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# Wave REST API Developer Guide

Salesforce, Summer '16





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# WORKING WITH THE WAVE REST API

## Wave REST API Overview


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You can access Wave Analytics datasets and lenses programmatically using the Wave REST API.

Using the Wave REST API, you can:

- Send queries directly to the Wave Platform.
- Access datasets that have been imported into the Wave Platform.
- Create and retrieve Wave Analytics lenses.
- Access XMD information.
- Retrieve a list of dataset versions.
- Create and retrieve Wave Analytics applications.
- Create, update, and retrieve Wave Analytics dashboards.
- Retrieve a list of dependencies for an application.
- Determine what features are available to the user.

The Wave REST API is based on the Chatter REST API and follows its conventions. For more information about the Chatter REST API, see the [Chatter REST API Developer Guide](#).

 **Important:** The internal API, that was previously used in the Wave UI, also labeled as private and for Salesforce only, is not supported. This internal API will remain operational for the next 12 months. However, clients using this internal private API will not have access to any newly created or updated dashboard assets created using tools in the Spring '16 release — for example, the Dashboard Designer, or the new Flex Dashboard Designer (Beta). We encourage developers of such clients to port them to the Wave API GA.

## Wave REST API Authentication

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Salesforce uses the OAuth protocol to allow users of applications to securely access data without having to reveal username and password credentials.

The following sections introduce authentication and provide the steps you need to follow to set up authorization and connect to Wave REST API using OAuth.

## Understanding Authentication

Before making API calls using the Wave API, you must authenticate the application user using [OAuth 2.0](#). To do so, you'll need to do the following:

- [Set up your application as a connected app](#) in the Salesforce organization.
- Determine the correct Salesforce [OAuth endpoint](#) for your connected app to use.
- Authenticate the connected app user via one of several different OAuth 2.0 authentication flows. An OAuth authentication flow defines a series of steps used to coordinate the authentication process between your application and Salesforce. Supported OAuth flows include the following:

- [Web server flow](#), where the server can securely protect the consumer secret.
- [User-agent flow](#), used by applications that cannot securely store the consumer secret.
- [Username-password flow](#), where the application has direct access to user credentials.

## Set Up Authorization

Create a connected app in a Salesforce organization and enable OAuth. The client application uses the connected app to connect to Salesforce.


1. In your Salesforce organization, from Setup, click [Create | Apps](#), and in the [Connected Apps](#) section, click [New](#) to create a new connected app.
2. Clients can use a connected app to sign in to any organization, even if the connected app isn't defined in that organization.
3. Enter a connected app name.
4. Select [Enable OAuth Settings](#).
5. Enter a [Callback URL](#). It must be secure: use `https://` and *not* `http://`.
6. Enter an OAuth scope. Select [Access and manage your data \(api\)](#) in addition to any other scope you want your connected app to allow access to.
7. Click [Save](#).
8. The [Consumer Key](#) is created and displayed, and a [Consumer Secret](#) is created (click the link to reveal it).

## Connect to Wave REST API Using OAuth

Use OAuth to connect to Salesforce and get an access token. Pass the access token in requests to Wave API.

This table maps the terms used in the connected app you created to the OAuth properties used in the examples. The OAuth 2.0 specification uses the word “client” instead of “consumer.”

Connected App Application Label	Value in Example
Consumer Key	<code>client_id Key</code>
Consumer Secret	<code>client_secret</code>

 **Note:** The instructions here use the username-password OAuth authentication flow. The username-password authentication flow passes the user's credentials back and forth. Use this authentication flow only when necessary. No refresh token will be issued.

To make a request to Salesforce, substitute values from your organization into these examples:

1. Generate the access token.

This cURL command generates an access token:

```
curl --form
client_id=3MVG9PhR6g6B7ps4xDycwGrI4PvjVZvK9
--form client_secret=8870355475032095511
--form grant_type=password
--form username=admin@seattleapps.com
```

```
--form password=1Lsfdc!
https://login.salesforce.com/services/oauth2/token
```

 **Note:** To paste a multiline command into a Mac or Linux command line interface, escape each line with a backslash ( \ ) to indicate that the command continues on the next line. An escaped line looks like this:

```
curl --form client_id=3MVG9PhR6g6B7ps4xDycwGrI4PvjVZvK9 \
```

To paste a multi-line command into the Windows Command Prompt, escape each line with a caret ( ^ ). An escaped line looks like this:

```
curl --form client_id=3MVG9PhR6g6B7ps4xDycwGrI4PvjVZvK9 ^
```

The response includes the server instance and the access token:

```
{
  "id": "https://login.salesforce.com/id/00Di0000000hT9uEAE/005i00000022uIbAAI",
  "issued_at": "1302907727777",
  "instance_url": "https://yourInstance.salesforce.com",
  "signature": "5jcevY5fUai0lWntuSxkwBzWcvRjd01RCOkIBZpyGv0=",
  "access_token": "00DD000000FJ6T!AQkAQpde_DMF2vGzddfZmBRS95GojDbtA
rKkgukAgZP0OVFY5KkAqhLw9ejeKIlpJ3FgwGAWeRlBiWRt8mfXEuAZGbZNosk"
}
```

- To request a Wave REST API resource, use the returned `instance_url` as the server instance. Pass the returned `access_token` as a Bearer token in the Authorization request header.

```
curl -X GET https://yourInstance.salesforce.com/services/data/v36.0/wave
-H 'Authorization: Bearer 00DD000000FJ6T!AQkAQpde_DMF2vGzddfZmBRS95Goj
DbtArKkgukAgZP0OVFY5KkAqhLw9ejeKIlpJ3FgwGAWeRlBiWRt8mfXEuAZGbZNosk'
```

Property	Value in Example
Server instance	yourInstance.salesforce.com
client_id	3MVG9PhR6g6B7ps4xDycwGrI4PvjVZvK9
client_secret	8870355475032095511
grant_type	password The value of <code>grant_type</code> depends on the OAuth authentication flow you use
username	admin@seattleapps.com
password	1Lsfdc!

# WAVE REST API REFERENCE

## Wave REST API Resources Overview

The Wave REST API provides resources so you can access your Wave Analytics data.

All Wave REST API resources are accessed using:

- A base URI for your company (for example, `https://yourInstance.salesforce.com`)
- Version information (for example, `/services/data/v37.0`)
- A named resource (for example, `/wave`)

Put together, an example of the full URL to the resource is:

```
https://yourInstance.salesforce.com/services/data/v37.0/wave
```

Resource	Description	Supported HTTP Method	Resource URL
<a href="#">Wave Resource</a>	Lists the top-level resources available for Wave Analytics.	GET	<code>/wave</code>
<a href="#">Query Resource</a>	Executes a query written in Salesforce Analytics Query Language (SAQL).	POST	<code>/wave/query</code>
<a href="#">Datasets List Resource</a>	Returns a list of Wave Analytics datasets.	GET	<code>/wave/datasets</code>
<a href="#">Dataset Resource</a>	Returns the Wave Analytics dataset with the specified ID, deletes a dataset (DELETE), or updates a dataset (PATCH).	GET, DELETE, PATCH	<code>/wave/datasets/&lt;dataset ID&gt;</code>
<a href="#">Versions List Resource</a>	Returns a collection of dataset versions for a particular dataset.	GET	<code>/wave/datasets/&lt;dataset ID&gt;/versions</code>
<a href="#">Version Resource</a>	Returns a Wave Analytics dataset version (GET), or updates the predicate (PATCH).	GET, PATCH	<code>/wave/datasets/&lt;dataset ID&gt;/versions/&lt;version ID&gt;</code>
<a href="#">File Resource</a>	Provides access to the binary content of the dataset file.	GET	<code>/wave/datasets/&lt;dataset ID&gt;/versions/&lt;version ID&gt;/files/&lt;file ID&gt;</code>
<a href="#">XMD List Resource</a>	Returns a list of XMD resources for a version of a dataset.	GET	<code>/wave/datasets/&lt;dataset ID&gt;/versions/&lt;version ID&gt;/xmds</code>
<a href="#">XMD Resource</a>	Returns the extended metadata (XMD) for a version of a dataset (GET).	GET	<code>/wave/datasets/&lt;dataset ID&gt;/versions/&lt;version ID&gt;/xmds/&lt;XMD type&gt;</code>



Resource	Description	Supported HTTP Method	Resource URL
<a href="#">Lenses List Resource</a>	Returns a list of Wave Analytics lenses (GET), or creates a lens (POST).	GET, POST	<code>/wave/lenses</code>
<a href="#">Lens Resource</a>	Returns a JSON file that describes the structure of a Wave Analytics lens with the specified ID (GET), deletes a lens (DELETE), or updates a lens (PATCH).	GET, DELETE, POST	<code>/wave/lenses/&lt;lens ID&gt;</code>
<a href="#">Lens File Resource</a>	Returns a file that is part of a Wave Analytics lens.	GET, PUT	<code>/wave/lenses/&lt;lenses ID&gt;/files/&lt;files ID&gt;</code>
<a href="#">Dashboards List Resource</a>	Returns a list of Wave Analytics dashboards, or creates a dashboard.	GET, POST	<code>/wave/dashboards</code>
<a href="#">Dashboard Resource</a>	Returns or updates the Wave Analytics dashboard with the specified ID.	GET, DELETE, PATCH	<code>/wave/dashboards/&lt;dashboard ID&gt;</code>
<a href="#">Dependencies Resource</a>	Returns the dependencies for an application (folder).	GET	<code>/wave/dependencies/&lt;folder ID&gt;</code>
<a href="#">Folders List Resource</a>	Creates a Wave Analytics application (POST), which is a folder that contains Wave datasets, lenses, and dashboards, or returns a collection of applications or folders (GET).	GET, POST	<code>/wave/folders</code>
<a href="#">Folder Resource</a>	Returns the representation for a Wave Analytics application or folder (GET), replaces an application or folder (PUT), updates it (PATCH), or deletes it (DELETE).	GET, PUT, PATCH, DELETE	<code>/wave/folders/&lt;folder ID&gt;</code>
<a href="#">Templates List Resource</a>	Returns list of Wave Analytics templates.	GET	<code>/wave/templates</code>
<a href="#">Templates Resource</a>	Returns list of Wave Analytics templates.	GET	<code>/wave/templates/&lt;templateIdOrApiName&gt;</code>
<a href="#">Templates Configuration Resource</a>	Returns the configuration of a Wave Analytics template.	GET	<code>/wave/templates/&lt;templateIdOrApiName&gt;/configuration</code>
<a href="#">Lens File Metadata Resource</a>	Resource for management of Wave lens file metadata.	GET, POST	<code>/wave/lenses/&lt;lensId&gt;/files</code>
<a href="#">Features Configuration Resource</a>	The Wave features that are available to a user.	GET	<code>/wave/config/features</code>

Resource	Description	Supported HTTP Method	Resource URL
<a href="#">Annotations List Resource</a> on page 87	A collection of annotations.	GET, POST	<code>/wave/annotations</code>
<a href="#">Annotations Resource</a> on page 88	An asset's annotations.	GET, PATCH	<code>/wave/annotations/&lt;Annotation ID&gt;</code>
<a href="#">Template Release Notes Resource</a> on page 89	Resource for retrieving the release notes for a single Wave Analytics Template.	GET	<code>/wave/templates/&lt;templateIdOrApiName&gt;/releasenotes</code>

## Filtering REST Responses

Returns the representation for a Wave Analytics application or folder (GET), replaces an application or folder (PUT), updates it (PATCH), or deletes it (DELETE).

In addition to Wave REST API input parameters, you can use the following Chatter REST API input parameters to filter the results returned from a request: `filterGroup`, `external`, and `internal`. For more information, see [Specifying Response Sizes](#) in the *Chatter REST API Developer Guide*.

## Wave Resource

Lists the top-level resources available for Wave Analytics.

### Resource URL

```
/wave
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET

### GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
<code>datasets</code>	String	The URL to the datasets resource for the organization.	Small, 36.0	36.0
<code>lenses</code>	String	The URL to the lenses resource for the organization.	Small, 36.0	36.0
<code>query</code>	String	The URL to the query resource for the organization.	Small, 36.0	36.0

**Example Response Body**

```
{
  "datasets" : "/services/data/v37.0/wave/datasets",
  "lenses" : "/services/data/v37.0/wave/lenses",
  "query" : "/services/data/v37.0/wave/query"
}
```

## Query Resource

---

Executes a query written in Salesforce Analytics Query Language (SAQL).

**Resource URL**

```
/wave/query
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

POST

**POST Request Body**

Property Name	Type	Description	Required or Optional	Available Version
query	String	The SAQL query in JSON format.	Required	36.0

**Example Request Body**

```
{
  "query": "q = load \"0Fbxx0000000006CAA/0Fcxx000000001dCAA\";
  q = group q by 'FirstName';
  q = foreach q generate 'FirstName' as 'FirstName', count() as 'count';
  q = limit q 2000;"
}
```

**POST Response Body**

Property Name	Type	Description	Filter Group and Version	Available Version
json	String	The results of a SAQL query, in JSON format.	Small, 36.0	36.0

**Example Response Body**

```
{
  "action": "query",
```

```

"responseId": "3vy-E9YmX-TIWe0769juD-",
"results": {
  "records": [
    {"FirstName": "", "count": 1},
    {"FirstName": "Admin", "count": 1},
    {"FirstName": "Integration", "count": 1},
    {"FirstName": "Security", "count": 1}]]},
"query": "q = load \"0Fbxx000000006CAA/0Fcxx000000001dCAA\";
q = group q by 'FirstName';
q = foreach q generate 'FirstName' as 'FirstName', count() as 'count';
q = limit q 2000;";
"responseTime": 544
}

```

For more information about creating SAQL queries, see [Wave Analytics SAQL Reference](#).

## Datasets List Resource

Returns a list of Wave Analytics datasets.

You can filter the results to include only those datasets that have a current dataset version defined by using the `hasCurrentOnly` parameter. You can also request supplemental information about datasets that have a current dataset version defined by using the `filterGroup` parameter. For example, the following GET request sets these parameters:

```
/wave/datasets?hasCurrentOnly=true&filterGroup=Supplemental
```

This request filters the list of datasets and adds the following supplemental fields to the output representation:

- `currentVersionCreatedBy`
- `currentVersionCreatedDate`
- `currentVersionLastModifiedBy`
- `currentVersionLastModifiedDate`

For more information about the `filterGroup` parameter, see [Specifying Response Sizes](#) in the *Chatter REST API Developer Guide*.

