



CPQ Components Management API Reference Guide

Revision 02

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Table of Contents

About this guide	1
Introduction	1
Accessing the Portal	1
Related Documentation	1
Acronym List	2
Contact Customer Support	2
About CPQ Components APIs	3
CPQ Components APIs	4
PUT Activate/deactivate CPQ component	4
POST Create CPQ component	5
POST Create CPQ price within component	7
DELETE CPQ component	9
DELETE CPQ component price	10
PUT Edit CPQ component	11
PUT Edit CPQ component price	13
GET CPQ component by id	16
GET CPQ component prices	20
GET CPQ component prices by customer id	23
GET CPQ component prices by customer item id	25
GET CPQ components for a given company	30
PUT Make CPQ component automatic	36
Revision history	38

About this guide

Introduction

This document describes the CPQ Components Management APIs.

Accessing the Portal

Using any standard web browser, you can access the Connectbase API portal by entering the following URL: <https://developer.connectbase.com>.

- If this is your first time visiting the site, click [Sign up](#) to register as a new API user.
- If you are already a registered user, [Sign in](#) using your API login and password.

Related Documentation

Refer to the following documents for detailed information about each of the supported Connectbase API products:

- *Address Autocomplete API Reference Guide*
- *Address Validation API Reference Guide*
- *Advanced CPQ API Reference Guide*
- *Building Competitive Rating API Reference Guide*
- *Connectbase Developer Portal Overview Guide*
- *Connected World Availability API Reference Guide*
- *Connected World Account API Reference Guide*
- *Connected World Building API Reference Guide*
- *Connected World Building Lists API Reference Guide*
- *Connected World Distributions API Reference Guide*
- *CPQ API Reference Guide*
- *CPQ Components Management API Reference Guide*
- *Demand Engine API Reference Guide*
- *Geocode API Reference Guide*
- *International Processor API Reference Guide*
- *Locations Intelligence API Reference Guide*
- *Network Intelligence API Reference Guide*
- *Network Path API Reference Guide*
- *NNI Management API Reference Guide*
- *Rate Card Management API Reference Guide*
- *Route Management API Reference Guide*
- *Tenant API Reference Guide*

Acronym List

This document uses the following acronyms.

Acronym	Description
API	Application Program Interface
CPQ	Configure, Price, Quote
HTTP	Hyper Text Transfer Protocol
JSON	JavaScript Object Notation
N/A	Not applicable
URL	Uniform Resource Locator
USPS	United States Postal Service
WISP	Wireless Internet Service Provider

Contact Customer Support

If you require technical assistance or wish to report an issue to the Connectbase Support team, please log into the Connectbase Customer Support portal at <https://support.connectbase.com> and log a ticket.

For other general information, you can contact Customer Support by email at support@connectbase.com or by phone at (508) 202-1807 between the hours of 8:00 a.m. and 5:00 p.m. EST.

About CPQ Components APIs

CPQ components enable you to set up “reusable” pricing groups for use in a CPQ quote under the configured conditions.

This section describes the following CPQ Components APIs:

- *PUT Activate/deactivate CPQ component*
- *POST Create CPQ component*
- *POST Create CPQ price within component*
- *DELETE CPQ component*
- *DELETE CPQ component price*
- *PUT Edit CPQ component*
- *PUT Edit CPQ component price*
- *GET CPQ component by id*
- *GET CPQ component prices*
- *GET CPQ component prices by customer id*
- *GET CPQ components by customer item id*
- *PUT Make CPQ component automatic*

CPQ Components APIs

PUT Activate/deactivate CPQ component

Use this API to activate or deactivate an existing CPQ component.

Requirements and Special Considerations

componentId and companyId are required parameters.

Request URL

https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}/activate[?companyId][&activate]

Request parameters	Characteristic	Description/Requirements
componentId	number	A unique CPQ component identifier that is system generated when the component is created.
companyId	int	The Connectbase instance identifier used to identify the company.
activate (optional)	boolean	Y/N. Indicate Y if you want the CPQ component to be automatically activated for CPQ quoting. If left blank, the system defaults to N.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

Success Response Example

```
{}
```

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type

Error Response Example

```
{
  "timestamp": 1648834090712,
  "status": 403,
  "error": "Forbidden",
  "path": "/api/v1/cpq/components/4223/automatic"
}
```

POST Create CPQ component

Use this API to create a CPQ component for a company.

Requirements and Special Considerations

companyId is a required parameter.

Request URL

https://api.connected2fiber.com/components/api/v1/cpq/components[?companyId]

Request parameters	Characteristic	Description/Requirements
companyId (required)	int	The Connectbase instance identifier used to identify the company.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

Request body

```
{
  "name": "component49",
  "cardinality": "Per quote",
  "customerItemId": "item1",
  "category": "category1",
  "expiresAt": "2024-01-30 00:00:00",
  "automatic": true
}
```

Success Response Example

```
{
  "id": 399,
  "name": "component49",
  "companyId": 174,
  "createdByAccount": {
    "user": {
      "username": "",
      "email": "jdoe@connected2fiber.com",
      "firstName": "John",
      "lastName": "Doe"
    }
  },
  "updatedByAccount": {
    "user": {
      "username": "",
      "email": "jdoe@connected2fiber.com",
      "firstName": "John",
      "lastName": "Doe"
    }
  },
  "createdAt": "2022-03-24 17:48:46",
  "updatedAt": "2022-03-24 17:48:46",
  "expiresAt": "2024-01-30 00:00:00",
  "cardinality": "Per quote",
  "automatic": true,
}
```


