



Wave REST API Developer Guide

Salesforce, Spring '17



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WORKING WITH THE WAVE REST API


Wave REST API Overview

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.
- Work with and schedule Trend in Wave report snapshots.
- Manipulate replicated datasets.
- Get, add, update, and delete 'eclair' geo map charts.

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 be deprecated, as first noted in API version 36. Clients using this internal private API will not have access to any newly created or updated dashboard assets created using tools in the latest release. We encourage developers of such clients to port them to the Wave API GA.

Wave REST API Authentication

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.


- In your Salesforce organization, from Setup, click [Create | Apps](#), and in the Connected Apps section, click [New](#) to create a new connected app.
- Clients can use a connected app to sign in to any organization, even if the connected app isn't defined in that organization.
- Enter a connected app name.
- Select [Enable OAuth Settings](#).
- Enter a [Callback URL](#). It must be secure: use `https://` and *not* `http://`.
- 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.
- Click [Save](#).
- 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</code> Key
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:

- 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": "00DD0000000FJ6T!AQkAQPde_DMF2vGzddfZmBRS95GojDbtA
rKkgukAgZP0OVFFYY5KkAqhLw9ejeKIlpJ3FgwGAWeRlBiWRt8mfXEuAZGbZNosk"
}
```

- 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/v39.0/wave
-H 'Authorization: Bearer 00DD0000000FJ6T!AQkAQPde_DMF2vGzddfZmBRS95Goj
DbtArKkgukAgZP0OVFFYY5KkAqhLw9ejeKIlpJ3FgwGAWeRlBiWRt8mfXEuAZGbZNosk'
```

Property	Value in Example
Server instance	yourInstance.salesforce.com
client_id	3MVG9PhR6g6B7ps4xDycwGrI4PvjVZvK9
client_secret	8870355475032095511
grant_type	password The value of grant_type 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/v39.0`)
- A named resource (for example, `/wave`)

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

```
https://yourInstance.salesforce.com/services/data/v39.0/wave
```

Org and Object Identifiers

Id fields in Salesforce, and in the Wave UI, are typically 15-character, base-62, case-sensitive strings. This is true of JSON XMD too. However, many Salesforce APIs, including the Wave REST API, use 18-character, case-insensitive strings—for example, the `Id` property of the Dataset resource `/wave/datasets/<dataset ID>`. The last three digits are a checksum of the preceding 15 characters. The use of case-insensitive Id's eases interaction with external applications and development environments that use case-insensitive references. To convert an 18-character Id back to a 15-character ID, simply remove the last three characters.

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

Resource	Description	Supported HTTP Method	Resource URL
XMD List Resource	Returns a list of XMD resources for a version of a dataset.	GET	<code>/wave/datasets/<dataset ID>/versions/<version ID>/xmds</code>
XMD Resource	Returns the extended metadata (XMD) for a version of a dataset (GET) and replaces the user XMD file (PUT).	GET, PUT	<code>/wave/datasets/<dataset ID>/versions/<version ID>/xmds/<XMD type></code>
Lenses List Resource	Returns a list of Wave Analytics lenses (GET), or creates a lens (POST).	GET, POST	<code>/wave/lenses</code>
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).	GET, DELETE, POST	<code>/wave/lenses/<lens ID></code>
Lens File Resource	Returns a file that is part of a Wave Analytics lens.	GET, PUT	<code>/wave/lenses/<lenses ID>/files/<files ID></code>
Dashboards List Resource	Returns a list of Wave Analytics dashboards, or creates a dashboard.	GET, POST	<code>/wave/dashboards</code>
Dashboard Resource	Returns or updates the dashboard with the specified ID or API name.	GET, DELETE, PATCH	<code>/wave/dashboards/<dashboard ID></code>
Dependencies Resource	Returns the dependencies for an application (folder).	GET	<code>/wave/dependencies/<folder ID></code>
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).	GET, POST	<code>/wave/folders</code>
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).	GET, PUT, PATCH, DELETE	<code>/wave/folders/<folder ID></code>
Replicated Datasets Resource	Replicates data from an external Source Object into a Wave as a dataset. Replicated Datasets are not intended to be visualized directly, but are used like a cache to speed up other workflows which refer to the same source object.	GET, PATCH, DELETE	<code>/wave/replicatedDatasets/<ID></code>
Replicated Datasets List Resource	Returns a list of replicated datasets.	GET, POST	<code>wave/replicatedDatasets</code>
Replicated Dataset Fields Resource	A list of Replicated Fields for a particular Replicated Dataset.	GET, PATCH	<code>/wave/replicatedDatasets/<ID>/fields</code>