### Resource URL

```
/wave/datasets
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET

### GET Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
<code>folderId</code>	ID	Filters the results to include only the contents of a specific folder. Can be the	Optional	36.0

Parameter Name	Type	Description	Required or Optional	Available Version
		requesting user's ID for items in the user's private folder.		
hasCurrentOnly	Boolean	Filters the list of datasets to include only those datasets that have a current version. The default is <code>false</code> .	Optional	36.0
page	String	A generated token that indicates the view of datasets to be returned.	Optional	36.0
pageSize	Int	Number of items to be returned in a single page. Minimum is 1, maximum is 200, and default is 25.	Optional	36.0
q	String	Search terms. Individual terms are separated by spaces. Wild cards aren't supported.	Optional	36.0
sort	Enum	Sort order of the results. Values are: <ul style="list-style-type: none"> <li>• <code>LastModified</code></li> <li>• <code>Mru</code>: Most recently used (last viewed date)</li> <li>• <code>Name</code></li> </ul> The default value is <code>Mru</code> .	Optional	36.0

### GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
datasets	<a href="#">Dataset Resource</a> []	List of datasets available to the current user.	Small, 36.0	36.0
nextPageUrl	String	The URL to retrieve the next page of contents in the collection.	Small, 36.0	36.0
totalSize	Integer	The total count of the elements in the collection, including all pages.	Medium, 36.0	36.0
url	String	The URL to retrieve the collection.	Small, 36.0	36.0

### Example Response Body

```
{
  "datasets" : [ "/* Datasets detail omitted for brevity. */" ],
  "nextPageUrl" : "/services/data/v36.0/wave/datasets?page=eyJwYWdlU2l6ZSI6MjUsInNv",
  "totalSize" : 33,
```

```
"url" : "/services/data/v36.0/wave/datasets"
}
```

## Dataset Resource

Returns the Wave Analytics dataset with the specified ID, deletes a dataset (DELETE), or updates a dataset (PATCH).

### Resource URL

```
/wave/datasets/<dataset ID>
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET, DELETE, and PATCH

### PATCH Request Body

Property Name	Type	Description	Required or Optional	Available Version
currentVersionId	ID	The 18-character ID of the current version of this dataset.	Optional	36.0
description	String	The description of the dataset.	Optional	36.0
folder	ID	The 18-character ID of the folder that contains the dataset. To patch the folder, you must have edit access to the current and new folders.	Optional	36.0
label	String	The label of the dataset.	Optional	36.0
name	String	The name of the dataset.	Optional	36.0



**Note:** Patching of developer names for datasets is not allowed. Dataflows reference datasets by using their developer names, and changing names can lead to broken dataflows.

### GET and PATCH Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
assetSharingUrl	String	Sharing URL for the asset.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
createdBy	<a href="#">Wave User</a>	The creator of the dataset.	Small, 36.0	36.0
createdDate	Date	The time at which the dataset was created, in ISO8601 date format.	Small, 36.0	36.0
currentVersionCreatedBy	<a href="#">Wave User</a>	The creator of the current version of the dataset. Only returned if the <code>filterGroup</code> input parameter is set to <code>Supplemental</code> .	Supplemental, 36.0	36.0
currentVersionCreatedDate	Date	The time at which the current version of the dataset was created, in ISO8601 date format. Only returned if the <code>filterGroup</code> input parameter is set to <code>Supplemental</code> .	Supplemental, 36.0	36.0
currentVersionId	ID	The 18-character ID of the current dataset version.	Small, 36.0	36.0
currentVersionLastModifiedBy	<a href="#">Wave User</a>	The user who last updated the current version of the dataset. Only returned if the <code>filterGroup</code> input parameter is set to <code>Supplemental</code> .	Supplemental, 36.0	36.0
currentVersionLastModifiedDate	Date	The last time the current version of the dataset was modified, in ISO8601 date format. Only returned if the <code>filterGroup</code> input parameter is set to <code>Supplemental</code> .	Supplemental, 36.0	36.0
currentVersionUrl	String	The URL for the current dataset version.	Small, 36.0	36.0
description	String	Short description of the asset.	Small, 36.0	36.0
folder	<a href="#">Asset Reference Representation</a>	A reference to the folder in which this dataset is stored.	Small, 36.0	36.0
id	ID	The 18-character ID of the dataset.	Small, 36.0	36.0
label	String	The label of the dataset.	Small, 36.0	36.0
lastAccessedDate	Date	The last time the dataset was accessed, in ISO8601 date format.	Small, 36.0	36.0
lastModifiedBy	<a href="#">Wave User</a>	The user who last updated the dataset.	Small, 36.0	36.0
lastModifiedDate	Date	The last time the dataset was modified, in ISO8601 date format.	Small, 36.0	36.0
name	String	The dataset name.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
namespace	String	The namespace of the Asset.	Small, 36.0	36.0
permissions	<a href="#">Permissions</a>	The permissions for the current user.	Small, 36.0	36.0
type	String	The asset type. For datasets, the value is <code>dataset</code> .	Small, 36.0	36.0
url	String	The URL to the resource for the dataset.	Small, 36.0	36.0
versionsUrl	String	The URL for dataset versions.	Small, 36.0	36.0

### Wave User

Property Name	Type	Description	Filter Group and Version	Available Version
id	ID	The 18-character user ID.	Small, 36.0	36.0
name	String	The name of the user.	Small, 36.0	36.0
profilePhotoUrl	String	The Chatter profile photo of the user.	Small, 36.0	36.0

### Permissions

Property Name	Type	Description	Filter Group and Version	Available Version
manage	Boolean	Indicates whether a user can manage access control on an asset.	Small, 36.0	36.0
modify	Boolean	Indicates whether a user can modify an asset.	Small, 36.0	36.0
view	Boolean	Indicates whether a user can view an asset.	Small, 36.0	36.0

### AssetReferenceRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The 18 character ID of the asset.	Small, 36.0	36.0
label	String	The asset label.	Small, 36.0	36.0
name	String	The asset developer name.	Small, 36.0	36.0
namespace	String	The namespace that qualifies the asset name	Small, 37.0	37.0



Property Name	Type	Description	Filter Group and Version	Available Version
url	String	The asset URL.	Small, 36.0	36.0

### Example Response Body

```
{
  "createdBy" : {
    "id" : "005D00000018LSoIAM",
    "name" : "User Name",
    "profilePhotoUrl" : "https://yourInstance.salesforce.com/profilephoto/005/T"
  },
  "createdDate" : "2015-03-25T20:27:34.000Z",
  "currentVersionId" : "0FcD00000000183KAA",
  "currentVersionUrl" :
"/services/data/v36.0/wave/datasets/0FbD000000000huKAA/versions/0FcD00000000183KAA",
  "folderId" : "005D00000018LSoIAM",
  "id" : "0FbD000000000huKAA",
  "label" : "OppHistory",
  "lastAccessedDate" : "2015-03-27T18:31:39.000Z",
  "lastModifiedBy" : {
    "id" : "005D00000018LT8IAM",
    "name" : "Integration User",
    "profilePhotoUrl" : "https://yourInstance.salesforce.com/profilephoto/005/U"
  },
  "lastModifiedDate" : "2015-03-25T20:27:44.000Z",
  "name" : "OppHistory",
  "permissions" : {
    "modify" : true,
    "view" : true
  },
  "type" : "dataset",
  "url" : "/services/data/v36.0/wave/datasets/0FbD000000000huKAA"
}
```

## Versions List Resource

Returns a collection of dataset versions for a particular dataset.

### Resource URL

```
/wave/datasets/<dataset ID>/versions
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET

**GET Response Body**

Property Name	Type	Description	Filter Group and Version	Available Version
url	String	The URL to retrieve the collection.	Small, 36.0	36.0
versions	<a href="#">Dataset Version</a> []	The collection of dataset versions for a particular dataset.	Small, 36.0	36.0

**Example Response Body**

```
{
  "url" : "/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions",
  "versions" : [ {
    "createdBy" : {
      "id" : "00540000000DhrEAAS",
      "name" : "Integration User",
      "profilePhotoUrl" :
"https://https://yourInstance.salesforce.com/profilephoto/005/T"
    },
    "createdDate" : "2015-05-20T23:19:33.000Z",
    "dataset" : {
      "id" : "0Fb400000000FtCAI",
      "url" : "/services/data/v36.0/wave/datasets/0Fb400000000FtCAI"
    },
    "files" : [ ],
    "id" : "0Fc4000000001VOCAY",
    "lastModifiedBy" : {
      "id" : "00540000000DhrEAAS",
      "name" : "Integration User",
      "profilePhotoUrl" :
"https://https://yourInstance.salesforce.com/profilephoto/005/T"
    },
    "lastModifiedDate" : "2015-05-20T23:19:49.000Z",
    "permissions" : {
      "modify" : true,
      "view" : true
    },
    "type" : "datasetversion",
    "url" :
"/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions/0Fc4000000001VOCAY",
    "xmdsUrl" :
"/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions/0Fc4000000001VOCAY/xmds"
  } ]
}
```

## Version Resource

Returns a Wave Analytics dataset version (GET), or updates the predicate (PATCH).

**Resource URL**

```
/wave/datasets/<dataset ID>/versions/<version ID>
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET and PATCH

**GET and PATCH Response Body**

Property Name	Type	Description	Filter Group and Version	Available Version
createdBy	<a href="#">Wave User</a>	The creator of the dataset.	Small, 36.0	36.0
createdDate	Date	The time at which the dataset was created, in ISO8601 date format.	Small, 36.0	36.0
dataset	<a href="#">Dataset Reference</a>	A reference to the dataset.	Small, 36.0	36.0
files	<a href="#">WaveFileMetadata Representation[]</a>	List of information about the data files that make up the dataset version.	Medium, 36.0	36.0
id	ID	The 18-character dataset ID.	Small, 36.0	36.0
lastModifiedBy	<a href="#">Wave User</a>	The user who last updated the dataset.	Small, 36.0	36.0
lastModifiedDate	Date	The last time the dataset was modified, in ISO8601 date format.	Small, 36.0	36.0
permissions	<a href="#">Permissions</a>	The permissions for the current user.	Small, 36.0	36.0
predicate	String	The row-level security predicate. Only returned if the predicate is set in the input request.	Small, 36.0	36.0
predicateVersion	Double	The version of the row-level security predicate. Only returned if the predicate is set in the input request.	Small, 36.0	36.0
type	String	The asset type. For dataset versions, the value is <code>datasetversion</code> .	Small, 36.0	36.0
url	String	The URL to the resource for the dataset version.	Small, 36.0	36.0
xmdMain	<a href="#">XMD</a>	The extended metadata (XMD) for this dataset version.	Medium, 36.0	36.0
xmdsUrl	String	The URL of the XMD collection resource for this dataset version.	Small, 36.0	36.0

## Dataset Reference

Property Name	Type	Description	Filter Group and Version	Available Version
id	ID	The 18-character ID of the dataset.	Small, 36.0	36.0
url	String	The URL of the dataset.	Small, 36.0	36.0

## Example Response Body

```
{
  "createdBy" : {
    "id" : "005D00000001VHeYIAW",
    "name" : "Integration User",
    "profilePhotoUrl" : "https://yourInstance.salesforce.com/profilephoto/005/T"
  },
  "createdDate" : "2015-04-20T20:17:54.000Z",
  "dataset" : {
    "id" : "0FbD00000004CoMKAU",
    "url" : "/services/data/v36.0/wave/datasets/0FbD00000004CoMKAU"
  },
  "files" : [ ],
  "id" : "0FcD00000004DRyKAM",
  "lastModifiedBy" : {
    "id" : "005D00000001VHeYIAW",
    "name" : "Integration User",
    "profilePhotoUrl" : "https://yourInstance.salesforce.com/profilephoto/005/T"
  },
  "lastModifiedDate" : "2015-04-20T20:18:14.000Z",
  "permissions" : {
    "modify" : true,
    "view" : true
  },
  "type" : "datasetversion",
  "url" :
  "/services/data/v36.0/wave/datasets/0FbD00000004CoMKAU/versions/0FcD00000004DRyKAM"
}
```

## PATCH Request Body

Name	Type	Description	Required or Optional	Available Version
predicate	String	The row-level security predicate to be applied to this dataset version.  For more information about creating the predicate, see <i>Security Implementation Guide for Wave Analytics</i> .	Required	36.0

**Example Request Body**

```
{
  "predicate" : "<predicate value>"
}
```

**PATCH Response Body**[Dataset Version](#)

## File Resource

---

Provides access to the binary content of the dataset file.



**Note:** This resource is accessible only to administrators with the Manage Wave Analytics user permission.

**Resource URL**

```
/wave/datasets/<dataset ID>/versions/<version ID>/files/<file ID>
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET

**GET Response Body**

Returns the binary content of the dataset file.

## XMD List Resource

---

Returns a list of XMD resources for a version of a dataset.

**Resource URL**

```
/wave/datasets/<dataset ID>/versions/<version ID>/xmds
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET

**GET Response Body**

Property Name	Type	Description	Filter Group and Version	Available Version
url	String	The location of the XMD collection.	Small, 36.0	36.0
xmds	<a href="#">XMD Metadata</a> []	The list of XMD resources.	Small, 36.0	36.0

**XMD Metadata**

Property Name	Type	Description	Filter Group and Version	Available Version
type	String	The type of XMD. Values are: <ul style="list-style-type: none"> <li>main</li> <li>system</li> <li>user</li> </ul>	Small, 36.0	36.0
url	String	The location of this XMD.	Small, 36.0	36.0

**Example Response Body**

```
{
  "url" :
  "/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions/0Fc400000001VOCAI/xmds",

  "xmds" : [ {
    "type" : "main",
    "url" :
    "/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions/0Fc400000001VOCAI/xmds/main"

  }, {
    "type" : "user",
    "url" :
    "/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions/0Fc400000001VOCAI/xmds/user"

  }, {
    "type" : "system",
    "url" :
    "/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions/0Fc400000001VOCAI/xmds/system"

  } ]
}
```

## XMD Resource

Returns the extended metadata (XMD) for a version of a dataset (GET).