Success Response Example

```
"active": true,  
"deleted": false,  
"customerItemId": "item1",  
"category": "category1",  
"prices": []  
}
```

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
id	The unique Connectbase Id that is assigned to the company instance.	int
name	The company name.	string
companyId	The Connectbase generated company Id.	int
createdByAccount	object wrapper	object
user	Object wrapper	object
username	object wrapper	string
email	The email address of the contact	string
firstName	The first name of the contact	string
lastName	The last name of the contact	string
updatedByAccount	object wrapper	object
createdAt	The date and time in which the query was performed.	datetime
updatedAt	Date/time last updated	datetime
expiresAt	Date/time due for expiration	datetime
cardinality	Related to the how the rule is applied, such as per quote or per location, etc.	string
automatic	true/false	boolean
active	true/false	boolean
deleted	true/false	boolean
customerItemId	Customer provided. Where provided is consumed in the CPQ process flow for the component.	string
category	Customer-defined field that may include such designations, for example, as Equipment, Managed Services, Installation, Cross Connect, Other, and can then be referenced by the Rules Engine.	string
prices	An array wrapper containing pricing objects	object array
id	The unique Connectbase Id that is assigned to the company instance.	int

Error Response Example

```
{  
  "status": "Failed",  
}
```

Error Response Example

```
"message": "PricingApiException",
"errors": {
  "component": "Component name 'component4112129' already used. Try another one."
}
```

POST Create CPQ price within component

Use this API to create a price within a configured component.

Requirements and Special Considerations

componentId and companyId are required parameters.

Request URL

[https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}/prices\[?companyId\]](https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}/prices[?companyId])

Request parameters	Characteristic	Description/Requirements
componentId	number	A unique CPQ component identifier that is system generated when the component is created.
companyId	int	The Connectbase instance identifier used to identify the company.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

POST Create CPQ price within component Request body

```
{
  "accessMedium": "Fiber",
  "product": "Ethernet",
  "speed": "DS0",
  "term": 12,
  "provider": "Att",
  "mrcPrice": 20,
  "nrcPrice": 20,
  "mrcCost": 20,
  "nrcCost": 20,
  "note": "note1",
  "customerComponentId": "ccl",
  "currency": "USD",
  "customProductName": "product1",
  "condition": {
    "supplierName": "Att",
    "cardinality": "Per location",
    "term": "12"
  }
}
```

POST Create CPQ price within component Success Response Example

```
{
  "message": "Component price was successfully created",
  "accessMedium": "Fiber",
  "product": "Ethernet",
  "speed": "DS0",
  "customProductName": "product1",
  "term": "12",
  "provider": "Att",
  "mrcPrice": 20,
  "nrcPrice": 20,
  "mrcCost": 20,
  "nrcCost": 20,
  "note": "note1",
  "deleted": false,
  "customerComponentId": "cc1",
  "currency": "USD",
  "condition": {
    "supplierName": "Att",
    "cardinality": "Per location",
    "term": "12"
  }
}
```

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
message	Message associated with the status.	string
accessMedium	The medium used for connectivity to the building or specified location. <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless – Satellite • Other 	string
product	The name of the product or service.	string
speed	The speed for the product	string
customProductName	Customer provided product name if different than the product or service name.	string
term	Indicates the length of the quote in months	string
provider	The name of the service supplier	string
mrcPrice	The monthly price, composed of the cost + margin or markup over the cost. The MRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
nrcPrice	The non-recurring price, composed of the cost + margin or markup over the cost.	int

Response Attribute	Attribute Description	Data Type
	The NRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	
mrcCost	Monthly recurring cost	int
nrcCost	Non-recurring cost	int
note	Generic or system generated notes associated with the solution	string
deleted	True/false	boolean
customerComponentId	Where provided, enables a CPQ component to be identified by a customer provided Id for easy identification, future product bundling, and management of a higher number of components.	string
currency	The code associated with a specific currency type, such as USD for United States Dollar	string
condition	Identifies the price conditions to be applied (Supplier, Product Category, Speed, Media Type, and/or Term). A minimum of one condition must be applied.	object
supplierName	Identifies the name of the Supplier	string
cardinality	Related to the how the rule is applied, such as per quote.	string
term	Indicates the length of the quote in months	string

Error Response Example

```
{
  "timestamp": 1648832917682,
  "status": 400,
  "error": "Bad Request",
  "path": "/api/v1/cpq/components/422/prices"
}
```

DELETE CPQ component

Use this API to delete an existing CPQ component.

Requirements and Special Considerations

componentId and companyId are required parameters.

Request URL

[https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}\[?companyId\]](https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}[?companyId])

Request parameters	Characteristic	Description/Requirements
componentId	number	A unique CPQ component identifier that is system generated when the component is created.
companyId	int	The Connectbase instance identifier used to identify the company.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

DELETE CPQ component Success Response Example
<pre>200 OK null</pre>

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
200 OK	The CPQ component was successfully deleted.	string

DELETE CPQ component Error Response Example
<pre>{ "timestamp": 1648834211700, "status": 403, "error": "Forbidden", "path": "/api/v1/cpq/components/2/prices/21" }</pre>

DELETE CPQ component price

Use this API to delete a component price within a configured component.

Requirements and Special Considerations
componentId, priceId, and companyId are all required parameters.

Request URL
https://stagecwapi.connected2fiber.com/components/api/v1/cpq/components/{componentId}/prices/{priceId}[?companyId]

Request parameters	Characteristic	Description/Requirements
componentId	number	A unique CPQ component identifier that is system generated when the component is created.