Resource	Description	Supported HTTP Method	Resource URL
Templates List Resource	Returns a list of Wave Analytics templates, or adds a template.	GET	/wave/templates
Templates Resource	Returns a list of Wave Analytics templates, or adds a template.	GET	/wave/templates/<templateIdOrApiName>
Templates Configuration Resource	Returns the configuration of a Wave Analytics template.	GET	/wave/templates/<templateIdOrApiName>/configuration
Trended Reports List Resource	Returns or adds to a collection of Trending Reports.	GET, POST	/wave/trendedreports
Trended Reports Resource	Returns, deletes, or updates a Trending Report.	DELETE, GET, PATCH	/wave/trendedreports/<Id>
Lens File Metadata Resource	Resource for management of Wave lens file metadata.	GET, POST	/wave/lenses/<lensId>/files
Features Configuration Resource	The Wave features that are available to a user.	GET	/wave/config/features
Annotations List Resource on page 138	A collection of annotations.	GET, POST	/wave/annotations
Annotations Resource on page 139	An asset's annotations.	GET, PATCH	/wave/annotations/<Annotation ID>
Template Release Notes Resource on page 129	Resource for retrieving the release notes for a single Wave Analytics Template.	GET	/wave/templates/<templateIdOrApiName>/releasenotes
Charts Maps List Resource on page 12	Get the collection of maps, or post a new map.	GET POST	/eclair/maps
Charts Maps Resource on page 16	Get, update, or delete a specific map.	DELETE GET PATCH	/eclair/maps/<id>
Charts Geodata Resource on page 11	Get, update, or delete a specific geodata definition.	DELETE GET PATCH	/eclair/geodata/<id>

Resource	Description	Supported HTTP Method	Resource URL
Charts Geodata List Resource on page 9	Get the collection of geodata definitions, or post a new one.	GET POST	/eclair/geodata
Charts Geodata File List Resource on page 12	Get the binary file associated with a geodata definition.	GET	/eclair/geodata/<id>/file

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/v39.0/wave/datasets",
```

```
{
  "lenses" : "/services/data/v39.0/wave/lenses",
  "query" : "/services/data/v39.0/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 \"0Fbxx0000000006CAA/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](#).

Charts Geodata List Resource

Get the collection of geodata definitions, or post a new one.

Resource URL

```
/eclair/geodata
```

Formats

JSON

Available Version

38.0

HTTP Methods

GET POST

GET Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
page	Int	The page number you want to view.		38.0
pageSize	Int	How many items you want to view on each page, up to 500.		38.0

GET Response Body

[GeoDataCollectionRepresentation](#)

POST Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
geoDataFile	Binary	The geojson file you want to upload.		39.0
geoDataObject	Object (GeoDataRepresentation)	List of all relevant information about the GeoData, i.e. { "label": "My GeoData" }.		39.0

POST Request Body[GeoDataInputRepresentation](#)**POST Response Body**[GeoDataRepresentation](#)**GeoDataCollectionRepresentation**

Property Name	Type	Description	Filter Group and Version	Available Version
geoData	GeoDataRepresentation []	A list of the geodata.	Small, 38.0	38.0

GeoDataRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The ID of this geo data record.	Small, 38.0	38.0
label	String	The user set name for the geo data.	Small, 38.0	38.0
name	String	The developer name for the geo data.	Small, 38.0	38.0
namespace	String	The namespace of the geo data.	Small, 39.0	39.0
type	ConnectEclairGeoDataTypeEnum	The type of geo data (currently just GeoJSON).	Small, 38.0	38.0
url	String	The url to retrieve the geodata.	Small, 38.0	38.0

GeoDataInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
label	String	Sets the GeoData label.		39.0
name	String	Sets the GeoData developer name.		39.0