**Resource URL**

```
/wave/datasets/<dataset ID>/versions/<version ID>/xmds/main
```

```
/wave/datasets/<dataset ID>/versions/<version ID>/xmds/system
```

```
/wave/datasets/<dataset ID>/versions/<version ID>/xmds/user
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET

**GET Response Body**

Property Name	Type	Description	Filter Group and Version	Available Version
createdBy	<a href="#">Wave User</a>	The creator of the XMD.	Small, 36.0	36.0
createdDate	Date	The time at which the XMD was created, in ISO8601 date format.	Small, 36.0	36.0
dataset	<a href="#">XMD Dataset</a>	Locale-specific information about the dataset represented by this XMD.	Small, 36.0	36.0
dates	<a href="#">XMD Date[]</a>	A list of dates with formatting information.	Small, 36.0	36.0
derivedDimensions	<a href="#">XMD Dimension[]</a>	A list of derived dimensions with formatting information.	Small, 36.0	36.0
derivedMeasures	<a href="#">XMD Measure[]</a>	List of derived measures with formatting information.	Small, 36.0	36.0
dimensions	<a href="#">XMD Dimension[]</a>	List of dimensions with formatting information.	Small, 36.0	36.0
errorMessage	String	Message if there was error copying forward the current version's user XMD to the newly created version.	Small, 37.0	37.0
language	String	The language in which this XMD is localized. Values are: <ul style="list-style-type: none"> <li>• bg: Bulgarian</li> <li>• zh_CN: Chinese Simplified</li> <li>• zh_TW: Chinese Traditional</li> <li>• hr: Croatian</li> <li>• cs: Czech</li> <li>• da: Danish</li> <li>• nl_NL: Dutch</li> <li>• en: English</li> <li>• en_GB: English (United Kingdom)</li> <li>• fi: Finnish</li> <li>• fr: French</li> <li>• de: German</li> </ul>	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> <li>• e1: Greek</li> <li>• hu: Hungarian</li> <li>• in: Indonesian</li> <li>• it: Italian</li> <li>• ja: Japanese</li> <li>• ko: Korean</li> <li>• no: Norwegian</li> <li>• pl: Polish</li> <li>• pt_PT: Portuguese (Portugal)</li> <li>• pt_BR: Portuguese (Brazil)</li> <li>• ro: Romanian</li> <li>• ru: Russian</li> <li>• sk: Slovak</li> <li>• sl: Slovenian</li> <li>• es: Spanish</li> <li>• es_MX: Spanish (Mexico)</li> <li>• sv: Swedish</li> <li>• th: Thai</li> <li>• tr: Turkish</li> <li>• uk: Ukrainian</li> <li>• vi: Vietnamese</li> </ul>		
lastModifiedBy	<a href="#">Wave User</a>	The user who last updated the XMD.	Small, 36.0	36.0
lastModifiedDate	Date	The last time the XMD was modified, in ISO8601 date format.	Small, 36.0	36.0
measures	<a href="#">XMD Measure[]</a>	List of measures with formatting information.	Small, 36.0	36.0
organizations	<a href="#">XMD Organization[]</a>	List of organizations for multi-organization support.	Small, 36.0	36.0
showDetailsDefaultFields	String[]	Ordered list of dimensions and measures. The list defines the default order in which to show the dimensions and measures in the user interface.	Small, 36.0	36.0
type	String	The type of XMD. Values are: <ul style="list-style-type: none"> <li>• main</li> <li>• system</li> <li>• user</li> </ul>	Small, 36.0	36.0



Property Name	Type	Description	Filter Group and Version	Available Version
url	String	The location where this XMD is stored.	Small, 36.0	36.0

### XMD Dataset

Property Name	Type	Description	Filter Group and Version	Available Version
connector	String	The connector source for the dataset.	Small, 36.0	36.0
description	String	The description of the dataset.	Small, 36.0	36.0
fullyQualifiedName	String	The fully qualified name of the dataset version.	Small, 36.0	36.0
origin	String	The origin of the dataset version.	Small, 36.0	36.0

### XMD Date

Property Name	Type	Description	Filter Group and Version	Available Version
alias	String	The alias of the date column.	Small, 36.0	36.0
compact	Boolean	Indicates whether the date is displayed as compact.	Small, 36.0	36.0
description	String	The description of the date column.	Small, 36.0	36.0
fields	<a href="#">XMD Date Field</a>	Formatting information for the date fields.	Small, 36.0	36.0
firstDayOfWeek	Integer	The first day of the week. Use 0 to set the first day to be Sunday, 1 to set the first day to be Monday, and so on.	Small, 36.0	36.0
fiscalMonthOffset	Integer	The offset, in months, that the fiscal year differs from the calendar year. Represented as the month number - 1. For example, if the fiscal year starts in January, the offset is 0 (1 - 1). If the fiscal year starts in October, the offset is 9 (10 - 1).	Small, 36.0	36.0
isYearEndFiscalYear	Boolean	Indicates whether the year end is based on the fiscal year.	Small, 36.0	36.0
label	String	The label of the date column.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
showInExplorer	Boolean	Indicates whether the date is displayed in the explorer.	Small, 36.0	36.0

### XMD Date Field

Property Name	Type	Description	Filter Group and Version	Available Version
day	String	The day field.	Small, 36.0	36.0
epochDay	String	The epoch day field.	Small, 36.0	36.0
epochSecond	String	The epoch second field.	Small, 36.0	36.0
fiscalMonth	String	The fiscal month field.	Small, 36.0	36.0
fiscalQuarter	String	The fiscal quarter field.	Small, 36.0	36.0
fiscalWeek	String	The fiscal week field.	Small, 36.0	36.0
fiscalYear	String	The fiscal year field.	Small, 36.0	36.0
fullField	String	The full-field field.	Small, 36.0	36.0
hour	String	The hour field.	Small, 36.0	36.0
minute	String	The minute field.	Small, 36.0	36.0
month	String	The month field.	Small, 36.0	36.0
quarter	String	The quarter field.	Small, 36.0	36.0
second	String	The second field	Small, 36.0	36.0
week	String	The week field.	Small, 36.0	36.0
year	String	The year field.	Small, 36.0	36.0

### XMD Dimension

Property Name	Type	Description	Filter Group and Version	Available Version
customActions	<a href="#">XMD Dimension Custom Action[]</a>	Custom actions linked to this dimension.	Small, 36.0	36.0
customActionsEnabled	Boolean	Indicates whether the dimension has custom actions enabled.	Small, 36.0	36.0
dateFormat	String	The format used for a date that is a dimension.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
description	String	The description of the dimension.	Small, 36.0	36.0
field	String	The field name of the dimension (used in queries).	Small, 36.0	36.0
fullyQualifiedName	String	The fully qualified name of the dimension.	Small, 36.0	36.0
imageTemplate	String	The image template.	Small, 36.0	36.0
isMultiValue	Boolean	Indicates whether the dimension is multi-value.	Small, 36.0	36.0
label	String	The label for the dimension.	Small, 36.0	36.0
linkTemplate	String	The template for formatting a link.	Small, 36.0	36.0
linkTemplateEnabled	Boolean	Indicates whether the dimension has link templates enabled.	Small, 36.0	36.0
linkTooltip	String	The tooltip to be displayed for links.	Small, 36.0	36.0
members	<a href="#">XMD Dimension Member[]</a>	The member overrides for a dimension.	Small, 36.0	36.0
origin	String	The origin of this dimension.	Small, 36.0	36.0
recordDisplayFields	String[]	Ordered list of dimensions and measures. The list defines the default order to in which to display the dimensions and measures in the user interface.	Small, 36.0	36.0
recordIdField	String	The record ID for this dimension.	Small, 36.0	36.0
recordOrganizationIdField	String	The record organization ID for this dimension.	Small, 36.0	36.0
salesforceActions	<a href="#">XMD Dimension Salesforce Action[]</a>	Salesforce actions linked to this dimension.	Small, 36.0	36.0
salesforceActionsEnabled	Boolean	Indicates whether the dimension has Salesforce actions enabled.	Small, 36.0	36.0
showInExplorer	Boolean	Indicates whether the dimension is displayed in the explorer.	Small, 36.0	36.0

**XMD Dimension Custom Action**

Property Name	Type	Description	Filter Group and Version	Available Version
enabled	Boolean	Indicates whether the action is enabled for a specific dimension.	Small, 36.0	36.0
icon	String	The icon for the action.	Small, 36.0	36.0
method	String	The method for the action.	Small, 36.0	36.0
name	String	The name of the action.	Small, 36.0	36.0
target	String	The target for the action.	Small, 36.0	36.0
tooltip	String	The tooltip for the action.	Small, 36.0	36.0
url	String	The URL for the action.	Small, 36.0	36.0

**XMD Dimension Member**

Property Name	Type	Description	Filter Group and Version	Available Version
color	String	The color for the member.	Small, 36.0	36.0
label	String	The label for the member.	Small, 36.0	36.0
member	String	The member value.	Small, 36.0	36.0

**XMD Dimension Salesforce Action**

Property Name	Type	Description	Filter Group and Version	Available Version
enabled	Boolean	Indicates whether the action is enabled for a specific dimension.	Small, 36.0	36.0
name	String	The name of the action.	Small, 36.0	36.0

**XMD Measure**

Property Name	Type	Description	Filter Group and Version	Available Version
dateFormat	String	The format used for a date that is a measure.	Small, 36.0	36.0
description	String	The description of the measure.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
field	String	The field name of the measure (used in queries).	Small, 36.0	36.0
format	<a href="#">XMD Measure Format</a>	The format details for the measure.	Small, 36.0	36.0
fullyQualifiedName	String	The fully qualified name of the measure.	Small, 36.0	36.0
label	String	The label for the measure.	Small, 36.0	36.0
origin	String	The origin of the measure.	Small, 36.0	36.0
showInExplorer	Boolean	Indicates whether the measure is displayed in the explorer.	Small, 36.0	36.0

### XMD Measure Format

Property Name	Type	Description	Filter Group and Version	Available Version
customFormat	String	The original (XMD 1.1) format array as a single string.	Small, 36.0	36.0
decimalDigits	Integer	The number of digits displayed after the decimal place.	Small, 36.0	36.0
negativeParentheses	Boolean	Indicates whether to display negative numbers with parentheses, rather than a minus sign.	Small, 36.0	36.0
prefix	String	The prefix placed before the field value.	Small, 36.0	36.0
suffix	String	The suffix placed after the field value.	Small, 36.0	36.0
unit	String	The unit string for the measure. For example, 'cm'.	Small, 36.0	36.0
unitMultiplier	Double	The multiplier for the unit.	Small, 36.0	36.0

### XMD Organization

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The ID of the organization.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
instanceUrl	String	The instance URL for the organization.	Small, 36.0	36.0
label	String	The label for the organization.	Small, 36.0	36.0

## Lenses List Resource

---

Returns a list of Wave Analytics lenses (GET), or creates a lens (POST).

### Resource URL

```
/wave/lenses
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET and POST

### GET Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
folderId	ID	Filters the results to include only the contents of a specific folder. Can be the requesting user's ID for items in the user's private folder.	Optional	36.0
page	String	A generated token that indicates the view of the lenses to be returned.	Optional	36.0
pageSize	Int	Number of items to be returned in a single page. Minimum is 1, maximum is 200, and default is 25.	Optional	36.0
q	String	Search terms. Individual terms are separated by spaces. Wild cards aren't supported.  For example, if you have lenses with the following names: <ul style="list-style-type: none"> <li>• Opportunities_Created_2010</li> <li>• Opportunities_Created_2011</li> </ul> Setting q = "Opportunities 2010" returns only Opportunities_Created_2010.	Optional	36.0

Parameter Name	Type	Description	Required or Optional	Available Version
sort	String	Sort order of the results. Values are: <ul style="list-style-type: none"> <li>LastModified</li> <li>Mru: Most recently used (last viewed date)</li> <li>Name</li> </ul> The default is Mru.	Optional	36.0

### GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
lenses	<a href="#">Lens[]</a>	List of lenses available to the current user.	Small, 36.0	36.0
nextPageUrl	String	The URL to retrieve the next page of contents in the collection.	Small, 36.0	36.0
totalSize	Integer	The total count of the elements in the collection, including all pages.	Medium, 36.0	36.0
url	String	The URL to retrieve the collection.	Small, 36.0	36.0

### Example Response Body

```
{
  "lenses" : [ "/* Lenses detail omitted for brevity. */" ],
  "nextPageUrl" : "/services/data/v36.0/wave/lenses?page=eyJwYWdlU216ZSI6MjUsInNv",
  "totalSize" : 14,
  "url" : "/services/data/v36.0/wave/lenses"
}
```

### Request Body (for POST and /wave/lenses/<lens ID> PATCH)

Property Name	Type	Description	Required or Optional	Available Version
dataset	<a href="#">AssetReference</a> <a href="#">InputRepresentation</a> on page 28	The dataset to be used to create this lens.	Required for POST, optional for PATCH	36.0
description	String	The description of the lens.	Required for POST, optional for PATCH	36.0
folder	<a href="#">AssetReference</a> <a href="#">InputRepresentation</a> on page 28	Folder in which this lens is stored.	Required for POST, optional for PATCH	36.0

Property Name	Type	Description	Required or Optional	Available Version
label	String	The label of the lens.	Required for POST, optional for PATCH	36.0
name	String	The name of the lens.	Required for POST, optional for PATCH	36.0
state	<a href="#">Lens State Input</a>	The state of the lens.	Required for POST, optional for PATCH	36.0
visualizationType	String	The visualization type to be used for this lens. Values are: <ul style="list-style-type: none"> <li>calendarheatmap: Calendar heat map</li> <li>comparisontable: Comparison table</li> <li>heatmap: Heat map</li> <li>hbar: Horizontal bar</li> <li>hbarhdot: Horizontal dot plot</li> <li>matrix: Matrix</li> <li>parallelcoords: Parallel coordinates</li> <li>pie: Donut</li> <li>pivottable: Pivot table</li> <li>scatter: Scatter plot</li> <li>stackhbar: Stacked horizontal bar</li> <li>stackvbar: Stacked vertical bar</li> <li>time: Time line</li> <li>valuestable: Values table</li> <li>vbar: Vertical bar</li> <li>vdot: Vertical dot plot</li> </ul>	Required for POST, optional for PATCH	36.0

#### AssetReferenceInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
id	String	ID of the asset		36.0
name	String	Developer name of the asset		36.0



**Lens State Input**

Property Name	Type	Description	Required or Optional	Available Version
columns	<a href="#">Column[]</a>	A list of the columns for a comparison table lens.	Must be specified for comparison tables only.	36.0
options	<a href="#">Lens Visualization Options Input</a>	The configuration options for different lens visualizations.	Optional	36.0
query	<a href="#">QueryInput Representation</a> on page 29	The SAQL query to be used to create this lens.	If using any visualization type other than comparison table, you are required to specify this property.	36.0

**QueryInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
query	String	The SAQL query.		36.0
version	Double	The version of the SAQL query.		36.0

**Lens Visualization Options Input**

Property Name	Type	Description	Required or Optional	Available Version
fit	Boolean	Indicates whether to scale the position and size of data shape so that it is proportional to the percentage of its category.	Optional	36.0
hideHeaderColumn	Boolean	Indicates whether to display a header column.	Optional	36.0
legend	Boolean	Indicates whether to show a legend.	Optional	36.0
legendHideHeader	Boolean	Indicates whether to hide the legend header.	Optional	36.0
legendWidth	Integer	The width of the legend	Optional	36.0
maxColumnWidth	Integer	The maximum width of the header column.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
<code>minColumnWidth</code>	Integer	The minimum width of the header column.	Optional	36.0
<code>miniBars</code>	Integer	The width of the mini-bars, if used.	Optional	36.0
<code>multiMetrics</code>	Boolean	When <code>true</code> , indicates that multiple measures are displayed on the same chart, side-by-side. When <code>false</code> , each measure is displayed on a separate chart. The default is <code>false</code> .	Optional	36.0
<code>normalize</code>	Boolean	Scale the position and size of the data shape so that it's proportional to the percentage of its category.	Optional	36.0
<code>splitAxis</code>	Boolean	When <code>true</code> , each measure is projected onto one axis. When <code>false</code> , all measures use the same axis.	Optional	36.0
<code>sqrt</code>	Boolean	Indicates that the horizontal and vertical axes use a square root scale.	Optional	36.0
<code>totals</code>	Boolean	Indicates whether to display totals in the table.	Optional	36.0
<code>trellis</code>	Boolean	When <code>true</code> , the last group is treated as a trellis dimension. Every distinct value of the dimension is a chart.	Optional	36.0

**POST Response Body**[Lens](#)

## Lens Resource

Returns a JSON file that describes the structure of a Wave Analytics lens with the specified ID (GET), deletes a lens (DELETE), or updates a lens (PATCH).