Request parameters	Characteristic	Description/Requirements
priceId	number	A unique system generated price Id for each price condition in the configured CPQ component.
companyId	int	The Connectbase instance identifier used to identify the company.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

DELETE CPQ component price Success Response Example

200 OK

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
200 OK	The CPQ component price was successfully deleted.	string

DELETE CPQ component price Error Response Example

```
{
  "timestamp": 1648834211700,
  "status": 403,
  "error": "Forbidden",
  "path": "/api/v1/cpq/components/2/prices/21"
}
```

PUT Edit CPQ component

Use this API to edit an existing CPQ component

Requirements and Special Considerations

componentId and companyId are required parameters.

Request URL

<https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}?companyId>

Request parameters	Characteristic	Description/Requirements
componentId	number	A unique CPQ component identifier that is system generated when the component is created.
companyId	int	The Connectbase instance identifier used to identify the company.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

PUT Edit CPQ component Request body

```
{
  "name": "component49",
  "cardinality": "Per quote",
  "customerItemId": "item1",
  "category": "category1",
  "expiresAt": "2024-01-30 00:00:00",
  "automatic": true
}
```

PUT Edit CPQ component Success Response Example

```
{
  "message": "Component was successfully updated",
  "id": 317,
  "name": "new component49",
  "companyId": 187,
  "customerItemId": "item1",
  "category": "equipment",
  "quoteMasterId": null,
  "createdByAccount": {
    "user": {
      "username": "",
      "email": "j.doe@digiscorp.com",
      "firstName": "John",
      "lastName": "Doe"
    }
  },
  "updatedByAccount": {
    "user": {
      "username": "",
      "email": "j.doe@digiscorp.com",
      "firstName": "John",
      "lastName": "Doe"
    }
  },
  "createdAt": "2022-02-07T13:30:11Z",
  "updatedAt": "2022-02-07T13:35:02Z",
  "expiresAt": "2023-02-15T00:02:00Z",
  "automatic": false,
  "active": true,
  "deleted": false,
  "prices": []
}
```

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
message	Message associated with the status.	string
id	The unique Connectbase Id that is assigned to the company instance.	int
name	The company name.	string
companyId	The Connectbase generated company Id.	int

Response Attribute	Attribute Description	Data Type
customerItemId	Customer provided. Where provided is consumed in the CPQ process flow for the component.	string
category	Customer-defined field that may include such designations, for example, as Equipment, Managed Services, Installation, Cross Connect, Other, and can then be referenced by the Rules Engine.	string
quoteMasterId	Customer provided master Id assigned to a quote with multiple deals.	int
createdByAccount	User Id of the account creator.	object
user	Object wrapper	object
username	User name of the account creator.	string
email	The email address of the contact	string
firstName	The first name of the contact	string
lastName	The last name of the contact	string
createdAt	The date and time in which the query was performed.	Datetime
updatedAt	Date/time when last updated.	datetime
expiresAt	Date/time for expiration.	datetime
automatic	true/false	boolean
active	true/false	boolean
deleted	true/false	boolean
prices	An array wrapper containing pricing objects	object array

PUT Edit CPQ component Error Response Example

```

{
  "totalComponents": null,
  "failedComponents": null,
  "totalPrices": null,
  "failedPrices": null,
  "componentsErrorLogs": null,
  "pricesErrorLogs": null,
  "commonErrorLogs": null,
  "status": "Failed",
  "description": "Could not parse '2024-01-30TT 00:00:00'. Expires At field should have valid date format : YYYY-MM-DD HH:MM:SS OR YYYY-MM-DD"
}

```

PUT Edit CPQ component price

Use this API to edit a component price in an existing component.

Requirements and Special Considerations

componentId, priceId, and companyId are required parameters.

Request URL

https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}/prices/{priceId}[?companyId]

Request parameters	Characteristic	Description/Requirements
componentId	number	A unique CPQ component identifier that is system generated when the component is created.
priceId	number	A unique system generated price Id for each price condition in the configured CPQ component.
priceId	number	A unique system generated price Id for each price condition in the configured CPQ component.
companyId	int	The Connectbase instance identifier used to identify the company.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

PUT Edit CPQ component price Request body

```
{
  "accessMedium": "Fiber",
  "product": "Ethernet",
  "speed": "DS0",
  "term": 12,
  "provider": "Att",
  "mrcPrice": 60,
  "nrcPrice": 20,
  "mrcCost": 20,
  "nrcCost": 20,
  "note": "note1",
  "customerComponentId": "ccl",
  "currency": "USD",
  "customProductName": "product1",
  "condition": {
    "supplierName": "Att",
    "cardinality": "Per location",
    "term": "12",
    "accessMedium": "Fiber"
  }
}
```

PUT Edit CPQ component price Success Response Example

```
{
  "message": "Component price was successfully created",
  "accessMedium": "Fiber",
  "product": "Ethernet",
  "speed": "DS0",
  "customProductName": "product1",
  "term": "12",
  "provider": "Att",
}
```

PUT Edit CPQ component price Success Response Example

```

"mrcPrice": 20,
"nrcPrice": 20,
"mrcCost": 20,
"nrcCost": 20,
"note": "note1",
"deleted": false,
"customerComponentId": "ccl",
"currency": "USD",
"condition": {
  "supplierName": "Att",
  "cardinality": "Per location",
  "term": "12"
}
}