Example curl request to create a geodata resource from a GeoJson file

```
curl -H "X-PrettyPrint: 1" \
  -F 'json={"label": "GeoJsonLabel","name": "<developer_name>"};type=application/json' \
  -F "geoDataFile=@YourGeonJsonFile.json" \
  -X POST \
  https://yourinstanceurl/services/data/v39.0/eclair/geodata \
  -H 'Authorization: OAuth OAuth Token'
```

Example Response Body

```
{
  "id" : "05oP0000000000LIAQ",
  "label" : "GeoJsonLabel",
  "name" : "<developer_name>",
  "type" : "geojson",
  "url" : "/services/data/v39.0/eclair/geodata/05oP0000000000LIAQ/file"
}
```

Charts Geodata Resource

Get, update, or delete a specific geodata definition.

Resource URL

```
/eclair/geodata/<id>
```

Formats

JSON

Available Version

38.0

HTTP Methods

DELETE GET PATCH

GET Response Body

GeoDataRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The ID of this geo data record.	Small, 38.0	38.0
label	String	The user set name for the geo data.	Small, 38.0	38.0
name	String	The developer name for the geo data.	Small, 38.0	38.0
namespace	String	The namespace of the geo data.	Small, 39.0	39.0
type	ConnectEclairGeoDataTypeEnum	The type of geo data (currently just GeoJSON).	Small, 38.0	38.0
url	String	The url to retrieve the geodata.	Small, 38.0	38.0

PATCH Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
geoDataFile	Binary	The geojson file you want to upload.		39.0
geoDataObject	Object (GeoDataRepresentation)	List of all relevant information about the GeoData, i.e. { "label": "My GeoData" }.		39.0

PATCH Request Body

GeoDataInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
label	String	Sets the GeoData label.		39.0
name	String	Sets the GeoData developer name.		39.0

PATCH Response Body

GeoDataRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The ID of this geo data record.	Small, 38.0	38.0
label	String	The user set name for the geo data.	Small, 38.0	38.0
name	String	The developer name for the geo data.	Small, 38.0	38.0
namespace	String	The namespace of the geo data.	Small, 39.0	39.0
type	ConnectEclairGeo DataTypeEnum	The type of geo data (currently just GeoJSON).	Small, 38.0	38.0
url	String	The url to retrieve the geodata.	Small, 38.0	38.0

Charts Geodata File List Resource

Get the binary file associated with a geodata definition.

Resource URL

```
/eclair/geodata/<id>/file
```

Formats

JSON

Available Version

38.0

HTTP Methods

GET

GET Response Body

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

Charts Maps List Resource

Get the collection of maps, or post a new map.

Resource URL`/eclair/maps`**Formats**

JSON

Available Version

38.0

HTTP Methods

GET POST

GET Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
page	Int	The page number you want to view.		38.0
pageSize	Int	How many items you want to view on each page, up to 500.		38.0

GET Response Body

MapCollectionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
maps	Map Representation	The list of the collection.	Small, 38.0	38.0

POST Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
geoMapObject	Object (MapInputRepresentation)	List of all relevant information about the map, i.e. { "label": "My Map" }.		39.0

POST Request Body

MapInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
boundingBox	MapBoundingBox InputRepresentation	Sets the Map bounding box.		39.0
geoData	AssetReference InputRepresentation	Sets the parent GeoData.		39.0

Property Name	Type	Description	Required or Optional	Available Version
label	String	Sets the Map label.		39.0
name	String	Sets the Map name		39.0
projection	ConnectEclairMap ProjectionType Enum	Sets the Map projection (AlbersUSA, Equirectangular, or Mercator)		39.0

POST Response Body

MapRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
boundingBox	BoundingBox Representation	The bounding box of the geo map	Small, 38.0	39.0
createdBy	UserRepresentation	The creator of the map	Small, 38.0	38.0
createdDate	Date	The date when this map was created	Small, 38.0	38.0
geoData	GeoData Representation	The geo data of the map	Small, 38.0	38.0
id	String	The 18 character user ID	Small, 38.0	38.0
label	String	The label of the map	Small, 39.0	39.0
name	String	The name of the map	Small, 38.0	38.0
namespace	String	The namespace of the map	Small, 39.0	39.0
projection	ConnectEclairMap ProjectionType Enum	The projection used by the map (AlbersUSA, Equirectangular, or Mercator)	Small, 38.0	38.0
url	String	The url to the map representation	Small, 38.0	38.0

MapBoundingBoxInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
bottom	Double	The bottom boundary of the geo map	Required	39.0
left	Double	The left boundary of the geo map	Required	39.0
right	Double	The right boundary of the geo map	Required	39.0
top	Double	The top boundary of the geo map	Required	39.0

BoundingBoxRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
bottom	Double	The bottom boundary of the geo map	Small, 39.0	39.0
left	Double	The left boundary of the geo map	Small, 39.0	39.0
right	Double	The right boundary of the geo map	Small, 39.0	39.0
top	Double	The top boundary of the geo map	Small, 39.0	39.0

UserRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The 18 character user ID	Small, 38.0	38.0
name	String	The name of the user	Small, 38.0	38.0

Example curl request (without bounding boxes)

```
curl -H "X-PrettyPrint: 1" \
-d '{"geoData": {"id": "<id_of_geodata_resource>"},"name":
"<developer_name_for_map>","label": "<display_label_for_map>","projection":
"equirectangular"}' \
-F "geoDataFile=@YourGeonJsonFile.json" \
-X POST \
https://yourinstanceurl/services/data/v39.0/eclair/geodata \
-H 'Authorization: OAuth OAuth Token'
```

Example Response Body

```
{
  "boundingBox": {},
  "createdBy": {
    "id": "005G00000004KRG3IAO",
    "name": "Anand B Narasimhan"
  },
  "createdDate": "2017-03-06T13:18:53.000Z",
  "geoData": {
    "id": "05oP0000000000BIAQ",
    "label": "PA_Territories",
    "name": "PA_Territories",
    "type": "geojson",
    "url": "/services/data/v39.0/eclair/geodata/05oP0000000000BIAQ/file"
  },
  "id": "05pP0000000000aIAA",
  "label": "map_label",
  "name": "map_name",
  "projection": "equirectangular",
```

```
{
  "url": "/services/data/v39.0/eclair/maps/05pP0000000000aIAA"
}
```

Example curl request (with bounding boxes)

```
curl -H "X-PrettyPrint: 1" \
-d '{"boundingBox": {"bottom": 40.5534,"left": -80.251,"right": -79.8211,"top": 40.3287},\
"geoData": {"id": "id_of_geodata_resource"},"name": "<developer_name_for_map>","\
"label": "<display_label_for_map>","projection": "equirectangular"}}' \
-F "geoDataFile=@YourGeonJsonFile.json" \
-X POST \
https://yourinstanceurl/services/data/v39.0/eclair/geodata \
-H 'Authorization: OAuth OAuth Token'
```

Example Response Body

```
{
  "boundingBox": {
    "bottom": 40.5534,
    "left": -80.251,
    "right": -79.8211,
    "top": 40.3287
  },
  "createdBy": {
    "id": "005G00000004KRG3IAO",
    "name": "Anand B Narasimhan"
  },
  "createdAt": "2017-03-06T13:18:53.000Z",
  "geoData": {
    "id": "05oP0000000000BIAQ",
    "label": "PA_Territories",
    "name": "PA_Territories",
    "type": "geojson",
    "url": "/services/data/v39.0/eclair/geodata/05oP0000000000BIAQ/file"
  },
  "id": "05pP0000000000aIAA",
  "label": "map_label",
  "name": "map_name",
  "projection": "equirectangular",
  "url": "/services/data/v39.0/eclair/maps/05pP0000000000aIAA"
}
```

Charts Maps Resource

Get, update, or delete a specific map.