**Resource URL**

```
/wave/lenses/<lens ID>
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET, DELETE, and PATCH

**PATCH Request Body**

[Request Body \(for POST and /wave/lenses/<lens ID> PATCH\)](#)

When updating a lens, you can specify a single property by itself, or any combination of properties.



**Note:** The `state` and `visualizationType` properties must be patched together if the type is being changed to (or from) comparison table.

**GET and PATCH Response Body**

Property Name	Type	Description	Filter Group and Version	Available Version
<code>allowPreview</code>	Boolean	Indicates whether the user is allowed to preview the lens.	Small, 36.0	36.0
<code>assetSharingUrl</code>	String	The sharing URL for the lens.	Small, 36.0	36.0
<code>createdBy</code>	<a href="#">Wave User</a>	The creator of the lens.	Small, 36.0	36.0
<code>createdDate</code>	Date	The time at which the lens was created, in ISO8601 date format.	Small, 36.0	36.0
<code>dataset</code>	Dataset Reference	A reference to the dataset used to create this lens.	Small, 36.0	36.0
<code>files</code>	<a href="#">Lens File[]</a>	Information about the icon used to represent the lens in the user interface.	Medium, 36.0	36.0
<code>filesUrl</code>	String	Url to lens files.	Small, 36.0	36.0
<code>folder</code>	AssetReference Representation	A reference to the folder in which this lens is stored.	Small, 36.0	36.0
<code>id</code>	ID	The 18-character lens ID.	Small, 36.0	36.0
<code>label</code>	String	The label of the lens.	Small, 36.0	36.0
<code>lastAccessedDate</code>	Date	The last time the lens was accessed, in ISO8601 date format.	Small, 36.0	36.0
<code>lastModifiedBy</code>	<a href="#">Wave User</a>	The user who last updated the lens.	Small, 36.0	36.0
<code>lastModifiedDate</code>	Date	The last time the lens was modified, in ISO8601 date format.	Small, 36.0	36.0
<code>name</code>	String	The name of the lens.	Small, 36.0	36.0
<code>permissions</code>	<a href="#">Permissions</a>	The permissions for the current user.	Small, 36.0	36.0
<code>refreshDate</code>	Date	The date of the most recent current dataset that is used by the lens, in ISO8601 date format.	Small, 36.0	36.0
<code>state</code>	<a href="#">Lens State</a>	The state of the lens.	Big, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
type	String	The asset type. For lenses, the value is lens.	Small, 36.0	36.0
url	String	The URL to the resource for the lens.	Small, 36.0	36.0
visualizationType	String	<p>The visualization type used for this lens. Values are:</p> <ul style="list-style-type: none"> <li>calheatmap: Calendar heat map</li> <li>comparisontable: Comparison table</li> <li>heatmap: Heat map</li> <li>hbar: Horizontal bar</li> <li>hbarhdot: Horizontal dot plot</li> <li>matrix: Matrix</li> <li>parallelcoords: Parallel coordinates</li> <li>pie: Donut</li> <li>pivottable: Pivot table</li> <li>scatter: Scatter plot</li> <li>stackhbar: Stacked horizontal bar</li> <li>stackvbar: Stacked vertical bar</li> <li>time: Time line</li> <li>valuestable: Values table</li> <li>vbar: Vertical bar</li> <li>vdot: Vertical dot plot</li> </ul>	Small, 36.0	36.0

### Lens File

Property Name	Type	Description	Filter Group and Version	Available Version
contentType	String	The content type of the file.	Small, 36.0	36.0
fileLength	Integer	The length of the file in KB.	Small, 36.0	36.0
fileName	String	The name of the file.	Small, 36.0	36.0
id	ID	The 18-character lens file ID.	Small, 36.0	36.0
lastModifiedDate	Date	The last modified date of the file, in ISO8601 date format.	Small, 36.0	36.0

**Lens State**

Property Name	Type	Description	Filter Group and Version	Available Version
columns	<a href="#">Column[]</a>	A list of the columns for a comparison table lens. Only returned if the visualization type is a comparison table.	Small, 36.0	36.0
options	<a href="#">Lens Visualization Options</a>	The configuration options for different lens visualizations.	Small, 36.0	36.0
query	<a href="#">Query</a>	The SAQL query used to create this lens. Returned for all visualization types except for comparison tables.	Small, 36.0	36.0

**Column**

Property Name	Type	Description	Filter Group and Version	Available Version
header	String	The header text for this column.	Small, 36.0	36.0
hidden	Boolean	Indicates whether this column is hidden.	Small, 36.0	36.0
query	<a href="#">Query</a>	The SAQL query used to create this column.	Small, 36.0	36.0
showBars	Boolean	Indicates whether to show bars for this column.	Small, 36.0	36.0
sort	String	The sort order for this column. Values are: <ul style="list-style-type: none"> <li>Ascending: Sort in ascending order</li> <li>Descending: Sort in descending order</li> <li>InnerAscending: Sort within groups in ascending order</li> <li>InnerDescending: Sort within groups in descending order</li> <li>None: No sort order</li> </ul>	Small, 36.0	36.0

**Lens Visualization Options**

The valid configuration options for a visualization. The properties available depend on the type of visualization.

Visualization Type	Valid Properties
Bar	legend, legendHideHeader, legendWidth, maxColumnWidth, minColumnWidth,

Visualization Type	Valid Properties
	miniBars, multiMetrics, splitAxis, sqrt, and trellis
Comparison Table	maxColumnWidth, minColumnWidth, and totals
Donut	legend, legendHideHeader, and legendWidth
Dot Plot	fit, legend, legendHideHeader, legendWidth, and sqrt
Heat Map	legend, legendHideHeader, and legendWidth
Matrix	legend, legendHideHeader, and legendWidth
Parallel Coordinates	fit, legend, legendHideHeader, legendWidth, and sqrt
Pivot Table	maxColumnWidth, minColumnWidth, and totals
Scatter Plot	fit, legend, legendHideHeader, legendWidth, and sqrt
Stacked Bar	legend, legendHideHeader, legendWidth, maxColumnWidth, minColumnWidth, miniBars, normalize, and sqrt
Timeline	legend, legendHideHeader, legendWidth, and sqrt
Values Table	hideHeaderColumn, maxColumnWidth, minColumnWidth, and totals

### Visualization Properties

The properties available depend on the type of visualization.

Property Name	Type	Description	Filter Group and Version	Available Version
fit	Boolean	Indicates whether to scale the position and size of a data shape so that it's proportional to its percentage of its category.	Small, 36.0	36.0
hideHeaderColumn	Boolean	Indicates whether to display the header column.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
legend	Boolean	Indicates whether to display the legend.	Small, 36.0	36.0
legendHideHeader	Boolean	Indicates whether to hide the legend header.	Small, 36.0	36.0
legendWidth	Integer	The width of the legend	Small, 36.0	36.0
maxColumnWidth	Integer	The maximum width of the header column.	Small, 36.0	36.0
minColumnWidth	Integer	The minimum width of the header column.	Small, 36.0	36.0
miniBars	Integer	The width of the mini-bars, if used.	Small, 36.0	36.0
multiMetrics	Boolean	When true, indicates that multiple measures are displayed on the same chart, side-by-side. When false, each measure is displayed on a separate chart. The default value is false.	Small, 36.0	36.0
normalize	Boolean	Scale the position and size of the data shape so that it's proportional to its percentage of its category.	Small, 36.0	36.0
splitAxis	Boolean	When true, each measure is projected onto one axis. When false, all measures use the same axis.	Small, 36.0	36.0
sqrt	Boolean	Indicates that the horizontal vertical axes use a square root scale.	Small, 36.0	36.0
trellis	Boolean	When true, the last group is treated as a trellis dimension. Every distinct value of the dimension is a chart.	Small, 36.0	36.0
totals	Boolean	Indicates whether to display totals in the table.	Small, 36.0	36.0

## Query

Property Name	Type	Description	Filter Group and Version	Available Version
query	String	The SAQL query text.	Small, 36.0	36.0
saqlVersion	Double	The SAQL version of this query.	Small, 36.0	36.0

## Example Response Body

```

{
  "allowPreview" : true,
  "assetSharingUrl" : "https://yourInstance.salesforce.com/
    analytics/wave/lens?assetId=0FKD00000004CVjOAM&orgId=00DD00000007dBq&loginHost=
    yourInstance.salesforce.com&urlType=sharing",
  "createdBy" : {
    "id" : "005D000000018LSoIAM",
    "name" : "User Name",
    "profilePhotoUrl" : "https://yourInstance.salesforce.com/profilephoto/005/T"
  },
  "createdDate" : "2015-02-06T17:40:28.000Z",
  "dataset" : {
    "id" : "0FbD0000000000ExKAI",
    "url" : "/services/data/v36.0/wave/datasets/0FbD0000000000ExKAI"
  },
  "files" : [ {
    "contentType" : "image/png",
    "fileLength" : 3105,
    "fileName" : "assetPreviewThumb",
    "id" : "0FJD000000004CEiOAM",
    "lastModifiedDate" : "2015-02-06T17:40:29.000Z"
  } ],
  "folderId" : "001D00000000w3y6IAA",
  "id" : "0FKD000000004CVjOAM",
  "label" : "UsersWithRoles Lens",
  "lastAccessedDate" : "2015-04-02T23:02:12.000Z",
  "lastModifiedBy" : {
    "id" : "005D000000018LSoIAM",
    "name" : "User Name",
    "profilePhotoUrl" : "https://yourInstance.salesforce.com/profilephoto/005/T"
  },
  "lastModifiedDate" : "2015-02-06T17:40:28.000Z",
  "name" : "UsersWithRoles_Lens",
  "permissions" : {
    "modify" : true,
    "view" : true
  },
  "refreshDate" : "2015-02-20T17:42:50.000Z",
  "state" : {
    "options" : {
      "sqrt" : true
    },
    "query" : {
      "query" :
        "{&quot;values&quot;:[&quot;Name&quot;;&quot;CommunityNickname&quot;;&quot;Alias&quot;]}",
      "saqlVersion" : -1.0
    }
  },
  "type" : "lens",
  "url" : "/services/data/v36.0/wave/lenses/0FKD000000004CVjOAM",

```



```
"visualizationType" : "valuablestable"
}
```

## Lens File Resource

Returns a file that is part of a Wave Analytics lens.

### Resource URL

```
/wave/lenses/<lens ID>/files/<file ID>
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET, PUT

### GET Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
fileId	Id			36.0
lensId	Id			36.0

### GET Response Body

Returns the binary stream of the contents of the specified file.

### PUT Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
previewFile	Binary			36.0

### PUT Response Body

Updates the contents of the specified file.

### WaveFileMetadataRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
createdBy	<a href="#">WaveUser Representation</a>	created by user	Medium, 36.0	36.0
createdDate	Date	created date	Medium, 36.0	36.0
id	String	The 18 character lens file ID.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
lastAccessedDate	Date	last accessed date	Medium, 36.0	36.0
lastModifiedDate	Date	last modified date	Medium, 36.0	36.0
length	Integer	size of the lens file	Small, 36.0	36.0
name	String	name of lens file	Small, 36.0	36.0
url	String	url of file.	Small, 36.0	36.0

### WaveUserRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The 18 character user ID.	Small, 36.0	36.0
name	String	The name of the user.	Small, 36.0	36.0
profilePhotoUrl	String	The Chatter profile photo of the user.	Small, 36.0	36.0

## Lens File Metadata Resource

Resource for management of Wave lens file metadata.

### Resource URL

```
/wave/lenses/<lensId>/files
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET POST

### GET Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
page	String			36.0
pageSize	Int			36.0

**GET Response Body**

Get a collection of Wave lens file metadata.

**WaveFileMetadataCollectionRepresentation**

Property Name	Type	Description	Filter Group and Version	Available Version
files	<a href="#">WaveFileMetadataRepresentation[]</a>	List of file metadata.	Small, 36.0	36.0
nextPageUrl	String	URL to get the next page of contents in the collection.	Small, 36.0	36.0
totalSize	Integer	Gets the total count of the elements in the collection irrespective of the page.	Medium, 36.0	36.0
url	String	URL to get the collection.	Small, 36.0	36.0

**WaveFileMetadataRepresentation**

Property Name	Type	Description	Filter Group and Version	Available Version
createdBy	<a href="#">WaveUserRepresentation</a>	created by user	Medium, 36.0	36.0
createdDate	Date	created date	Medium, 36.0	36.0
id	String	The 18 character lens file ID.	Small, 36.0	36.0
lastAccessedDate	Date	last accessed date	Medium, 36.0	36.0
lastModifiedDate	Date	last modified date	Medium, 36.0	36.0
length	Integer	size of the lens file	Small, 36.0	36.0
name	String	name of lens file	Small, 36.0	36.0
url	String	url of file.	Small, 36.0	36.0

**WaveUserRepresentation**

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The 18 character user ID.	Small, 36.0	36.0
name	String	The name of the user.	Small, 36.0	36.0
profilePhotoUrl	String	The Chatter profile photo of the user.	Small, 36.0	36.0

**POST Request Parameters**

Parameter Name	Type	Description	Required or Optional	Available Version
previewFile	Binary			36.0

**POST Response Body**

Creates lens file.

**WaveFileMetadataRepresentation**

Property Name	Type	Description	Filter Group and Version	Available Version
createdBy	<a href="#">WaveUser Representation</a>	created by user	Medium, 36.0	36.0
createdDate	Date	created date	Medium, 36.0	36.0
id	String	The 18 character lens file ID.	Small, 36.0	36.0
lastAccessed Date	Date	last accessed date	Medium, 36.0	36.0
lastModified Date	Date	last modified date	Medium, 36.0	36.0
length	Integer	size of the lens file	Small, 36.0	36.0
name	String	name of lens file	Small, 36.0	36.0
url	String	url of file.	Small, 36.0	36.0

## Dashboards List Resource

---

Returns a list of Wave Analytics dashboards, or creates a dashboard.

**Resource URL**

```
/wave/dashboards
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET POST

**GET Request Parameters**

Parameter Name	Type	Description	Required or Optional	Available Version
folderId	ID	Filters the results to include only the contents of a specific folder. Can be the requesting user's ID for items in the user's private folder.		36.0
page	String	A generated token that indicates the view of dashboards to be returned.		36.0
pageSize	Int	Number of items to be returned in a single page. Minimum is 1, maximum is 200, and default is 25.		36.0
q	String	Search terms. Individual terms are separated by spaces. Wild cards aren't supported.		36.0
sort	Enum	Sort order of the results. Values are: <ul style="list-style-type: none"> <li>LastModified</li> <li>Mru: Most recently used (last viewed date)</li> <li>Name</li> </ul> The default value is <code>Mru</code> .	Optional	36.0

**GET Response Body**

Property Name	Type	Description	Filter Group and Version	Available Version
dashboards	<a href="#">Dashboard Representation</a> []	A collection of Wave Analytics dashboards.	Small, 36.0	36.0
nextPageUrl	String	The URL to retrieve the next page of contents in the collection.	Small, 36.0	36.0
totalSize	Integer	The total count of the elements in the collection, including all pages.	Medium, 36.0	36.0
url	String	The URL to retrieve the collection.	Small, 36.0	36.0

**POST Request Body**[DashboardInputRepresentation](#)**POST Response Body**[Dashboard Representation](#)

**Example Response Body**

```
{
  "dashboards": [ "//* Dashboard detail omitted for brevity. */"],
  "nextPageUrl": "/services/data/v36.0/wave/dashboards?page=eyJwYWdlU21SI6UsInNv",
  "totalSize": 33,
  "url": "/services/data/v36.0/wave/dashboards/0FKD00000004Cb8OAE"
}
```

## Dashboard Resource

---

Returns or updates the Wave Analytics dashboard with the specified ID.