```

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
message	Message associated with the status.	string
accessMedium	The medium used for connectivity to the building or specified location. <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless - Satellite • Other 	string
product	The name of the product or service.	string
speed	The speed for the product	string
customProductName	Customer provided. Where provided enables customer to assign a custom name to a product.	string
term	Indicates the length of the quote in months	string
provider	The name of the service supplier	string
mrcPrice	The monthly price, composed of the cost + margin or markup over the cost. The MRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
nrcPrice	The non-recurring price, composed of the cost + margin or markup over the cost. The NRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int

Response Attribute	Attribute Description	Data Type
mrcCost	Monthly recurring cost	int
nrcCost	Non recurring cost	int
note	Generic or system generated notes associated with the solution	string
deleted	true/false	boolean
customerComponentId	Where provided, enables a CPQ component to be identified by a customer provided Id for easy identification, future product bundling, and management of a higher number of components.	string
currency	The code associated with a specific currency type, such as USD for United States Dollar	string
condition	Identifies the price conditions to be applied (Supplier, Product Category, Speed, Media Type, and/or Term). A minimum of one condition must be applied.	object array
supplierName	Indicates the name of the supplier	string
cardinality	Related to the how the rule is applied, such as per quote or per location, etc.	string
term	Indicates the length of the quote in months	string

PUT Edit CPQ component price Error Response Example

```
{
  "timestamp": 1648833529372,
  "status": 400,
  "error": "Bad Request",
  "path": "/api/v1/cpq/components/422/prices/732"
}
```

GET CPQ component by id

Use this API to retrieve component details by id.

Requirements and Special Considerations

componentId and companyId are required parameters.

Request URL

<https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}?companyId>

Request parameters	Characteristic	Description/Requirements
componentId	number	A unique CPQ component identifier that is system generated when the component is created.

Request parameters	Characteristic	Description/Requirements
companyId	int	The Connectbase instance identifier used to identify the company.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

GET CPQ component by id Success Response Example

```
{
  "id": 319,
  "name": "new component256",
  "companyId": 187,
  "customerItemId": "item1",
  "category": "equipment",
  "createdByAccount": {
    "user": {
      "username": "",
      "email": "j.doe@digiscorp.com",
      "firstName": "John",
      "lastName": "Doe"
    }
  },
  "updatedByAccount": {
    "user": {
      "username": "",
      "email": "j.doe@digiscorp.com",
      "firstName": "John",
      "lastName": "Doe"
    }
  },
  "createdAt": "2022-02-08T11:02:34Z",
  "updatedAt": "2022-02-08T11:19:16Z",
  "expiresAt": "2023-02-15T00:02:00Z",
  "automatic": false,
  "active": true,
  "deleted": false,
  "prices": [
    {
      "id": 616,
      "accessMedium": "Fiber",
      "product": "Ethernet",
      "speed": "DS0",
      "customProductName": "product1",
      "term": "12",
      "provider": "Att",
      "mrcPrice": 20,
      "nrcPrice": 20,
      "mrcCost": 20,
      "nrcCost": 20,
      "note": "note1",
      "deleted": false,
      "customerComponentId": "cc1",
      "currency": "USD",
      "condition": {
        "id": 579,
        "supplierName": "Att",
        "cardinality": "Per location",
        "term": "12"
      }
    }
  ]
}
```

GET CPQ component by id Success Response Example

```
}  
}
```

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
id	The unique Connectbase Id that is assigned to the company instance.	int
name	The company name.	string
companyId	The Connectbase generated company Id.	int
customerItemId	Customer provided. Where provided is consumed in the CPQ process flow for the component.	string
category	Customer-defined field that may include such designations, for example, as Equipment, Managed Services, Installation, Cross Connect, Other, and can then be referenced by the Rules Engine.	string
createdByAccount	User Id of the account creator.	object
user	Object wrapper	object
username	The name/id of the user who created the account.	string
email	The email address of the contact	string
firstName	The first name of the contact	string
lastName	The last name of the contact	string
updatedByAccount	The Id of the user who last updated the account.	object
createdAt	The date and time in which the query was performed.	datetime
updatedAt	Date/time last updated.	datetime
expiresAt	Date/time of expiration.	datetime
automatic	true/false	boolean
active	true/false	boolean
deleted	true/false	boolean
prices	Object wrapper	array
accessMedium	The medium used for connectivity to the building or specified location. <ul style="list-style-type: none">• Coax/HFC• Copper• Fiber• Wireless – Fixed• Wireless – Mobile• Wireless - Satellite• Other	string
product	The name of the product or service.	string

Response Attribute	Attribute Description	Data Type
speed	The speed for the product	string
customProductName	Customer provided. Where provided enables the customer to define a custom name for the product.	string
term	Indicates the length of the quote in months	string
provider	The name of the service supplier	string
mrcPrice	The monthly price, composed of the cost + margin or markup over the cost. The MRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
nrcPrice	The non-recurring price, composed of the cost + margin or markup over the cost. The NRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
mrcCost	Monthly recurring cost	int
nrcCost	Non recurring cost	int
note	Generic or system generated notes associated with the solution	string
customerComponentId	Where provided, enables a CPQ component to be identified by a customer provided Id for easy identification, future product bundling, and management of a higher number of components.	string
currency	The code associated with a specific currency type, such as USD for United States Dollar	string
condition	Identifies the price conditions to be applied (Supplier, Product Category, Speed, Media Type, and/or Term). A minimum of one condition must be applied.	object
supplierName	Identifies the name of the supplier.	string
cardinality	Related to the how the rule is applied, such as per quote or per location, etc.	string

GET CPQ component by id Error Response Example

```
{
  "timestamp": 1648833574408,
  "status": 403,
  "error": "Forbidden",
  "path": "/api/v1/cpq/components/4"
}
```

GET CPQ component prices

Use this API to retrieve component prices for an existing CPQ component.