Resource URL

```
/eclair/maps/<id>
```

Formats

JSON

Available Version

38.0

HTTP Methods

DELETE GET PATCH

GET Response Body

MapRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
boundingBox	BoundingBoxRepresentation	The bounding box of the geo map	Small, 38.0	39.0
createdBy	UserRepresentation	The creator of the map	Small, 38.0	38.0
createdDate	Date	The date when this map was created	Small, 38.0	38.0
geoData	GeoDataRepresentation	The geo data of the map	Small, 38.0	38.0
id	String	The 18 character user ID	Small, 38.0	38.0
label	String	The label of the map	Small, 39.0	39.0
name	String	The name of the map	Small, 38.0	38.0
namespace	String	The namespace of the map	Small, 39.0	39.0
projection	ConnectEclairMap ProjectionType Enum	The projection used by the map (AlbersUSA, Equirectangular, or Mercator)	Small, 38.0	38.0
url	String	The url to the map representation	Small, 38.0	38.0

PATCH Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
geoMapObject	Object (MapInputRepresentation)	List of all relevant information about the map, i.e. { "label": "My Map" }.		39.0

PATCH Request Body

MapInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
boundingBox	MapBoundingBoxInputRepresentation	Sets the Map bounding box.		39.0

Property Name	Type	Description	Required or Optional	Available Version
geoData	AssetReference InputRepresentation	Sets the parent GeoData.		39.0
label	String	Sets the Map label.		39.0
name	String	Sets the Map name		39.0
projection	ConnectEclairMap ProjectionType Enum	Sets the Map projection (AlbersUSA, Equirectangular, or Mercator)		39.0

PATCH Response Body

MapRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
boundingBox	BoundingBox Representation	The bounding box of the geo map	Small, 38.0	39.0
createdBy	UserRepresentation	The creator of the map	Small, 38.0	38.0
createdDate	Date	The date when this map was created	Small, 38.0	38.0
geoData	GeoData Representation	The geo data of the map	Small, 38.0	38.0
id	String	The 18 character user ID	Small, 38.0	38.0
label	String	The label of the map	Small, 39.0	39.0
name	String	The name of the map	Small, 38.0	38.0
namespace	String	The namespace of the map	Small, 39.0	39.0
projection	ConnectEclairMap ProjectionType Enum	The projection used by the map (AlbersUSA, Equirectangular, or Mercator)	Small, 38.0	38.0
url	String	The url to the map representation	Small, 38.0	38.0

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

GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
datasets	Dataset Resource on page 21[]	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

DatasetInputRepresentation

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

Property Name	Type	Description	Required or Optional	Available Version
folder	ID	<p>The 18-character ID of the folder that contains the dataset. For example:</p> <pre>"folder": { "id": "005xx000001SwTWAA0" }</pre> <p>To patch the folder, you must have edit access to the current and new folders.</p>	Optional	36.0
label	String	The label of the dataset.	Optional	36.0
name	String	<p>The name of the dataset.</p> <p> 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.</p>	Optional	36.0
userXmd	XmdInputRepresentation	User XMD associated with this dataset.	Optional	39.0

GET and PATCH Response Body

DatasetRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
assetSharingUrl	String	<p>The URL for opening this asset in the Wave builder. This is a form of deep linking. The server examines the link parameters, which might include <code>urlType</code>, <code>assetId</code>, <code>orgId</code>, and <code>loginHost</code>, as well as other optional parameters, and translates as necessary to produce the correct result on the target client. For example, it will open the wave dashboard on desktop clients, or mobile if you are on a mobile OS. For example, the shared URL:</p> <pre>http://{host}/analytics/ application/ 005xx000001SvSwAAK? urlType=sharing& orgId=00DT0000000Dpvc& loginHost=https%3A%2F%2F test.my.salesforce.com</pre>	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<p>Might produce the following web Url:</p> <pre>http://{host}/insights/web/explore.apexp#application/005xx000001SvSwAAK</pre> <p>Or it might produce the following Url on iOS:</p> <pre>com.salesforce.kona://application/005xx000001SvSwAAK&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>		
createdBy	Wave User	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	Wave User	The creator of the current version of the dataset. Only returned if the <code>filterGroup</code> input parameter is set to Supplemental.	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 Supplemental.	Supplemental, 36.0	36.0
currentVersionId	ID	The 18-character ID of the current dataset version.	Small, 36.0	36.0
currentVersionLastModifiedBy	Wave User	The user who last updated the current version of the dataset. Only returned if the <code>filterGroup</code> input parameter is set to Supplemental.	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 Supplemental.	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