**Resource URL**

```
/wave/dashboards/<dashboard ID>
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET DELETE PATCH

The POST method is supported through `/wave/dashboards`.

Refer to the [PATCH](#) and [POST input representations](#) below.

**GET and PATCH Response Body (DashboardRepresentation)**

Property Name	Type	Description	Filter Group and Version	Available Version
<code>allowPreview</code>	Boolean	Indicates whether this dashboard is available for preview.	Small, 36.0	36.0
<code>assetSharingUrl</code>	String	The sharing URL for the dashboard.	Small, 36.0	36.0
<code>createdBy</code>	<a href="#">Wave User</a>	The user who created the dashboard.	Small, 36.0	36.0
<code>createdDate</code>	Date	The time the dashboard was created.	Small, 36.0	36.0
<code>datasets</code>	<a href="#">AssetReferenceRepresentation</a> []	The list of datasets used to create this dashboard.	Small, 36.0	36.0
<code>description</code>	String	The description of the dashboard.	Small, 36.0	36.0
<code>files</code>	<a href="#">Lens File</a> []	The list of files used to create this dashboard.	Medium, 36.0	36.0
<code>filesUrl</code>	String	The URL for the files associated with the dashboard.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
folder	<a href="#">AssetReferenceRepresentation</a> []	The folder that contains this dashboard.	Small, 36.0	36.0
id	String	The 18-character dashboard ID.	Small, 36.0	36.0
label	String	The label of the dashboard.	Small, 36.0	36.0
lastAccessedDate	Date	The last time the dashboard was accessed, in ISO8601 date format.	Small, 36.0	36.0
lastModifiedBy	<a href="#">Wave User</a>	The user who last updated the dashboard.	Small, 36.0	36.0
lastModifiedDate	Date	The last time the dashboard was modified, in ISO8601 date format.	Small, 36.0	36.0
name	String	The name of the dashboard.	Small, 36.0	36.0
namespace	String	The namespace of the dashboard.	Small, 36.0	36.0
permissions	<a href="#">Permissions</a>	The permissions for the current user.	Small, 36.0	36.0
refreshDate	Date	The date of the most recent current dataset that is used by the dashboard, in ISO8601 date format.	Small, 36.0	36.0
state	<a href="#">Dashboard State</a>	The state of the dashboard	Big, 36.0	36.0
type	String	The asset type. For dashboards, the value is <code>dashboard</code> .	Small, 36.0	36.0
url	String	The URL to the resource for the dashboard.	Small, 36.0	36.0

### Dashboard State

Property Name	Type	Description	Filter Group and Version	Available Version
gridLayoutStyle	GridLayoutStyleRepresentation	Styling for the grid layout. Is paired with the <code>gridLayouts</code> property and is meant to replace the 'layouts' property.	Small, 36.0	36.0
gridLayouts	GridLayoutRepresentation	List of all grid layouts for this dashboard. This property replaces the 'layouts' property and the two are mutually exclusive.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
layouts	<a href="#">Layout</a> []	The list of layouts for this dashboard. This list is being replaced by gridLayouts.	Small, 36.0	36.0
steps	Map<String, <a href="#">Step</a> >	The list of steps used to create this dashboard. The key string is the step name.	Small, 36.0	36.0
widgets	Map<String, <a href="#">Dashboard Widget</a> >	The list of widgets used to create this dashboard. The key string is the widget name.	Small, 36.0	36.0

### Layout

Property Name	Type	Description	Filter Group and Version	Available Version
device	String	The device rendering this dashboard. Values are: <ul style="list-style-type: none"> <li>• <a href="#">Applewatch</a></li> <li>• <a href="#">Default</a></li> <li>• <a href="#">External</a></li> <li>• <a href="#">Ipad</a></li> <li>• <a href="#">Iphone</a></li> </ul>	Small, 36.0	36.0
orientation	String	The layout orientation of this dashboard. Values are: <ul style="list-style-type: none"> <li>• <a href="#">Landscape</a></li> <li>• <a href="#">Portrait</a></li> </ul>	Small, 36.0	36.0
pages	<a href="#">Layout Page</a> []	The list of layout pages available for the dashboard.	Small, 36.0	36.0
version	Double	The version of the layout for the dashboard.	Small, 36.0	36.0

### Layout Page

Property Name	Type	Description	Filter Group and Version	Available Version
rows	String[]	The rows associated with a layout page.	Small, 36.0	36.0



## Step

Representations of different types of steps. The properties available depend on the type of step.

Step Type	Valid Properties
Multi-query step	<code>query</code> , <code>columns</code> , <code>datasets</code> , <code>isFacet</code> , <code>isGlobal</code> , <code>selectMode</code> , <code>start</code> , <code>type</code> , <code>useGlobal</code> , and <code>visualizationParameters</code>
Query step	<code>query</code> , <code>datasets</code> , <code>isFacet</code> , <code>isGlobal</code> , <code>selectMode</code> , <code>start</code> , <code>type</code> , <code>useGlobal</code> , and <code>visualizationParameters</code>
Static step	<code>dimensions</code> , <code>values</code> , <code>datasets</code> , <code>isFacet</code> , <code>isGlobal</code> , <code>selectMode</code> , <code>start</code> , <code>type</code> , <code>useGlobal</code> , and <code>visualizationParameters</code>

## Step Properties

Property Name	Type	Description	Filter Group and Version	Available Version
<code>columns</code>	<a href="#">Column</a> []	The queries to run for this step.	Small, 36.0	36.0
<code>datasets</code>	<a href="#">AssetReferenceRepresentation</a> []	The list of datasets used by this step.	Small, 36.0	36.0
<code>dimensions</code>	String[]	The list of dimensions for a static step.	Small, 36.0	36.0
<code>isFacet</code>	Boolean	Indicates whether this step is faceted to any other step.	Small, 36.0	36.0
<code>isGlobal</code>	Boolean	Indicates whether this step is a global filter that can be faceted to other steps or widgets in the dashboard.	Small, 36.0	36.0
<code>query</code>	<a href="#">Query</a>	The query to run for this step.	Small, 36.0	36.0
<code>selectMode</code>	String	The select mode used to create the step (multi, multirequired, none, single, or singlerequired).	Small, 36.0	36.0
<code>start</code>	String	The start value for the step.	Small, 36.0	36.0
<code>type</code>	String	The type of the dashboard step. Values are: <ul style="list-style-type: none"> <li>Aggregate</li> <li>Grain</li> <li>Multi</li> <li>Static</li> </ul>	Small, 36.0	36.0
<code>useGlobal</code>	Boolean	Indicates whether the step is faceted to the global step.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
values	String[]	The list of values for a static step.	Small, 36.0	36.0
visualization Parameters	<a href="#">Step Visualization Parameters</a>	The parameters for the step visualization.	Small, 36.0	36.0

### Step Visualization Parameters

Property Name	Type	Description	Filter Group and Version	Available Version
options	<a href="#">Lens Visualization Options</a>	The configuration options for different step visualizations.	Small, 36.0	36.0
visualizationType	String	<p>The type of visualization. Values are:</p> <ul style="list-style-type: none"> <li>• <code>calheatmap</code>: Calendar heat map</li> <li>• <code>comparisontable</code>: Comparison table</li> <li>• <code>heatmap</code>: Heat map</li> <li>• <code>hbar</code>: Horizontal bar</li> <li>• <code>hbarhdot</code>: Horizontal dot plot</li> <li>• <code>matrix</code>: Matrix</li> <li>• <code>parallelcoords</code>: Parallel coordinates</li> <li>• <code>pie</code>: Donut</li> <li>• <code>pivottable</code>: Pivot table</li> <li>• <code>scatter</code>: Scatter plot</li> <li>• <code>stackhbar</code>: Stacked horizontal bar</li> <li>• <code>stackvbar</code>: Stacked vertical bar</li> <li>• <code>time</code>: Time line</li> <li>• <code>valuestable</code>: Values table</li> <li>• <code>vbar</code>: Vertical bar</li> <li>• <code>vdot</code>: Vertical dot plot</li> </ul>	Small, 36.0	36.0

**Dashboard Widget**

Property Name	Type	Description	Filter Group and Version	Available Version
parameters	<a href="#">Widget Parameters</a>	The valid widget parameters (based on the type of widget).	Small, 36.0	36.0
position	<a href="#">Widget Position</a>	The position information for the widget.	Small, 36.0	36.0
type	String	The type of the widget. Values are: <ul style="list-style-type: none"> <li>• Box</li> <li>• Chart</li> <li>• CompareTable</li> <li>• DateSelector</li> <li>• GlobalFilters</li> <li>• Link</li> <li>• ListSelector</li> <li>• Number</li> <li>• PillBox</li> <li>• RangeSelector</li> <li>• Text</li> <li>• Url</li> <li>• ValuesTable</li> </ul>	Small, 36.0	36.0

**Widget Parameters**

The valid parameters for a widget. The properties available depend on the type of widget.

Widget Type	Valid Properties
Box	backgroundColor, borderColor, imageUrl, selectModeOverride, and stretch
Chart	exploreLink, fit, hideHeaderColumn, legend, legendHideHeader, legendWidth, maxColumnWidth, minColumnWidth, miniBars, multiMetrics, normalize, selectModeOverride, splitAxis, sqrt, step, totals, trellis, and visualizationType
Compare Table	exploreLink, maxColumnWidth, minColumnWidth, selectModeOverride, step, and totals
Date Selector	expanded, instant, selectModeOverride, step, and title
Global Filters	step and selectModeOverride

Widget Type	Valid Properties
Link	<code>destination</code> , <code>destinationType</code> , <code>fontSize</code> , <code>includeState</code> , <code>selectModeOverride</code> , <code>text</code> , <code>textColor</code> , and <code>visualizationType</code>
List Selector	<code>compact</code> , <code>expanded</code> , <code>exploreLink</code> , <code>instant</code> , <code>measureField</code> , <code>selectModeOverride</code> , <code>step</code> , and <code>title</code>
Number	<code>compact</code> , <code>exploreLink</code> , <code>fontSize</code> , <code>measureField</code> , <code>selectModeOverride</code> , <code>step</code> , <code>textAlignment</code> , <code>textColor</code> , and <code>title</code>
Pill Box	<code>compact</code> , <code>exploreLink</code> , <code>measureField</code> , <code>selectModeOverride</code> , <code>step</code> , and <code>title</code>
Range Selector	<code>instant</code> , <code>selectModeOverride</code> , <code>step</code> , and <code>title</code>
Text	<code>fontSize</code> , <code>selectModeOverride</code> , <code>text</code> , <code>textAlignment</code> , and <code>textColor</code>
Url	<code>selectModeOverride</code> , <code>type</code> , <code>url</code> , and <code>videoSize</code>
Values Table	<code>exploreLink</code> , <code>hideHeaderColumn</code> , <code>maxColumnWidth</code> , <code>minColumnWidth</code> , <code>selectModeOverride</code> , <code>step</code> , and <code>totals</code>

### Widget Properties

The properties available depend on the type of widget.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>backgroundColor</code>	String	The background color of the widget.	Small, 36.0	36.0
<code>borderColor</code>	String	The border color of the widget.	Small, 36.0	36.0
<code>compact</code>	Boolean	Indicates whether the widget is compact.	Small, 36.0	36.0
<code>destination</code>	String	The destination of the link.	Small, 36.0	36.0
<code>destinationType</code>	String	The type of asset the link refers to. Values are: <ul style="list-style-type: none"> <li>• Dashboard</li> <li>• Explore</li> <li>• Lens</li> <li>• Url</li> </ul>	Small, 36.0	36.0
<code>expanded</code>	Boolean	Indicates whether the widget is expanded.	Small, 36.0	36.0
<code>exploreLink</code>	Boolean	Indicates whether <code>exploreLink</code> is on.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
fit	Boolean	If true, fits the domain of the axis according to the data domain; If false, zero is always included in the axis domain.	Small, 36.0	36.0
fontSize	Integer	The font size for the widget.	Small, 36.0	36.0
hideHeaderColumn	Boolean	Indicates whether to hide the legend.	Small, 36.0	36.0
imageUrl	String	A 15-character or 18-character Salesforce document ID.	Small, 36.0	36.0
includeState	Boolean	Indicates whether to include the state.	Small, 36.0	36.0
instant	Boolean	Indicates whether the list selector is instant.	Small, 36.0	36.0
legend	Boolean	Indicates whether to show the legend.	Small, 36.0	36.0
legendHideHeader	Boolean	Indicates whether to hide the legend header.	Small, 36.0	36.0
legendWidth	Integer	The width of the legend.	Small, 36.0	36.0
maxColumnWidth	Integer	The maximum width of the header column.	Small, 36.0	36.0
measureField	String	The measure field associated with this widget.	Small, 36.0	36.0
minColumnWidth	Integer	The minimum width of the header column.	Small, 36.0	36.0
miniBars	Integer	If true, the bar width is dynamic and the bar text and header label are not displayed.	Small, 36.0	36.0
multiMetrics	Boolean	If true, multiple measures are projected on the same chart, side-by-side. If false (small multiple), every measure is a separate chart. The default is false.	Small, 36.0	36.0
normalize	Boolean	Indicates whether to scale the position and size of the data shape so that it's proportional to its percentage of its category.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
<code>selectModeOverride</code>	String	The select mode used to create the step (multi, multirequired, none, single, singlerequired).	Small, 36.0	36.0
<code>splitAxis</code>	Boolean	If true, each measure is projected on one axis. If false, all measures share an axis.	Small, 36.0	36.0
<code>sqrt</code>	Boolean	Indicates whether the horizontal and vertical axes use a square root scale.	Small, 36.0	36.0
<code>step</code>	String	The step name tied to this widget.	Small, 36.0	36.0
<code>stretch</code>	Boolean	Indicates whether to stretch the widget.	Small, 36.0	36.0
<code>text</code>	String	The value of the text.	Small, 36.0	36.0
<code>textAlignment</code>	String	The alignment of the text. Values are: <ul style="list-style-type: none"> <li>• Center</li> <li>• Left</li> <li>• Right</li> </ul>	Small, 36.0	36.0
<code>textColor</code>	String	The text color for the widget.	Small, 36.0	36.0
<code>title</code>	String	The title of the widget.	Small, 36.0	36.0
<code>totals</code>	Boolean	Indicates whether to use totals.	Small, 36.0	36.0
<code>trellis</code>	Boolean	If true, the last group is treated as a trellis dimension. Every distinct value of the dimension is a chart.	Small, 36.0	36.0
<code>type</code>	String	The type of Wave URL for the widget. Values are: <ul style="list-style-type: none"> <li>• Youtube</li> </ul>	Small, 36.0	36.0
<code>url</code>	String	The Connect URI for the widget.	Small, 36.0	36.0
<code>videoSize</code>	String	Size of the video this URL points to.	Small, 36.0	36.0
<code>visualizationType</code>	String	The visualization type used for this widget. Values are: <ul style="list-style-type: none"> <li>• <code>calheatmap</code>: Calendar heat map</li> </ul>	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> <li>• <code>comparisontable</code>: Comparison table</li> <li>• <code>heatmap</code>: Heat map</li> <li>• <code>hbar</code>: Horizontal bar</li> <li>• <code>hbarhdot</code>: Horizontal dot plot</li> <li>• <code>matrix</code>: Matrix</li> <li>• <code>parallelcoords</code>: Parallel coordinates</li> <li>• <code>pie</code>: Donut</li> <li>• <code>pivottable</code>: Pivot table</li> <li>• <code>scatter</code>: Scatter plot</li> <li>• <code>stackhbar</code>: Stacked horizontal bar</li> <li>• <code>stackvbar</code>: Stacked vertical bar</li> <li>• <code>time</code>: Time line</li> <li>• <code>valuestable</code>: Values table</li> <li>• <code>vbar</code>: Vertical bar</li> <li>• <code>vdot</code>: Vertical dot plot</li> </ul>		

### Widget Position

Property Name	Type	Description	Filter Group and Version	Available Version
<code>h</code>	String	The height of the widget.	Small, 36.0	36.0
<code>w</code>	String	The width of the widget.	Small, 36.0	36.0
<code>x</code>	Integer	The x-index of the widget.	Small, 36.0	36.0
<code>y</code>	Integer	The y-index of the widget.	Small, 36.0	36.0
<code>zIndex</code>	Integer	The z-index of the widget.	Small, 36.0	36.0

**PATCH and POST Request Body (DashboardInputRepresentation). The POST method is supported through `/wave/dashboards`.**

#### DashboardInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
state	<a href="#">DashboardStateInputRepresentation</a>	The state of the dashboard.	Optional for PATCH, required for POST	36.0
folder	<a href="#">AssetReferenceInputRepresentation</a>	Folder in which this dashboard is stored.	Optional for PATCH, required for POST	36.0
description	String	Short description of the asset.	Optional	36.0
label	String	The label of the asset.	Optional for PATCH, required for POST	36.0
name	String	The name of the asset.	Optional	36.0

#### DashboardStateInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
gridLayoutStyle	<a href="#">GridLayoutStyleInputRepresentation</a>	Overall styling for the GridLayouts used as part of this dashboard.	Optional	36.0
gridLayouts	List ( <a href="#">GridLayoutInputRepresentation[]</a> )	List of GridLayoutInputRepresentation's used as part of this dashboard. If present, 'layouts' must not be set.	Optional	36.0
layouts	List ( <a href="#">LayoutInputRepresentation[]</a> )	List of LayoutInputRepresentation's used as part of this dashboard.	Optional	36.0
steps	Map (key of type String) ( <a href="#">MultiQueryStepInputRepresentation</a> , <a href="#">GrainQueryStepInputRepresentation</a> , <a href="#">AggregateQueryStepInputRepresentation</a> , or <a href="#">StaticStepInputRepresentation</a> )	Map of all the steps used to create this dashboard keyed with their names.	Optional	36.0
widgetStyle	<a href="#">GridLayoutWidgetStyleInputRepresentation</a> on page 60	Default styling for widgets in this dashboard.	Optional	37.0



Property Name	Type	Description	Required or Optional	Available Version
widgets	Map (key of type String) ( <a href="#">DashboardWidgetInputRepresentation</a> )	Map of all the DashboardWidgetInput Representation's used to create this dashboard keyed with their names.	Optional	36.0

### AssetReferenceInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
id	String	ID of the asset.	Optional *	36.0
name	String	Developer name of the asset.	Optional *	36.0
namespace	String	The namespace that qualifies the asset name. The default is the current organization's namespace. This is "empty namespace" for all organizations except those developer edition orgs that have set a namespace. So only set namespace when referencing a dataset that is from an installed managed package.	Context dependant	37.0

\* When used in dashboard steps datasets, you must give a name. If the asset has a namespace, you must also give that. You should not give an id in this case, it will be ignored. In all other cases, you must give an id and neither a name or a namespace.

### GridLayoutStyleInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
widgetStyle	<a href="#">GridLayoutWidgetStyleInputRepresentation</a>	Default styling for widgets across all layouts.	Optional	36.0

### MultiQueryStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
columns	<a href="#">ColumnInputRepresentation</a> []	The list of columns of the comparison table.	Optional	36.0
globalQuery	<a href="#">QueryInputRepresentation</a>	Query override for all columns.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
datasets	<a href="#">AssetReferenceInputRepresentation</a> []	The List of all the dataset alias used in this step.	Optional	36.0
isFacet	Boolean	Determines if this step is tied/faceted to any other step	Optional	36.0
isGlobal	Boolean	If true, this step is a global filter which can be faceted to other steps/widgets in dashboard.	Optional	36.0
selectMode	ConnectWaveSelectModeEnum	The selectmode used (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0
start	String	Start value for the step.	Optional	36.0
type	ConnectWaveDashboardStepTypeEnum	The type of the dashboard step (Aggregate, Grain, Multi, or Static).	Optional for PATCH, required for POST	36.0
useGlobal	Boolean	If true, step gets tied to the global step.	Optional	36.0
visualizationParameters	<a href="#">StepVisualizationParametersInputRepresentation</a>	The Visualization Parameters for the dashboard step.	Optional	36.0

### GrainQueryStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
query	<a href="#">QueryInputRepresentation</a>	SAQL Query to run for this step.	Optional for PATCH, required for POST	36.0
datasets	<a href="#">AssetReferenceInputRepresentation</a> []	A list of all the datasets used in this step.	Optional	36.0
isFacet	Boolean	Determines if this step is tied/faceted to any other step	Optional	36.0
isGlobal	Boolean	If true, this step is a global filter which can be faceted to other steps/widgets in dashboard.	Optional	36.0