Requirements and Special Considerations

componentId and companyId are required parameters.

Request URL

https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}/prices[?companyId]

Request parameters	Characteristic	Description/Requirements
componentId	number	A unique CPQ component identifier that is system generated when the component is created.
companyId	int	The Connectbase instance identifier used to identify the company.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

Success Response Example

```
{
  "id": 299,
  "name": "Vika test component 4",
  "companyId": 187,
  "createdByAccount": {
    "user": {
      "username": null,
      "email": "v.kotovets@connectbase.com",
      "firstName": "V",
      "lastName": "Kotovets"
    }
  },
  "updatedByAccount": {
    "user": {
      "username": null,
      "email": "v.kotovets@connectbase.com",
      "firstName": "V",
      "lastName": "Kotovets"
    }
  },
  "createdAt": "2022-01-28T13:42:26Z",
  "updatedAt": "2022-01-30T14:19:58Z",
  "expiresAt": null,
  "automatic": true,
  "active": true,
  "deleted": false,
  "customerItemId": "item1",
  "category": "category1",
  "prices": [
    {
      "id": 606,
      "accessMedium": "Fiber",
      "product": "Ethernet - Switched",
```

Success Response Example

```
"speed": "10M",
"customProductName": "product1",
"customSpeedName": "",
"term": "12",
"provider": "AT&T",
"mrcPrice": 20,
"nrcPrice": 20,
"mrcCost": 20,
"nrcCost": 20,
"note": "note1",
"deleted": false,
"customerComponentId": "cc1",
"currency": "USD",
"condition": {
  "id": 569,
  "supplierName": "Att",
  "accessMedium": null,
  "product": null,
  "speed": null,
  "cardinality": "Per location",
  "term": "12"
},
{
  "id": 607,
  "accessMedium": "Fiber",
  "product": "Ethernet - Switched",
  "speed": "20M",
  "customProductName": "product1",
  "customSpeedName": null,
  "term": "12",
  "provider": "Zayo",
  "mrcPrice": 60,
  "nrcPrice": 20,
  "mrcCost": 20,
  "nrcCost": 20,
  "note": "note1",
  "deleted": false,
  "customerComponentId": "cc7",
  "currency": "USD",
  "condition": {
    "id": 570,
    "supplierName": "Zayo",
    "accessMedium": "Fiber",
    "product": null,
    "speed": null,
    "cardinality": "Per location",
    "term": "12"
  }
}
]
}
```

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
id	The unique Connectbase Id that is assigned to the company instance.	int
name	The company name.	string
companyId	The Connectbase generated company Id.	int
createdByAccount	User Id of the account creator.	object
user	Object wrapper	object

Response Attribute	Attribute Description	Data Type
username	The name of the user who created the account.	string
email	The email address of the contact	string
firstName	The first name of the contact	string
lastName	The last name of the contact	string
updatedByAccount	object wrapper	object
createdAt	The date and time in which the query was performed.	datetime
updatedAt	Date/time of last update	datetime
expiresAt	Date/time of expiration	datetime
automatic	true/false	boolean
active	true/false	boolean
deleted	true/false	boolean
prices	Object wrapper	array
accessMedium	The medium used for connectivity to the building or specified location. <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless - Satellite • Other 	string
product	The name of the product or service.	string
speed	The speed for the product	string
customProductName	Customer provided. Where provided enables the customer to define a custom name for the product.	string
term	Indicates the length of the quote in months	string
provider	The name of the service supplier	string
mrcPrice	The monthly price, composed of the cost + margin or markup over the cost. The MRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
nrcPrice	The non-recurring price, composed of the cost + margin or markup over the cost. The NRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
mrcCost	Monthly recurring cost	int
nrcCost	Non recurring cost	int

Response Attribute	Attribute Description	Data Type
note	Generic or system generated notes associated with the solution	string
customerComponentId	Where provided, enables a CPQ component to be identified by a customer provided Id for easy identification, future product bundling, and management of a higher number of components.	string
currency	The code associated with a specific currency type, such as USD for United States Dollar	string
condition	Identifies the price conditions to be applied (Supplier, Product Category, Speed, Media Type, and/or Term). A minimum of one condition must be applied.	object
supplierName	Identifies the name of the supplier.	string
cardinality	Related to the how the rule is applied, such as per quote or per location, etc.	string
customSpeedName	Customer provided. Where provided, enables user to define a custom speed name.	string

GET CPQ component prices Error Response Example

```
{
  "timestamp": 1648833574408,
  "status": 403,
  "error": "Forbidden",
  "path": "/api/v1/cpq/components/4"
}
```

GET CPQ component prices by customer id

Use this API to retrieve component prices for a specified customer id.

Requirements and Special Considerations

customerItemId and companyId are required parameters. customerComponentId is optional.

Request URL

[https://api.connected2fiber.com/components/api/v1/cpq/components/customer/{customerItemId}/prices\[?companyId\]\[&customerComponentId\]](https://api.connected2fiber.com/components/api/v1/cpq/components/customer/{customerItemId}/prices[?companyId][&customerComponentId])

Request parameters	Characteristic	Description/Requirements
customerItemId	string	A custom ID that is defined in Create CPQ Component
companyId	int	The Connectbase instance identifier used to identify the company.