Property Name	Type	Description	Filter Group and Version	Available Version
folder	Asset Reference Representation	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
lastQueriedDate	Date	Date/time when this dataset was last queried.	Small, 39.0	39.0
lastAccessedDate	Date	The last time the dataset was accessed, in ISO8601 date format.	Small, 36.0	36.0
lastModifiedBy	Wave User	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
namespace	String	The namespace of the Asset.	Small, 36.0	36.0
permissions	Permissions	The permissions for the current user.	Small, 36.0	36.0
type	String	The asset type. For datasets, the value is dataset.	Small, 36.0	36.0
url	String	The URL to the resource for the dataset.	Small, 36.0	36.0
userXmd	Xmd Representation on page 30	Reference to the associated user xmd (if any).	Medium, 39.0	39.0
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
url	String	The asset URL.	Small, 36.0	36.0

Example Response Body

```
{
  "createdBy" : {
    "id" : "005D000000018LS0IAM",
    "name" : "User Name",
    "profilePhotoUrl" : "https://yourInstance.salesforce.com/profilephoto/005/T"
  },
  "createdDate" : "2015-03-25T20:27:34.000Z",
  "currentVersionId" : "0Fcd000000000183KAA",
  "currentVersionUrl" :
"/services/data/v36.0/wave/datasets/0Fbd0000000000huKAA/versions/0Fcd000000000183KAA",
  "folder": {
    "id": "005xx0000001SwTWAA0"
  },
  "id" : "0Fbd0000000000huKAA",
  "label" : "OppHistory",
  "lastAccessedDate" : "2015-03-27T18:31:39.000Z",
  "lastModifiedBy" : {
    "id" : "005D000000018LT8IAM",
    "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	Dataset Version []	The collection of dataset versions for a particular dataset.	Small, 36.0	36.0

Example Response Body

```

{
  "url" : "/services/data/v36.0/wave/datasets/0Fb4000000000FtCAI/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" : "0Fb4000000000FtCAI",
      "url" : "/services/data/v36.0/wave/datasets/0Fb4000000000FtCAI"
    },
    "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/0Fb4000000000FtCAI/versions/0Fc4000000001VOCAY",
    "xmdsUrl" :
"/services/data/v36.0/wave/datasets/0Fb4000000000FtCAI/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	Wave User	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	Dataset Reference	A reference to the dataset.	Small, 36.0	36.0
files	WaveFileMetadata Representation []	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	Wave User	The user who last updated the dataset.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
lastModifiedDate	Date	The last time the dataset was modified, in ISO8601 date format.	Small, 36.0	36.0
permissions	Permissions	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
sharingEnabled	Boolean	Whether Sharing rules are enabled for this dataset version.	Small, 38.0	38.0
type	String	The asset type. For dataset versions, the value is <code>datasetversion</code> .	Small, 36.0	36.0
filesUrl	String	The URL of the files resource for this dataset version.	Small, 36.0	36.0
xmdMain	XMD	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" : "0FbD000000004CoMKAU",
    "url" : "/services/data/v36.0/wave/datasets/0FbD000000004CoMKAU"
  },
}
```

```

"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

Property Name	Type	Description	Required or Optional	Available Version
isComplete	Boolean	Indicates whether the Dataset Version is complete		36.0
predicate	String	The row level security predicate to be applied to this Dataset Version.		36.0
sharingEnabled	Boolean	Whether sharing rules should be on the dataset version		38.0
totalRows	Integer	The total number of rows that make up the Dataset Version		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	XMD Metadata []	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">mainsystemuser	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/0Fc4000000001VOCAI/xmds",

  "xmds" : [ {
    "type" : "main",
    "url" :
    "/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions/0Fc4000000001VOCAI/xmds/main"

  }, {
    "type" : "user",
    "url" :
    "/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions/0Fc4000000001VOCAI/xmds/user"

  }, {
    "type" : "system",
    "url" :
    "/services/data/v36.0/wave/datasets/0Fb400000000FtCAI/versions/0Fc4000000001VOCAI/xmds/system"