selectMode	ConnectWaveSelectModeEnum	The selectmode used (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
start	String	Start value for the step.	Optional	36.0
type	ConnectWaveDashboardStepTypeEnum	The type of the dashboard step (Aggregate, Grain, Multi, or Static).	Optional for PATCH, required for POST	36.0
useGlobal	Boolean	If true, step gets tied to the global step	Optional	36.0
visualizationParameters	<a href="#">StepVisualizationParametersInputRepresentation</a>	The Visualization Parameters for the dashboard step.	Optional	36.0

### AggregateQueryStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
query	<a href="#">QueryInputRepresentation</a>	SAQL used to create this Step	Optional for PATCH, required for POST	36.0
datasets	<a href="#">AssetReferenceInputRepresentation</a> []	The List of all the dataset alias used in this step.	Optional	36.0
isFacet	Boolean	Determines if this step is tied/faceted to any other step	Optional	36.0
isGlobal	Boolean	If true, this step is a global filter which can be faceted to other steps/widgets in dashboard.	Optional	36.0
selectMode	ConnectWaveSelectModeEnum	The selectmode used (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0
start	String	Start value for the step.	Optional	36.0
type	ConnectWaveDashboardStepTypeEnum	The type of the dashboard step (Aggregate, Grain, Multi, or Static).	Optional for PATCH, required for POST	36.0
useGlobal	Boolean	If true, step gets tied to the global step	Optional	36.0
visualizationParameters	<a href="#">StepVisualizationParametersInputRepresentation</a>	The Visualization Parameters for the dashboard step.	Optional	36.0

**StaticStepInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
dimensions	String[]	List of dimensions of the static step.	Optional	36.0
values	String[]	List of values of this step.	Optional	36.0
datasets	<a href="#">AssetReferenceInputRepresentation</a> []	The List of all the dataset alias used in this step.	Optional	36.0
isFacet	Boolean	Determines if this step is tied/faceted to any other step	Optional	36.0
isGlobal	Boolean	If true, this step is a global filter which can be faceted to other steps/widgets in dashboard.	Optional	36.0
selectMode	ConnectWaveSelectModeEnum	The selectmode used (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0
start	String	Start value for the step.	Optional	36.0
type	ConnectWaveDashboardStepTypeEnum	The type of the dashboard step (Aggregate, Grain, Multi, or Static).	Optional for PATCH, required for POST	36.0
useGlobal	Boolean	If true, step gets tied to the global step	Optional	36.0
visualizationParameters	<a href="#">StepVisualizationParametersInputRepresentation</a>	The Visualization Parameters for the dashboard step.	Optional	36.0

**ColumnInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
format	ConnectWaveColumnFormatEnum	Format for this column (CurrencyCents, CurrencyDollars, or Percentage).	Optional	36.0
header	String	Header text of this column.	Optional	36.0
hidden	Boolean	Whether or not this column is hidden.	Optional	36.0
query	<a href="#">QueryInputRepresentation</a>	SAQL used to create this comparison table.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
showBars	Boolean	Whether or not to show bars for this column.	Optional	36.0
sort	ConnectWaveColumnSortEnum	Sort order for this column (Ascending, Descending, InnerAscending, InnerDescending, or None).	Optional	36.0

### QueryInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
query	String	The SAQL query.	Optional for PATCH, required for POST	36.0
version	Double	Version to which this query language construct belongs.	Optional for PATCH, required for POST	36.0

### StepVisualizationParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
options	<a href="#">LensVisualizationOptionsInputRepresentation</a>	The Visualization option associated with this step.	Optional	36.0
visualization Type	ConnectWaveVisualizationTypeEnum	The type of the visualization for the step (CalendarHeatMap, Combo, ComparisonTable, HeatMap, HorizontalBar, HorizontalDot, Matrix, ParallelCoordinates, Pie, PivotTable, Scatter, StackWaterfall, StackedHorizontalBar, StackedHorizontalBar, Time, ValuesTable, VerticalBar, VerticalDot, or Waterfall).	Optional	36.0

**LensVisualizationOptionsInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
fit	Boolean	Scale the position and size of data shape so that it's proportional to its percentage of its category.	Optional	36.0
hideHeaderColumn	Boolean	Value indicating whether to display header column or not.	Optional	36.0
legend	Boolean	Value indicates whether to show legend or not.	Optional	36.0
legendHideHeader	Boolean	Value indicating whether to hide legend.	Optional	36.0
legendWidth	Integer	The Width of the legend.	Optional	36.0
maxColumnWidth	Integer	The Maximum width of the header column.	Optional	36.0
minColumnWidth	Integer	The Minimum width of the header column.	Optional	36.0
miniBars	Integer	The width of the MiniBars, if used.	Optional	36.0
multiMetrics	Boolean	As opposed to small multiple(default), when true, multiple measures will be projected on the same chart, side-by-side. when small multiple, every measure will be its own chart.	Optional	36.0
normalize	Boolean	Scale the position and size of data shape so that it's proportional to its percentage of its category.	Optional	36.0
splitAxis	Boolean	When true, each measure is projected on one axis; otherwise, all measures share the same axis.	Optional	36.0
sqrt	Boolean	Value indicating horizontal/vertical axis to be sqrt scale.	Optional	36.0
totals	Boolean	Value indicating whether to display totals in the table or not.	Optional	36.0
trellis	Boolean	When true, the last group will be treated as a trellis dimension. Every distinct value of the dimension will be a chart.	Optional	36.0

**GridLayoutInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
name	String	Name of this layout.	Required	36.0
pages	<a href="#">GridLayoutPageInputRepresentation</a> []	List of pages of widgets within the layout.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
selectors	String[]	List of selectors this layout applies to.	Optional	36.0
style	<a href="#">GridLayoutStyleInputRepresentation</a> on page 53	Styling for the layout.	Optional	37.0
version	Double	Version of this layout.	Required	36.0
widgetStyle	<a href="#">GridLayoutWidgetStyleInputRepresentation</a>	Default styling for widgets within the layout.	Optional	36.0

### GridLayoutPageInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
widgets	<a href="#">GridLayoutWidgetInputRepresentation</a> []	List of widgets within the page.	Required	36.0

### GridLayoutWidgetInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
background Image	String	Background image for the widget.	Optional	36.0
colspan	Integer	Number of grid layout columns this widget spans.	Required	36.0
column	Integer	Column where this widget is located.	Required	36.0
name	String	Name of the widget.	Required	36.0
row	Integer	Row where this widget is located.	Required	36.0
rowspan	Integer	Number of grid layout rows this widget spans.	Required	36.0
widgetStyle	<a href="#">GridLayoutWidgetStyleInputRepresentation</a>	Style of the widget.	Required	36.0

**GridLayoutWidgetStyleInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
background Color	String	Background color for the widget. Is a 6 character hex string. For example: #012345.	Required	36.0
borderColor	String	Color of the widget's border. Is a 6 character hex string. For example: #012345.	Required	36.0
borderEdges	ConnectWaveBorderEdgeTypeEnum[]	List of edges of the border to be drawn (All, Bottom, Left, Right, or Top).	Required	36.0
borderRadius	Integer	Border radius of the widget.	Optional	36.0
borderWidth	Integer	Width of the widget's border.	Required	36.0
bottomPadding	Integer	Amount of padding on the bottom of the widget when rendered on mobile clients.	Optional	36.0
leftPadding	Integer	Amount of padding on the left of the widget when rendered on mobile clients.	Optional	36.0
rightPadding	Integer	Amount of padding on the right of the widget when rendered on mobile clients.	Optional	36.0
topPadding	Integer	Amount of padding on the top of the widget when rendered on mobile clients.	Optional	36.0

**LayoutInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
device	ConnectWaveLayoutDeviceTypeEnum	The device rendering this dashboard (Applewatch, Default, External, Ipad, Iphone).	Optional	36.0
orientation	ConnectWaveLayoutOrientationTypeEnum	The layout orientation of this dashboard (Landscape or Portrait).	Optional	36.0
pages	<a href="#">LayoutPageInputRepresentation</a> []	List of <a href="#">LayoutPageInputRepresentation</a> 's available for the dashboard.	Optional	36.0



Property Name	Type	Description	Required or Optional	Available Version
version	Double	The version of the layout representation for the dashboard.	Optional	36.0

### LayoutPageInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
rows	String[]	Get the Rows associated with a Layout Page.	Optional	36.0

### DashboardWidgetInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
parameters	Object <a href="#">BoxWidgetParametersInputRepresentation</a> , <a href="#">ChartWidgetParametersInputRepresentation</a> , <a href="#">CompareTableWidgetParametersInputRepresentation</a> , <a href="#">ContainerWidgetParametersInputRepresentation</a> , <a href="#">DateSelectorWidgetParametersInputRepresentation</a> , <a href="#">GlobalFiltersWidgetParametersInputRepresentation</a> , <a href="#">LinkWidgetParametersInputRepresentation</a> , <a href="#">ListSelectorWidgetParametersInputRepresentation</a> , <a href="#">NumberWidgetParametersInputRepresentation</a> , <a href="#">PillBoxWidgetParametersInputRepresentation</a> , <a href="#">RangeSelectorWidgetParametersInputRepresentation</a> , <a href="#">TextWidgetParametersInputRepresentation</a> , <a href="#">UrlWidgetParametersInputRepresentation</a> , or <a href="#">ValuesTableWidgetParametersInputRepresentation</a>	Valid widget parameters based on its type.	Optional for PATCH, required for POST	36.0
position	<a href="#">WidgetPositionInputRepresentation</a>	Position information of the widget on a dashboard.	Optional for PATCH, required for POST	36.0
type	<a href="#">ConnectWaveWidgetTypeEnum</a>	The type of the widget (Box, Chart, CompareTable, Container, DateSelector, GlobalFilters, Link, ListSelector, Number, PillBox, RangeSelector, Text, Url, or ValuesTable).	Optional for PATCH, required for POST	36.0

**BoxWidgetParametersInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
backgroundColor	String	The background color to be used for the box widget.	Optional	36.0
borderColor	String	The border color to be used for the box widget.	Optional	36.0
imageUrl	String	The URI of the image to be used for the box widget.	Optional	36.0
stretch	Boolean	Value indicating whether to stretch the box widget or not.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

**ChartWidgetParametersInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
computeTotal	Boolean	If true, then last column is a computed value, which is sum of all the previous values	Optional	36.0
dualAxis	Boolean	If true, then show dual Axis	Optional	36.0
exploreLink	Boolean	Value indicating whether exploreLink is on or not.	Optional	36.0
fit	Boolean	If true, fits domain of axis according to data domain; if not fit, zero is always included in the axis domain.	Optional	36.0
hideHeaderColumn	Boolean	Value indicating whether to hide legend.	Optional	36.0
legend	Boolean	Value indicates whether to show legend or not.	Optional	36.0
legendHideHeader	Boolean	Value indicating whether to hide legend header.	Optional	36.0
legendWidth	Integer	The width of the legend.	Optional	36.0
maxColumnWidth	Integer	The maximum width of the header column.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
minColumnWidth	Integer	The minimum width of the header column.	Optional	36.0
miniBars	Integer	If true, bar width is dynamic and barText and header label will not be displayed.	Optional	36.0
multiMetrics	Boolean	As opposed to small multiple (default), when true, multiple measures will be projected on the same chart, side-by-side. When small multiple, every measure will be its own chart.	Optional	36.0
negativeColor	String	Color of negative valued columns	Optional	36.0
normalize	Boolean	Scales the position and size of data shape so that it's proportional to its percentage of its category.	Optional	36.0
positiveColor	String	Color of positive valued columns	Optional	36.0
showValues	Boolean	If true, then columns will show the data value	Optional	36.0
splitAxis	Boolean	When true, each measure is projected on one axis; otherwise, all measures share the same axis.	Optional	36.0
sqrt	Boolean	Value indicating horizontal or vertical axis to be sqrt scale.	Optional	36.0
startColor	String	Color of the first column	Optional	36.0
step	String	The step name tied to this widget.	Optional	36.0
totalColor	String	Color of total column	Optional	36.0
totals	Boolean	Value indicating whether to use totals.	Optional	36.0
trellis	Boolean	When true, the last group will be treated as a trellis dimension. Every distinct value of the dimension will be a chart.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
visualizationType	ConnectWaveVisualizationTypeEnum	Chart type of this widget (CalendarHeatMap, Combo, ComparisonTable, HeatMap, HorizontalBar, HorizontalDot, Matrix, ParallelCoordinates, Pie, PivotTable, Scatter, StackWaterfall, StackedHorizontalBar, StackedVerticalBar, Time, ValuesTable, VerticalBar, VerticalDot, or Waterfall)	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

#### CompareTableWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
exploreLink	Boolean	Value indicating whether to display exploreLink or not.	Optional	36.0
maxColumnWidth	Integer	Maximum width of the header column.	Optional	36.0
minColumnWidth	Integer	Minimum width of the header column.	Optional	36.0
step	String	Step name tied to this widget.	Optional	36.0
totals	Boolean	Value indicating whether the totals column is displayed or not.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

#### ContainerWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
containedWidgets	String[]	List of widgets (by name) contained within this widget.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
imageUrl	String	The URI of the image to be used for the container widget.	Optional	36.0
stretchImage	Boolean	Value indicating whether to stretch the container widget background image.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

#### DateSelectorWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
expanded	Boolean	Value indicating whether the date selector is expanded or not.	Optional	36.0
instant	Boolean	Value indicating whether the list selector is instant or not.	Optional	36.0
step	String	The step name tied to this widget.	Optional	36.0
title	String	The title of the list selector widget.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

#### GlobalFiltersWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
step	String	Step name tied to this widget.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

**LinkWidgetParametersInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
destination	String	The destination of this link.	Optional	36.0
destinationType	ConnectWaveLinkWidgetDestType Enum	Type of the asset this link refers to (Dashboard, Explore, Lens, or Url).	Required	36.0
fontSize	Integer	The font size to be used for this link widget.	Optional	36.0
includeState	Boolean	Whether or not include state.	Optional	36.0
text	String	Value of the text.	Optional	36.0
textColor	String	The color to be used for the text of this link widget.	Optional	36.0
visualizationType	ConnectWaveVisualizationType Enum	Chart type this link refers to (CalendarHeatMap, Combo, ComparisonTable, HeatMap, HorizontalBar, HorizontalDot, Matrix, ParallelCoordinates, Pie, PivotTable, Scatter, StackWaterfall, StackedHorizontalBar, StackedVerticalBar, Time, ValuesTable, VerticalBar, VerticalDot, or Waterfall)	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

**ListSelectorWidgetParametersInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
compact	Boolean	Value indicating whether the list selector is compact or not.	Optional	36.0
expanded	Boolean	Value indicating whether the list selector is expanded or not.	Optional	36.0
exploreLink	Boolean	Value indicating whether the list selector has 'explore' link or not.	Optional	36.0
instant	Boolean	Value indicating whether the list selector is instant or not.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
measureField	String	The measure field this widget is applied on.	Optional	36.0
step	String	The step name tied to this widget.	Optional	36.0
title	String	The title of the list selector widget.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

### NumberWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
compact	Boolean	Whether or not widget is compact.	Optional	36.0
exploreLink	Boolean	Whether or not widget has 'explore' link.	Optional	36.0
fontSize	Integer	Font size of the text.	Optional	36.0
measureField	String	The measure field this number is calculated upon.	Optional	36.0
step	String	The step name tied to this widget.	Optional	36.0
textAlignment	ConnectWaveHorizontalAlignmentEnum	Alignment of the text (Center, Left, or Right).	Optional	36.0
textColor	String	Color of the text inside this widget.	Optional	36.0
title	String	The title of the widget.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

**PillBoxWidgetParametersInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
compact	Boolean	Value indicating whether the list selector is compact or not.	Optional	36.0
exploreLink	Boolean	The explore link used to create this widget.	Optional	36.0
measureField	String	Measure field this widget is constructed upon.	Optional	36.0
step	String	The step name tied to this widget.	Optional	36.0
title	String	The title of this widget.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

**RangeSelectorWidgetParametersInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
instant	Boolean	Value indicating whether the list selector is instant or not.	Optional	36.0
step	String	The step name tied to this widget.	Optional	36.0
title	String	The title of the list selector widget.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

**TextWidgetParametersInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
fontSize	Integer	The font size of the text.	Optional	36.0
text	String	Value of the text inside this widget.	Optional	36.0
textAlignment	ConnectWaveHorizontalAlignmentEnum	Alignment of the text (Left, Center, or Right).	Optional	36.0



Property Name	Type	Description	Required or Optional	Available Version
textColor	String	The color of the text.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

#### UrlWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
type	ConnectWaveUrlWidgetType	Url widget type enum (YouTube).	Optional	36.0
url	String	Connect URI for the widget.	Optional	36.0
videoSize	String	Size of the video at which this url points.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

#### ValuesTableWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
exploreLink	Boolean	Value indicating whether the explore link is shown or not.	Optional	36.0
hideHeaderColumn	Boolean	Boolean value indicating whether to hide or show the header column for this widget.	Optional	36.0
maxColumnWidth	Integer	Maximum width of the header column.	Optional	36.0
minColumnWidth	Integer	Minimum width of the header column.	Optional	36.0
step	String	The step name tied to this widget.	Optional	36.0
totals	Boolean	Value indicating whether the totals column is displayed or not.	Optional	36.0
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

**WidgetPositionInputRepresentation**

Property Name	Type	Description	Required or Optional	Available Version
h	String	Height of the widget.	Optional	36.0
w	String	Width of the widget.	Optional	36.0
x	Integer	X index of widget.	Optional for PATCH, required for POST	36.0
y	Integer	Y index of widget.	Optional for PATCH, required for POST	36.0
zIndex	Integer	Z index of widget.	Optional	36.0

## Dependencies Resource

---

Returns the dependencies for an application (folder).

The Dependencies resource allows you to view all assets and dataflows that depend on an application (folder). An asset is a dataset, lens, dashboard, or application. The Dependencies resource returns only assets on which you have view access. This resource returns a representation of all assets and dataflows that are built using any of the datasets the application contains.

**Resource URL**