Request parameters	Characteristic	Description/Requirements
customerComponentId	string	A unique CPQ component identifier that is system generated when the component is created.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

GET CPQ component prices by customer id Success Response Example
<pre>[{ "id": 10, "accessMedium": "Fiber", "product": "SONET/TDM", "speed": "DS0", "term": "12", "provider": "Cox", "mrcPrice": 10, "nrcPrice": 10, "mrcCost": 10, "nrcCost": 10, "note": "notes", "deleted": false, "customerComponentId": "CCID", "currency": "USD", "condition": { "id": 20, "supplierName": "Cox", "accessMedium": "Fiber", "product": "Ethernet", "speed": "DS0", "term": "12", "currency": "USD" } }]</pre>

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
id	The unique Connectbase Id that is assigned to the company instance.	int
accessMedium	The medium used for connectivity to the building or specified location. <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless - Satellite • Other 	string
product	The name of the product or service.	string

Response Attribute	Attribute Description	Data Type
speed	The speed for the product	string
term	Indicates the length of the quote in months	string
provider	The name of the service supplier	string
mrcPrice	The monthly price, composed of the cost + margin or markup over the cost. The MRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
nrcPrice	The non-recurring price, composed of the cost + margin or markup over the cost. The NRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
mrcCost	Monthly recurring cost	int
nrcCost	Non recurring cost	int
note	Generic or system generated notes associated with the solution	string
customerComponentId	Where provided, enables a CPQ component to be identified by a customer provided Id for easy identification, future product bundling, and management of a higher number of components.	string
currency	The code associated with a specific currency type, such as USD for United States Dollar	string
condition	Identifies the price conditions to be applied (Supplier, Product Category, Speed, Media Type, and/or Term). A minimum of one condition must be applied.	object
supplierName	Identifies the name of the supplier.	string
cardinality	Related to the how the rule is applied, such as per quote or per location, etc.	string

Error Response Example

```
{}
```

GET CPQ component prices by customer item id

Use this API to retrieve component prices for an existing component by customer item id.

Requirements and Special Considerations

customerItemId and companyId are required parameters.

Request URL

https://api.connected2fiber.com/components/api/v1/cpq/components/customer/{customerItemId}[?companyId]

Request parameters	Characteristic	Description/Requirements
customerItemId	str	A custom ID that's being defined in Create CPQ Component
companyId	int	The Connectbase instance identifier used to identify the company.

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

Success Response Example

```
{
  "content": [
    {
      "id": 1,
      "name": "name1",
      "companyId": 187,
      "createdByAccount": {
        "user": {
          "username": "alex_v",
          "email": "alex_v@email.com",
          "firstName": null,
          "lastName": null
        }
      },
      "updatedByAccount": {
        "user": {
          "username": "alex_v",
          "email": "alex_v@email.com",
          "firstName": null,
          "lastName": null
        }
      },
      "createdAt": "2007-12-03 10:15:30",
      "updatedAt": "2007-12-03 10:15:30",
      "expiresAt": "2025-01-30 00:00:00",
      "cardinality": "Per quote",
      "automatic": false,
      "active": true,
      "deleted": false,
      "customerItemId": "CIID",
      "category": "category1",
      "prices": [
        {
          "id": 10,
          "accessMedium": "Fiber",
          "product": "SONET/TDM",
          "speed": "DS0",
          "term": "12",
          "provider": "Cox",
          "mrcPrice": 10,
          "nrcPrice": 10,
          "mrcCost": 10,
          "nrcCost": 10,
        }
      ]
    }
  ]
}
```

Success Response Example

```
"note": "notes",
"deleted": false,
"customerComponentId": "CCID",
"currency": "USD",
"condition": {
  "id": 20,
  "supplierName": "Cox",
  "accessMedium": "Fiber",
  "product": "Ethernet",
  "speed": "DSO",
  "term": "12",
  "currency": "USD"
}
]
},
{
  "id": 2,
  "name": "name2",
  "companyId": 187,
  "createdByAccount": {
    "user": {
      "username": "alex_v",
      "email": "alex_v@email.com",
      "firstName": null,
      "lastName": null
    }
  },
  "updatedByAccount": {
    "user": {
      "username": "alex_v",
      "email": "alex_v@email.com",
      "firstName": null,
      "lastName": null
    }
  },
  "createdAt": "2007-12-03 10:15:30",
  "updatedAt": "2007-12-03 10:15:30",
  "expiresAt": "2023-01-30 00:00:00",
  "cardinality": "Per location",
  "automatic": false,
  "active": true,
  "deleted": false,
  "customerItemId": "CIID",
  "category": "category2",
  "prices": []
}
],
"pageable": {
  "sort": [],
  "offset": 0,
  "pageNumber": 0,
  "pageSize": 20,
  "unpaged": false,
  "paged": true
},
"last": true,
"totalElements": 2,
"totalPages": 1,
"size": 20,
"number": 0,
"sort": [],
"first": true,
"numberOfElements": 2,
"empty": false
}
```

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
content	object wrapper	object
id	The unique Connectbase Id that is assigned to the company instance.	int
name	The company name.	string
companyId	The Connectbase generated company Id.	int
createdByAccount	User Id of the account creator.	object
user	Object wrapper	object
username	The name of the user who created the account.	string
email	The email address of the contact	string
firstName	The first name of the contact	string
lastName	The last name of the contact	string
updatedByAccount	object wrapper	object
createdAt	The date and time in which the query was performed.	datetime
updatedAt	Date/time of the last update.	datetime
expiresAt	Date/time of expiration.	datetime
automatic	true/false	boolean
active	true/false	boolean
deleted	true/false	boolean
prices	Object wrapper	array
accessMedium	The medium used for connectivity to the building or specified location. <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless - Satellite • Other 	string
product	The name of the product or service.	string
speed	The speed for the product	string
customProductName	Customer provided. Where provided, enables user to define a custom name for a product.	string
term	Indicates the length of the quote in months	string
provider	The name of the service supplier	string
mrcPrice	The monthly price, composed of the cost + margin or markup over the cost.	int