  } ]
}
```

XMD Resource

Returns the extended metadata (XMD) for a version of a dataset (GET) and replaces the user XMD file (PUT).

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 and PUT (on /wave/datasets/<dataset ID>/versions/<version ID>/xmds/user only)

GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
createdBy	Wave User	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

Property Name	Type	Description	Filter Group and Version	Available Version
dates	XMD Date []	A list of dates with formatting information.	Small, 36.0	36.0
derivedDimensions	XMD Dimension []	A list of derived dimensions with formatting information.	Small, 36.0	36.0
derivedMeasures	XMD Measure []	List of derived measures with formatting information.	Small, 36.0	36.0
dimensions	XMD Dimension []	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	<p>The language in which this XMD is localized. Values are:</p> <ul style="list-style-type: none"> • <code>bg</code>: Bulgarian • <code>zh_CN</code>: Chinese Simplified • <code>zh_TW</code>: Chinese Traditional • <code>hr</code>: Croatian • <code>cs</code>: Czech • <code>da</code>: Danish • <code>nl_NL</code>: Dutch • <code>en</code>: English • <code>en_GB</code>: English (United Kingdom) • <code>fi</code>: Finnish • <code>fr</code>: French • <code>de</code>: German • <code>el</code>: Greek • <code>hu</code>: Hungarian • <code>id</code>: Indonesian • <code>it</code>: Italian • <code>ja</code>: Japanese • <code>ko</code>: Korean • <code>no</code>: Norwegian • <code>pl</code>: Polish • <code>pt_PT</code>: Portuguese (Portugal) • <code>pt_BR</code>: Portuguese (Brazil) • <code>ro</code>: Romanian 	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> ru: Russian sk: Slovak sl: Slovenian es: Spanish es_mx: Spanish (Mexico) sv: Swedish th: Thai tr: Turkish uk: Ukrainian vi: Vietnamese 		
lastModifiedBy	Wave User	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	XMD Measure[]	List of measures with formatting information.	Small, 36.0	36.0
organizations	XMD Organization[]	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"> main system user 	Small, 36.0	36.0
url	String	The location where this XMD is stored.	Small, 36.0	36.0

XMD Date

Property Name	Type	Description	Filter Group and Version	Available Version
alias	String	Alias of the Date column.	Small, 36.0	36.0
fields	XMD Date Field	Formatting information for the date fields.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
firstDayOfWeek	Integer	What the first day of the week is.	Small, 36.0	36.0
fiscalMonthOffset	Integer	Offset number of months for the fiscal year in relation to the calendar year.	Small, 36.0	36.0
fullyQualifiedName	String	Fully qualified name of the date.	Small, 39.0	39.0
label	String	Label of the Date column.	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
field	String	The field name of the dimension (used in queries).	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	XMD Dimension Member []	The member overrides for a 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	XMD Dimension Salesforce Action []	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 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
field	String	The field name of the measure (used in queries).	Small, 36.0	36.0
format	XMD Measure Format	The format details for the measure.	Small, 36.0	36.0
label	String	The label for 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
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
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

PUT Request Body

Property Name	Type	Description	Required or Optional	Available Version
dataset	XmdDatasetInputRepresentation	Locale-specific information about the Dataset represented by this XMD.		36.0
dates	XmdDateInputRepresentation []	List of dates with formatting information.		36.0
derived Dimensions	XmdDerivedDimensionInputRepresentation []	List of derived dimensions with formatting information.		36.0
derived Measures	XmdDerivedMeasureInputRepresentation []	List of derived measures with formatting information.		36.0
dimensions	XmdDimensionInputRepresentation []	List of dimensions with formatting information.		36.0
measures	XmdMeasureInputRepresentation []	List of measures with formatting information.		36.0
organizations	XmdOrganizationInputRepresentation []	List of organizations for multi-organization support.		36.0
showDetails DefaultFields	String[]	Ordered list of Dimensions and Measures. Represents the default order to show them in the UI.		36.0

XmdDatasetInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
