

# API for Currency Rates v1 (Direct Sales)

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## Overview

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API that provides support for locking currency rates on Account, Opportunity and Solution objects.

To use currency's ISO code as input/output data, the `isoCode` attribute is required on the Currency master data object.

## API General Info

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### Response Content Type

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It is possible to switch between `json` and `xml` response types by setting an `Accept` header to either `application/json` or `application/xml` respectively.

## Successful Responses

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### Response Codes

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- **200** - The request was executed successfully and the server returned some data. The return content type is specified inside a response header called `content-type`. Example content types are `application/xml`, `application/json`, `application/zip` and `text/plain`.
- **204** - The request was executed successfully and the server returned no data. If the `Location` header was present then the server responded with a redirect.

## Error Responses

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If the API call resulted in an error then the error code will be returned along with the error object in the response body. The error object contains the attributes listed below:

- **type** - type of the error
- **cause** - the root cause of the error
- **message** - message containing details of the related error
- **uuid** - a unique identifier of the error which also may appear in the exception logs
- **timestamp** - the time of the error

**Note:** For chunked responses, the socket will be closed prematurely if an error occurs after the initial chunk containing the status code has been sent.

### Response Codes

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- **400** - The request contains invalid parameters or there are invalid settings. Consult the error message and/or check Administration for invalid settings.
- **401** - The user is not authenticated.
- **403** - The user is not authorized access to the specified endpoint.
- **404** - The specified endpoint does not exist or a request parameter is invalid. Consult the error message.
- **405** - The specified endpoint does not support the requested operation. Consult the error message.
- **409** - The specified endpoint is in a state incompatible with the requested operation. Consult the error message.
- **500** - Unknown error occurred while processing the request. Consult the CPQ logs for more information.
- **504** - The specified concurrent calls limit was exceeded and the server was not able to serve the response in a specified timeout limit. That error is always served with the xml body containing the description.

## Endpoints by Category

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### Currency Rates

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#### **GET /api/currency-rates/v1/[objectType]/[objectId]**

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Get list of currencies with their system and locked rates for the specified object.

Parameter	Type	Description
objectType	String	The type of the object.
objectId	String	The ID of the object.
<i>Result</i>	<a href="#">CurrencyRatesResponse</a>	The currency rates: both locked and not locked (eligible for locking).

#### **POST /api/currency-rates/v1/[objectType]/[objectId]?input=[input]**

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Lock specific currency rates for the specified object. Input currency can be the ISO code, name or id.

Parameter	Type	Description
objectType	String	The type of the object.
objectId	String	The ID of the object.
input	<a href="#">CurrencyRatesToLock</a>	The currency rates to lock.

Parameter	Type	Description
<i>Result</i>	Empty	

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#### **POST /api/currency-rates/v1/[objectType]/[objectId]/sync?input=[input]**

Synchronize currency rates for the specified object by setting currencies' locked rates to be equal to the respective system rates. This will effectively lock the currency rate if it was not locked before. Input currency can be the ISO code, name or id.

Parameter	Type	Description
objectType	String	The type of the object.
objectId	String	The ID of the object.
input	<a href="#">CurrencyList</a>	The currencies to synchronize.
<i>Result</i>	Empty	

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#### **DELETE /api/currency-rates/v1/[objectType]/[objectId]?input=[input]**

Clear locked currency rates for the specified object for given currencies. Input currency can be the ISO code, name or id.

Parameter	Type	Description
objectType	String	The type of the object.
objectId	String	The ID of the object.
input	<a href="#">CurrencyList</a>	The currencies to clear.
<i>Result</i>	Empty	

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## **Data Types by Category**

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### **Currency Rates**

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#### **CurrencyList**

A list of currency ID, name or ISO code

JSON XML

```
{
  "data" : [
    "",
    ...
  ]
}
```

### CurrencyRatesResponse

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JSON XML

```
{
  "data" : [
    {
      "currency" : {
        "id" : "", // Currency ID
        "name" : "", // Currency name
        "code" : "" // Currency ISO code
      }, // Currency details
      "systemRate" : 1.0, // The currency's system conversion rate
      "lockedRate" : 1.0, // The currency's locked conversion rate.
      "lastModified" : 1, // The timestamp of the latest update of t
      "modifiedBy" : {
        "id" : "",
        "name" : ""
      } // The user that last updated the locked rate. Null if the c
    },
    ...
  ],
  "lockedCurrencyRatesLimit" : 1
}
```

### CurrencyRatesToLock

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A map where the key is the currency ID, name or ISO code, and the value is the locked rate to set

JSON XML

```
{
  "data" : {
    "key" : 1.0
  }
}
```