Response Attribute	Attribute Description	Data Type
	The MRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	
nrcPrice	The non-recurring price, composed of the cost + margin or markup over the cost. The NRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
mrcCost	Monthly recurring cost	int
nrcCost	Non recurring cost	int
note	Generic or system generated notes associated with the solution	string
customerComponentId	Where provided, enables a CPQ component to be identified by a customer provided Id for easy identification, future product bundling, and management of a higher number of components.	string
currency	The code associated with a specific currency type, such as USD for United States Dollar	string
condition	Identifies the price conditions to be applied (Supplier, Product Category, Speed, Media Type, and/or Term). A minimum of one condition must be applied.	object
supplierName	Identifies the name of the supplier	string
cardinality	Related to the how the rule is applied, such as per quote or per location, etc.	string
customSpeedName	Customer provided. Where provided, enables the user to define a custom speed name.	string
customerItemId	Customer provided. Where provided is consumed in the CPQ process flow for the component.	string
category	Customer-defined field that may include such designations, for example, as Equipment, Managed Services, Installation, Cross Connect, Other, and can then be referenced by the Rules Engine.	string
prices	Object wrapper	array
pageable	object wrapper	object
sort	Object wrapper	array
offset		int
pageNumber	Indicates the page number	int
pageSize	Indicates the number of records in the result. Default is 100, max is 500.	int
unpaged	true/false	boolean

Response Attribute	Attribute Description	Data Type
paged	true/false	boolean
last	true/false	boolean
totalElements	Indicates the total number of elements	int
totalPages	Indicates the total number of pages in the result set.	int
size	Indicates the number of records on the page.	int
number		int
first	true/false	boolean
numberOfElements	total number of elements	int
empty	true/false	boolean

Error Response Example
{}

GET CPQ components for a given company

Use this API to retrieve components for a specific customer.

Requirements and Special Considerations
companyId is a required parameter. customerId and size are optional.

Request URL
https://api.connected2fiber.com/components/api/v1/cpq/components[?companyId][&customerId][&size]

Request parameters	Characteristic	Description/Requirements
companyId	int	The Connectbase instance identifier used to identify the company.
customerId	string	The item Id for which you are searching.
size	int	The size of the page

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

Success Response Example
<pre>{ "content": [{ "id": 256, "name": "hello 2", "companyId": 187, "createdByAccount": {</pre>

Success Response Example

```
"user": {
  "username": "",
  "email": "e.mikhaleva@connectbase.com",
  "firstName": "Evgenia",
  "lastName": "Mikhaleva"
},
"updatedByAccount": {
  "user": {
    "username": "",
    "email": "e.mikhaleva@connectbase.com",
    "firstName": "Evgenia",
    "lastName": "Mikhaleva"
  }
},
"createdAt": "2022-01-20T11:00:17Z",
"updatedAt": "2022-01-20T11:01:06Z",
"expiresAt": "2023-01-20T22:00:00Z",
"automatic": true,
"active": true,
"deleted": false,
"customerItemId": "cc1",
"category": "equipment",
"prices": [
  {
    "id": 527,
    "accessMedium": null,
    "product": "Ethernet - Switched",
    "speed": "10M",
    "customProductName": "hello 2",
    "customSpeedName": null,
    "term": null,
    "provider": "G8 Networks",
    "mrcPrice": null,
    "nrcPrice": null,
    "mrcCost": null,
    "nrcCost": null,
    "note": null,
    "deleted": false,
    "customerComponentId": null,
    "currency": "USD",
    "condition": {
      "id": 493,
      "supplierName": "Cox Communications",
      "accessMedium": null,
      "product": "Dedicated Internet",
      "speed": "10M",
      "cardinality": "Per quote",
      "term": null
    }
  }
],
{
  "id": 244,
  "name": "moaic test",
  "companyId": 187,
  "createdByAccount": {
    "user": {
      "username": "",
      "email": "j.doe@connectbase.com",
      "firstName": "John",
      "lastName": "Doe"
    }
  },
  "updatedByAccount": {
    "user": {
      "username": "",
```

Success Response Example

```
"email": "e.mikhaleva@connectbase.com",
"firstName": "Evgenia",
"lastName": "Mikhaleva"
}
},
"createdAt": "2022-01-19T11:21:19Z",
"updatedAt": "2022-01-20T09:22:24Z",
"expiresAt": null,
"automatic": true,
"active": false,
"deleted": false,
"customerItemId": null,
"category": null,
"prices": [
  {
    "id": 481,
    "accessMedium": null,
    "product": null,
    "speed": null,
    "customProductName": "moaic test",
    "customSpeedName": null,
    "term": null,
    "provider": "Cox Communications",
    "mrcPrice": 10,
    "nrcPrice": 10,
    "mrcCost": null,
    "nrcCost": null,
    "note": null,
    "deleted": false,
    "customerComponentId": null,
    "currency": "USD",
    "condition": {
      "id": 452,
      "supplierName": "Mosaic NetworX",
      "accessMedium": null,
      "product": null,
      "speed": null,
      "cardinality": "Per quote",
      "term": null
    }
  },
  {
    "id": 482,
    "accessMedium": "Wireless - Fixed",
    "product": null,
    "speed": null,
    "customProductName": "broadband",
    "customSpeedName": null,
    "term": "12",
    "provider": "Cox Communications",
    "mrcPrice": 12,
    "nrcPrice": 12,
    "mrcCost": 123,
    "nrcCost": 123,
    "note": null,
    "deleted": false,
    "customerComponentId": null,
    "currency": "USD",
    "condition": {
      "id": 453,
      "supplierName": "Cox Communications",
      "accessMedium": "Fiber",
      "product": "Dedicated Internet",
      "speed": null,
      "cardinality": "Per quote",
      "term": "12"
    }
  }
]
```