```
/wave/dependencies/<folder ID>
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET

**GET Response Body (and DependencyRepresentation)**

Property Name	Type	Description	Filter Group and Version	Available Version
assetSharingUrl	String	The sharing URL for the asset.	Small, 36.0	36.0
dashboards	<a href="#">Dependency Collection Representation</a>	The dashboards that depend on the asset.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
datasets	<a href="#">Dependency Collection Representation</a>	The datasets that depend on the asset.	Small, 36.0	36.0
folder	<a href="#">AssetReference Representation</a>	The folder containing the asset.	Small, 36.0	36.0
id	String	The 18-character asset ID.	Small, 36.0	36.0
lastModifiedBy	<a href="#">Wave User</a>	The user who last modified the asset.	Small, 36.0	36.0
lastModifiedDate	Date	The last time the asset was modified, in ISO8601 date format.	Small, 36.0	36.0
lenses	<a href="#">Dependency Collection Representation</a>	The lenses that depend on the asset.	Small, 36.0	36.0
name	String	The name of the asset.	Small, 36.0	36.0
type	String	The asset type. Possible values are: <ul style="list-style-type: none"> <li>• dashboard</li> <li>• dataset</li> <li>• folder</li> <li>• lens</li> <li>• workflow</li> </ul>	Small, 36.0	36.0
url	String	The URL to retrieve the definition of the asset.	Small, 36.0	36.0
workflows	<a href="#">Dependency Collection Representation</a>	The dataflows that depend on the asset.	Small, 36.0	36.0

### DependencyCollectionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
dependencies	<a href="#">Dependency[]</a>	The list of dependencies for an asset.	Small, 36.0	36.0
totalSize	Integer	The total count of the dependencies.	Small, 36.0	36.0

**AssetReferenceRepresentation**

Property Name	Type	Description	Filter Group and Version	Available Version
alias	String	The asset alias.	Small, 36.0	36.0
id	String	The 18-character ID of the asset.	Small, 36.0	36.0
label	String	The asset label.	Small, 36.0	36.0
url	String	The asset URL.	Small, 36.0	36.0

**Example Response Body**

```
{
  "assetSharingUrl" :
  "https://yourInstance.salesforce.com/analytics/wave/application?assetId=00140&orgId=0040&loginHost=yourInstance.salesforce.com&urlType=sharing",

  "id" : "001400000000M5EiAAK",
  "lastModifiedBy" : { },
  "lenses" : {
    "dependencies" : [ {
      "assetSharingUrl" :
      "https://yourInstance.salesforce.com/analytics/wave/lens?assetId=0FK40&loginHost=yourInstance.salesforce.com&urlType=sharing",

      "datasets" : {
        "dependencies" : [ {
          "id" : "0Fb400000004DKRCA2",
          "lastModifiedBy" : { },
          "name" : "sales",
          "type" : "dataset",
          "url" : "/services/data/v36.0/wave/datasets/0Fb400000004DKRCA2"
        } ],
        "totalSize" : 1
      },
      "folder" : {
        "alias" : "Test",
        "id" : "001400000000M5EnAAK",
        "label" : "Test",
        "url" :
        "https://yourInstance.salesforce.com/analytics/wave/application?assetId=00140&loginHost=yourInstance.salesforce.com&urlType=sharing"
      },
      "id" : "0FK400000004D8CGAU",
      "lastModifiedBy" : {
        "id" : "005400000000Hf6rAAC",
        "name" : "Admin User",
        "profilePhotoUrl" :
        "https://yourInstance.salesforce.com/profilephoto/72940000000003y/T"
      },
      "lastModifiedDate" : "2015-06-16T22:36:21.000Z",
      "name" : "New lens",
      "type" : "lens",

```

```

    "url" : "/services/data/v36.0/wave/lenses/0FK400000004D8CGAU"
  } ],
  "totalSize" : 1
},
"type" : "folder"
}

```

## Features Configuration Resource

---

The Wave features that are available to a user.

### Resource URL

```
/wave/config/features
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET

### GET Response Body

Get the features available to a user.

### WaveFeaturesRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
canCreateAndEditDashboards	Boolean	Can the user create and edit Dashboards.	Small, 36.0	36.0
canCreateApplications	Boolean	Can the user create applications.	Small, 36.0	36.0
canEditReplication	Boolean	Can the user edit Replication setup.	Small, 37.0	37.0
canUploadExternalData	Boolean	Can the user upload external data.	Small, 36.0	36.0
canUseWave	Boolean	Can the user access Wave.	Small, 36.0	36.0
isWaveCommunitiesUser	Boolean	Is the user a Wave Communities user.	Small, 36.0	36.0

## Folders List Resource

---

Creates a Wave Analytics application (POST), which is a folder that contains Wave datasets, lenses, and dashboards, or returns a collection of applications or folders (GET).

### Resource URL

```
/wave/folders
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET and POST

### GET Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
page	String	A generated token that indicates the view of the folders to be returned.	Optional	36.0
pageSize	Int	Number of items to be returned in a single page. Minimum is 1, maximum is 200, and default is 25.	Optional	36.0
q	String	Search terms. Individual terms are separated by spaces. Wild cards aren't supported.	Optional	36.0
sort	String	Sort order of the results. Values are: <ul style="list-style-type: none"> <li>• LastModified</li> <li>• Mru: Most recently used (last viewed date)</li> <li>• Name</li> </ul> The default is Mru.	Optional	36.0

### GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
folders	<a href="#">Wave Folder[]</a>	A list of folders or applications.	Small, 36.0	36.0
nextPageUrl	String	The URL for the next page of content in the collection.	Small, 36.0	36.0
totalSize	Integer	The total count of the elements in the collection.	Medium, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
<code>url</code>	String	The URL for the collection.	Small, 36.0	36.0

**POST Request Body**

Property Name	Type	Description	Required or Optional	Available Version
<code>assetIcon</code>	String	The file name of the icon that represents the new folder or application. Valid values are <code>1.png</code> through <code>20.png</code> .	Optional	36.0
<code>description</code>	String	The description of the new folder or application.	Optional	36.0
<code>label</code>	String	The display name of the new folder or application.	Required	36.0
<code>name</code>	String	The API name of the new folder or application.	Required	36.0
<code>shares</code>	List	The rules for sharing the new folder or application.	Optional	36.0
<code>templateSourceId</code>	String	The source template ID or API name used to create the folder or application.	Optional	36.0
<code>templateValues</code>	Map	The runtime template values to use during creation of the folder or application, as specified by the individual application template.	Optional	36.0

**POST Response Body**

[Wave Folder](#)

## Folder Resource

---

Returns the representation for a Wave Analytics application or folder (GET), replaces an application or folder (PUT), updates it (PATCH), or deletes it (DELETE).

