboConfigPublishCategory](#))

Pass the category hierarchy ID to this API to push product configuration data to TurboConfig. This API executes Salesforce queries to retrieve all data like product structure, related rules, and product attributes rules and matrices. In a single call, you can group small bundles and standalone products under a single category to push to TurboConfig. You can write rules across standalone products to group related standalone products under a single category and publish using this API.

## Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

## Request body

**body TurboConfigPublishCategoryRequest (required)**

*Body Parameter –*

*example: {*

```
"hierarchyId" : [ "a0J2D000000gVXXUA2" ]
}
```

## Request headers

## Return type

TurboConfigPublishCategory

## Example data

Content-Type: application/json

```
{
  "errors" : [ ],
  "info" : [ {
    "message" : "Offering published successfully"
  } ],
  "sessionId" : "00DS0000003SnhF!ARQAQG7xh_QKVTvifWpNSSRcoM2ctELxgR0sk7XAhY6y6KZo9rpBzPS80XpWxWw7gf2n"
}
```

## Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

## Responses

### 200

TurboConfigPublishCategory

---

## Models

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### Info - Info

[Up](#)

**message**  
String

### TurboConfigPublishCategoryRequest - TurboConfigPublishCategoryRequest

[Up](#)

**hierarchyId**  
array[String]

### TurboConfigPublishCategory - TurboConfigPublishCategory

[Up](#)

**errors**  
array[String]

**info**  
array[Info]

**sessionId**  
String

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