Success Response Example

```
    ]
  }
],
"pageable": {
  "sort": [],
  "offset": 2,
  "pageNumber": 1,
  "pageSize": 2,
  "unpaged": false,
  "paged": true
},
"totalElements": 25,
"totalPages": 13,
"last": false,
"number": 1,
"sort": [],
"size": 2,
"numberOfElements": 2,
"first": false,
"empty": false
}
```

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
content	object wrapper	object
id	The unique Connectbase Id that is assigned to the company instance.	Int
name	The company name.	String
companyId	The Connectbase generated company Id.	int
createdByAccount	User Id of the account creator.	object
user	Object wrapper	object
username	The name of the user who created the account.	string
email	The email address of the contact	string
firstName	The first name of the contact	string
lastName	The last name of the contact	string
updatedByAccount	object wrapper	object
createdAt	The date and time in which the query was performed.	datetime
updatedAt	Date/time last updated	datetime
expiresAt	Date/time for expiration	datetime
automatic	true/false	boolean
active	true/false	boolean
deleted	true/false	boolean
customerItemId	Customer provided. Where provided is consumed in the CPQ process flow for the component.	string
category	Customer-defined field that may include such designations, for example, as Equipment, Managed Services, Installation,	string

Response Attribute	Attribute Description	Data Type
	Cross Connect, Other, and can then be referenced by the Rules Engine.	
prices	Object wrapper	object
accessMedium	The medium used for connectivity to the building or specified location. <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless - Satellite • Other 	string
product	The name of the product or service.	string
speed	The speed for the product	string
customProductName	Customer provided. Where provided enables customer to assign a custom name to a product.	string
term	Indicates the length of the quote in months	string
provider	The name of the service supplier	string
mrcPrice	The monthly price, composed of the cost + margin or markup over the cost. The MRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
nrcPrice	The non-recurring price, composed of the cost + margin or markup over the cost. The NRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
mrcCost	Monthly recurring cost	int
nrcCost	Non recurring cost	int
note	Generic or system generated notes associated with the solution	string
customerComponentId	Where provided, enables a CPQ component to be identified by a customer provided Id for easy identification, future product bundling, and management of a higher number of components.	string
currency	The code associated with a specific currency type, such as USD for United States Dollar	String
condition	Identifies the price conditions to be applied (Supplier, Product Category, Speed, Media Type, and/or Term). A minimum of one condition must be applied.	object

Response Attribute	Attribute Description	Data Type
supplierName	Identifies the name of the supplier	string
cardinality	Related to the how the rule is applied, such as per quote or per location, etc.	string
expiresAt	Date/Time of expiration.	datetime
customerItemId	Customer provided. Where provided is consumed in the CPQ process flow for the component.	string
category	Customer-defined field that may include such designations, for example, as Equipment, Managed Services, Installation, Cross Connect, Other, and can then be referenced by the Rules Engine.	string
product	The name of the product or service.	string
speed	The speed for the product	string
customSpeedName	Customer provided. Where provided, enables the user to define a custom speed name.	string
mrcPrice	The monthly price, composed of the cost + margin or markup over the cost. The MRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
nrcPrice	The non-recurring price, composed of the cost + margin or markup over the cost. The NRC Cost of the product x the % margin over cost, or + the gross \$ margin over cost.	int
accessMedium	The medium used for connectivity to the building or specified location. <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless - Satellite • Other 	string
term	Indicates the length of the quote in months	string
mrcCost	Monthly recurring cost	int
nrcCost	Non recurring cost	int
first	true/false	boolean
pageable	object wrapper	object
sort	Object wrapper	array
offset		int
pageNumber	Indicates the page number	int

Response Attribute	Attribute Description	Data Type
pageSize	Indicates the number of records in the result. Default is 100, max is 500.	int
unpaged	true/false	boolean
paged	true/false	boolean
last	true/false	boolean
totalElements	Indicates the total number of elements	int
totalPages	Indicates the total number of pages in the result set.	int
size	Indicates the number of records on the page.	int
number		int
numberOfElements	total number of elements	int
empty	true/false	boolean

Error Response Example
<pre>{}</pre>

PUT Make CPQ component automatic

Use this API to configure a CPQ component to always automatically be applied.

Requirements and Special Considerations
componentId and companyId are required parameters. automatic is optional.

Request URL
https://api.connected2fiber.com/components/api/v1/cpq/components/{componentId}/automatic?automatic=true

Request parameters	Characteristic	Description/Requirements
componentId	number	A unique CPQ component identifier that is system generated when the component is created.
companyId	int	The Connectbase instance identifier used to identify the company.
automatic	boolean	Defines whether component will be automatically included in CPQ

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

PUT Make CPQ component automatic Success Response Example

200 OK

Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
200 OK	Indicates success	string

PUT Make CPQ component automatic Error Response Example

```
{
  "timestamp": 1648834090712,
  "status": 403,
  "error": "Forbidden",
  "path": "/api/v1/cpq/components/4223/automatic"
}
```


Revision history

Revision	Date	Description
01	September 26, 2022	This is the initial release of this document.
02	September 18, 2023	New publication of the document with minor editorial updates.