**Resource URL**

```
/wave/folders/<folder ID>
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET, PUT, PATCH, DELETE

**PUT and PATCH Request Body**

Property Name	Type	Description	Required or Optional	Available Version
assetIcon	String	The file name of the icon that represents the new folder or application. Valid values are 1.png through 20.png.	Optional	36.0
description	String	The description of the new folder or application.	Optional	36.0
label	String	The display name of the new folder or application.	PUT: Required PATCH: Optional	36.0
name	String	The API name of the new folder or application.	PUT: Required PATCH: Optional	36.0
shares	List	The rules for sharing the new folder or application.	Optional	36.0

**GET, PUT, and PATCH Response Body (and /wave/folders POST Response Body)**

Property Name	Type	Description	Filter Group and Version	Available Version
applicationStatus	String	The status of the application while it's being created. One of the following: <ul style="list-style-type: none"> <li>CancelledStatus</li> <li>CompletedStatus</li> <li>DataflowInProgressStatus</li> <li>FailedStatus</li> <li>InProgressStatus</li> <li>NewStatus</li> </ul>	Medium, 36.0	36.0
assetSharingUrl	String	The sharing URL for the asset.	Small, 36.0	36.0
createdBy	<a href="#">Wave User</a>	The user who created the asset.	Small, 36.0	36.0
createdDate	Date	The time the asset was created.	Small, 36.0	36.0
description	String	The description of the asset.	Small, 36.0	36.0



Property Name	Type	Description	Filter Group and Version	Available Version
icon	<a href="#">AssetReference Representation</a>	The icon for the asset.	Small, 36.0	36.0
id	String	The 18-character ID of the folder associated with the application.	Small, 36.0	36.0
label	String	The label of the asset.	Small, 36.0	36.0
lastAccessedDate	Date	The last time the asset was accessed.	Small, 36.0	36.0
lastModifiedBy	<a href="#">Wave User</a>	The user who last updated the asset.	Small, 36.0	36.0
lastModifiedDate	String	The last time the asset was modified.	Small, 36.0	36.0
name	String	The name of the asset.	Small, 36.0	36.0
namespace	String	The namespace of the asset.	Small, 36.0	36.0
permissions	<a href="#">Permissions</a>	The permissions for the current user.	Small, 36.0	36.0
shares	<a href="#">Wave Folder Share[]</a>	The folder shares list.	Big, 36.0	36.0
templateSourceId	String	The source template ID or api name used to create the folder or application.	Medium, 36.0	36.0
type	String	The asset type. For folders, the value is <code>folder</code> .	Small, 36.0	36.0
url	String	The URL to get the definition of the asset.	Small, 36.0	36.0

### Wave Folder Share

Property Name	Type	Description	Filter Group and Version	Available Version
accessType	String	The access type of the user. Values are: <ul style="list-style-type: none"> <li>• Edit</li> <li>• Manage</li> <li>• View</li> </ul>	Small, 36.0	36.0
imageUrl	String	The URL of the user image.	Small, 36.0	36.0
shareType	String	The share type of the user. Values are: <ul style="list-style-type: none"> <li>• AllCspUsers</li> <li>• AllPrmUsers</li> </ul>	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> <li>• CustomerPortalUser</li> <li>• Group</li> <li>• Organization</li> <li>• PartnerUser</li> <li>• PortalRole</li> <li>• PortalRoleAndSubordinates</li> <li>• Role</li> <li>• RoleAndSubordinates</li> <li>• User</li> </ul>		
sharedWithId	String	The ID of the user with the share representation.	Small, 36.0	36.0
sharedWithLabel	String	The label for the share user/group/org.	Small, 36.0	36.0

### Example Response Body

```
{
  "applicationStatus" : "newstatus",
  "assetIcon" : "6.png",
  "assetIconUrl" : "https://yourInstance.salesforce.com/icons/6.png",
  "assetSharingUrl" :
  "https://yourInstance.salesforce.com/application?assetId=xx&orgId=yy&loginHost=jsmith-ltm.yourInstance.salesforce.com&urlType=sharing",
  "createdBy" : {
    "id" : "005xx000001SxwEAAS",
    "name" : "Admin User",
    "profilePhotoUrl" : "/profilephoto/005/T"
  },
  "createdDate" : "2015-06-22T17:38:33.000Z",
  "description" : "descr",
  "icon" : {
    "alias" : "6.png",
    "id" : "02Ixx00000003qvEAA",
    "url" : "/app/icons/6.png"
  },
  "id" : "02Ixx00000003qvEAA",
  "label" : "A new App",
  "lastModifiedBy" : {
    "id" : "005xx000001SxwEAAS",
    "name" : "Admin User",
    "profilePhotoUrl" : "/profilephoto/005/T"
  },
  "lastModifiedDate" : "2015-06-22T17:38:33.000Z",
  "name" : "A_new_App1",
}
```

```

"permissions" : {
  "manage" : true,
  "modify" : true,
  "view" : true
},
"shares" : [ {
  "accessType" : "manage",
  "imageUrl" : "/profilephoto/00G/T",
  "shareType" : "organization",
  "sharedWithId" : "00Gxx000000nCDzEAM",
  "sharedWithLabel" : "All Internal Users"
}, {
  "accessType" : "manage",
  "imageUrl" : "/profilephoto/005/T",
  "shareType" : "user",
  "sharedWithId" : "005xx000001SxzaAAC",
  "sharedWithLabel" : "Integration User"
} ],
"type" : "folder",
"url" : "/services/data/v36.0/wave/folders/001xx000000fmEpAAI"
}

```

## Templates List Resource

---

Returns list of Wave Analytics templates.

### Resource URL

```
/wave/templates
```

### Formats

JSON

### Available Version

36.0

### HTTP Methods

GET

### GET Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
type	String	<ul style="list-style-type: none"> <li>App: An app template.</li> <li>Dashboard: A dashboard template.</li> <li>Lens: A lens template.</li> </ul>	Required	36.0

**GET Response Body**

Property Name	Type	Description	Filter Group and Version	Available Version
templates	Template Representation[]	The collection of templates available within this organization.	Small, 36.0	36.0

## Templates Resource

Returns the representation for a Wave Analytics template.

**Resource URL**

```
/wave/templates/<templateIdOrApiName>
```

**Formats**

JSON

**Available Version**

36.0

**HTTP Methods**

GET

**GET Response Body**

Property Name	Type	Description	Filter Group and Version	Available Version
assetIcon	String	The icon for the asset.	Small, 36.0	36.0
configurationUrl	String	The URL for the template configuration.	Small, 36.0	36.0
description	String	The description of the template.	Big, 36.0	36.0
developerName	String	The local API name of the template.	Medium, 36.0	36.0
id	String	The ID or fully qualified API name of the template.	Small, 36.0	36.0
name	String	The localized name of the template.	Small, 36.0	36.0
namespace	String	The namespace of the template provider.	Medium, 36.0	36.0
templateIcon	String	The icon for the template.	Small, 36.0	36.0
templateType	String	<ul style="list-style-type: none"> <li>App: An app template.</li> <li>Dashboard: A dashboard template.</li> <li>Lens: A lens template.</li> </ul>	Small, 36.0	36.0
url	String	The URL for template details.	Small, 36.0	36.0

# Templates Configuration Resource

Returns the configuration of a Wave Analytics template.

## Resource URL

```
/wave/templates/<templateIdOrApiName>/configuration
```

## Formats

JSON

## Available Version

36.0

## HTTP Methods

GET

## GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
ui	<a href="#">Wave UI Definition</a>	The user interface definition for the template.	Small, 36.0	36.0
variables	Map <String, <a href="#">Wave Variable Definition</a> >	The defined set of variables for the template.	Small, 36.0	36.0

## Wave UI Definition

Property Name	Type	Description	Filter Group and Version	Available Version
display Messages	<a href="#">DisplayMessageRepresentation</a> []	The display messages for this template configuration.	Small, 36.0	36.0
pages	<a href="#">Page</a> []	The page collection for this template configuration.	Small, 36.0	36.0

## DisplayMessageRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
location	String	The name of the page where the text is to be displayed.	Small, 36.0	36.0
text	String	Text content to display.	Small, 36.0	36.0

**Page**

Property Name	Type	Description	Filter Group and Version	Available Version
condition	String	The optional condition in which the page should be shown. Values should be client-side EL notation (e.g. <code>{{Variables.selectedOption}}</code> ).	Small, 36.0	36.0
helpUrl	String	An URL to this page's help webpage.	Small, 36.0	36.0
title	String	The title for the page.	Small, 36.0	36.0
variables	String[]	The collection of variables for the template configuration and their properties; defines the order to display variables on a page.	Small, 36.0	36.0

**Wave Variable Definition**

Property Name	Type	Description	Filter Group and Version	Available Version
defaultValue	Object	The default value of the variable.	Small, 36.0	36.0
description	String	The description of the variable.	Small, 36.0	36.0
excludeSelected	Boolean	<code>True</code> if the variable has <code>excludeSelected</code> in the template. Otherwise <code>False</code> .	Small, 36.0	36.0
excludes	String[]	Values to exclude from the variable selection list.	Small, 36.0	36.0
label	String	The label for the variable.	Small, 36.0	36.0
mostRecentValue	Object	The value specified in the most recent app creation process.	Small, 36.0	36.0
required	Boolean	<code>True</code> if this variable is required by the template. Otherwise <code>False</code>	Small, 36.0	36.0
variableType	String	The type of the variable: <ul style="list-style-type: none"> <li><a href="#">DatasetType</a>: Restricts user input to objects in your organization that are of type "dataset".</li> <li><a href="#">DatasetDateType</a>: Restricts user input to attributes of type "date" within a dataset, which can be used for groupings when referenced by dashboard templates.</li> </ul>	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> <li><a href="#">DatasetDimensionType</a>: Restricts user input to attributes of type "dimension" within a dataset, which can be used for groupings when referenced by dashboard templates.</li> <li><a href="#">DatasetMeasureType</a>: Restricts user input to attributes of type "measure" within a dataset, which can be used for measure calculations when referenced by dashboard templates.</li> <li><a href="#">NumberType</a>: Restricts user input to values of numeric type.</li> <li><a href="#">SubjectType</a>: Restricts user input to standard or custom sObjects within your organization.</li> <li><a href="#">SubjectFieldType</a>: Restricts user input to fields within a sObject of similar types.</li> <li><a href="#">StringType</a>: Restricts user input to values of string type.</li> </ul>		

### Dataset Type

Property Name	Type	Description	Filter Group and Version	Available Version
type	Object	Dataset.	Small, 36.0	36.0
datasetID	String	Id for the dataset.	Small, 36.0	36.0
datasetAlias	String	Alias for the dataset.	Small, 36.0	36.0

### Dataset Date Type

Property Name	Type	Description	Filter Group and Version	Available Version
type	Object	A dataset date object.	Small, 36.0	36.0
datasetID	String	Id for the dataset.	Small, 36.0	36.0
dateAlias	String	Alias for the dataset date object.	Small, 36.0	36.0

**Dataset Dimension Type**

Property Name	Type	Description	Filter Group and Version	Available Version
type	Object	A dataset dimension object.	Small, 36.0	36.0
datasetID	String	Id for the dataset.	Small, 36.0	36.0
fieldName	String	The name of a dimension field from the dataset.	Small, 36.0	36.0

**Dataset Measure Type**

Property Name	Type	Description	Filter Group and Version	Available Version
type	Object	A dataset measure object.	Small, 36.0	36.0
datasetID	String	Id for the dataset.	Small, 36.0	36.0
fieldName	String	The name of a measure field from the dataset.	Small, 36.0	36.0

**Number Type**

Property Name	Type	Description	Filter Group and Version	Available Version
type	Type	Number. Can optionally be limited by a range of values.	Small, 36.0	36.0
enums	List	The restricted list of enumerated values, where applicable for numeric variable types.	Small, 36.0	36.0
max	Double	The maximum allowed value of the number. (Optional.)	Small, 36.0	36.0
min	Double	The minimum allowed value of the number. (Optional.)	Small, 36.0	36.0

**sObject Type**

Property Name	Type	Description	Filter Group and Version	Available Version
type	Object	sObject.	Small, 36.0	36.0
sObjectName	String	Name of the sObject.	Small, 36.0	36.0



**sObject Field Type**

Property Name	Type	Description	Filter Group and Version	Available Version
type	Object	sObject field.	Small, 36.0	36.0
sobjectName	String	Name of the sObject.	Small, 36.0	36.0
fieldName	String	Name of the sObject field.	Small, 36.0	36.0

**String Type**

Property Name	Type	Description	Filter Group and Version	Available Version
type	Type	String.	Small, 36.0	36.0
enums	List.	The restricted list of enumerated values, where applicable for string variable types.	Small, 36.0	36.0

**Example Response Body**

```
{
  "ui": {
    "pages": [
      {
        "title": "Application Preferences",
        "variables": [
          "lensDashboardName",
          "dashboardHeader"
        ]
      },
      {
        "title": "Other preferences",
        "variables": [
          "emailNotifications",
          "emailAddress"
        ]
      }
    ]
  },
  "variables": {
    "numberPicked": {
      "defaultValue": 3,
      "description": "A number between 1 and 10.",
      "excludeSelected": false,
      "excludes": [],
      "label": "Please pick a number between 1 and 10?",
      "required": true,
      "variableType": {
```

```

        "enums": [],
        "max": 10,
        "min": 1,
        "type": "NumberType"
    }
},
"lensDashboardName": {
    "defaultValue": "My View of Election Data",
    "description": "The name of the sample lens.",
    "excludeSelected": false,
    "excludes": [],
    "label": "What would you like to name your lens and dashboard?",
    "required": true,
    "variableType": {
        "enums": [],
        "type": "StringType"
    }
},
"dashboardHeader": {
    "defaultValue": "Wow! Interactive Dashboards are Nice!",
    "description": "The dashboard header.",
    "excludeSelected": false,
    "excludes": [],
    "label": "What would you like the dashboard header to say?",
    "required": true,
    "variableType": {
        "enums": [],
        "type": "StringType"
    }
},
"emailNotifications": {
    "defaultValue": "Yes",
    "description": "Email notifications",
    "excludeSelected": false,
    "excludes": [],
    "label": "Would you like to receive emails for promotions?",
    "required": false,
    "variableType": {
        "enums": [
            "Yes",
            "No"
        ],
        "type": "StringType"
    }
},
"emailAddress": {
    "defaultValue": null,
    "description": "Your email address.",
    "excludeSelected": false,
    "excludes": [],
    "label": "Please enter your email address?",
    "required": false,
    "variableType": {
        "enums": [],

```

```

    "type": "StringType"
  }
}
}
}

```

## Annotations List Resource

---

A collection of annotations.

### Resource URL

```
/wave/annotations
```

### Formats

JSON

### Available Version

37.0

### HTTP Methods

GET POST

### GET Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
assetId	Id	The ID of the asset.	Required	37.0

### GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
annotations	<a href="#">Annotation Representation</a> on page 88[]	The list of annotations for this asset and feedSubject.	Small, 37.0	37.0
feedSubject	<a href="#">AssetReference Representation</a> on page 12	The feed subject for all annotations.	Small, 37.0	37.0
url	String	URL to get this collection.	Small, 37.0	37.0

### POST Request Body

[AnnotationInputRepresentation](#) on page 88

### POST Response Body

[AnnotationRepresentation](#) on page 88

# Annotation Resource

---

An asset's annotations.

## Resource URL

```
/wave/annotations/<Annotation ID>
```

## Formats

JSON

## Available Version

37.0

## HTTP Methods

GET PATCH

## GET Response Body

AnnotationRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
anchor	String	The anchor key.	Small, 37.0	37.0
asset	<a href="#">AssetReference Representation</a> on page 12	The referenced asset.	Small, 37.0	37.0
feedElement	<a href="#">AssetReference Representation</a> on page 12	The referenced feed element.	Small, 37.0	37.0
id	String	The 18 character annotation ID.	Small, 37.0	37.0
resolved	Boolean	The resolved state of the annotation.	Small, 37.0	37.0
url	String	URL to get this annotation.	Small, 37.0	37.0

## PATCH Request Body

AnnotationInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
anchor	String	The anchor of the annotation.	Optional	37.0
asset	<a href="#">AssetReference InputRepresentation</a> on page 53	The referenced asset of the annotation.	Required	37.0
feedElement	<a href="#">AssetReference InputRepresentation</a> on page 53	The referenced feed element of the annotation.	Required	37.0

Property Name	Type	Description	Required or Optional	Available Version
resolved	Boolean	The resolved state of the annotation.	Optional	37.0

**PATCH Response Body**

[AnnotationRepresentation](#) on page 88

## Template Release Notes Resource

---

Resource for retrieving the release notes for a single Wave Analytics Template.

**Resource URL**

```
/wave/templates/<templateIdOrApiName>/releasenotes
```

**Formats**

JSON

**Available Version**

37.0

**HTTP Methods**

GET

**GET Response Body**

TemplateReleaseNotesRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
notes	String	The release note's markdown.	Small, 37.0	37.0