connector	String	Connector source for the dataset.		36.0
description	String	Description of the dataset.		36.0
fully QualifiedName	String	Fully qualified name of the dataset version.		36.0
origin	String	Origin representing where this dataset version comes from.		36.0

XmdDateInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
alias	String	Alias of the Date column.		36.0
fields	XmdDateFieldsInputRepresentation	Formatting information for the date fields.		36.0
firstDayOfWeek	Integer	What the first day of the week is.		36.0
fiscalMonthOffset	Integer	Offset number of months for the fiscal year in relation to the calendar year.		36.0
fullyQualifiedName	String	Fully qualified name of the date.		39.0
label	String	Label of the Date column.		36.0

XmdDateFieldsInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
day	String	day field.		36.0
epochDay	String	epochDay field.		36.0
epochSecond	String	epochSecond field.		36.0
fiscalMonth	String	fiscalMonth field.		36.0
fiscalQuarter	String	fiscalQuarter field.		36.0
fiscalWeek	String	fiscalWeek field.		36.0
fiscalYear	String	fiscalYear field.		36.0
fullField	String	fullField field.		36.0
hour	String	hour field.		36.0
minute	String	minute field.		36.0
month	String	month field.		36.0
quarter	String	quarter field.		36.0
second	String	second field.		36.0
week	String	week field.		36.0
year	String	year field.		36.0

XmdDerivedDimensionInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
members	XmdDerivedDimensionMemberInputRepresentation[]	Member overrides for a Derived Dimension.		36.0
salesforce Actions	XmdDerivedDimensionSalesforceActionInputRepresentation[]	Salesforce Actions linked to this Derived Dimension.		36.0

XmdDerivedDimensionMemberInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
color	String	Color for the member.		36.0
label	String	Label for the member.		36.0
member	String	Member value.		36.0

XmdDerivedDimensionSalesforceActionInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
enabled	Boolean	Whether the Action is enabled.		36.0
name	String	Name of the action.		36.0

XmdDerivedMeasureInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
format	XmdDerivedMeasureFormatInputRepresentation	Format details for the Derived Measure.		36.0
field	String	Field name of the Measure (used in queries).		36.0
label	String	Label for the Measure.		36.0

Property Name	Type	Description	Required or Optional	Available Version
showIn Explorer	Boolean	Whether the Measure should be shown in the Explorer.		36.0

XmdDerivedMeasureFormatInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
customFormat	String	Displays the original XMD 1.1 format array as a String.		38.0
unit Multiplier	Double	Multiplier for the unit.		36.0

XmdDimensionInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
field	String	Field name of the Dimension (used in queries).		36.0
label	String	Label for the Dimension.		36.0
linkTemplate	String	Template for formatting a Link.		36.0
linkTemplateEnabled	Boolean	Whether the Dimension has link templates enabled.		36.0
linkTooltip	String	Tooltip to be displayed for links.		36.0
members	XmdDimensionMemberInputRepresentation[]	Member overrides for a Dimension.		36.0
recordDisplayFields	String[]	Ordered list of Dimensions and Measures. Represents the default order to show them in the UI.		36.0
recordIdField	String	Record Id for this dimension.		36.0
recordOrganizationIdField	String	Record Organization Id for this dimension.		36.0
salesforce Actions	XmdDimensionSalesforceActionInputRepresentation[]	Salesforce Actions linked to this Dimension.		36.0
salesforceActionsEnabled	Boolean	Whether the Dimension has salesforce actions enabled.		36.0

Property Name	Type	Description	Required or Optional	Available Version
showInExplorer	Boolean	Whether the Dimension should be shown in the Explorer.		36.0

XmdDimensionMemberInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
color	String	Color for the member.		36.0
label	String	Label for the member.		36.0
member	String	Member value.		36.0

XmdDimensionSalesforceActionInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
enabled	Boolean	Whether the Action is enabled.		36.0
name	String	Name of the action.		36.0

XmdDimensionInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
field	String	Field name of the Dimension (used in queries).		36.0
label	String	Label for the Dimension.		36.0
linkTemplate	String	Template for formatting a Link.		36.0
linkTemplate Enabled	Boolean	Whether the Dimension has link templates enabled.		36.0
linkTooltip	String	Tooltip to be displayed for links.		36.0
members	XmdDimensionMemberInputRepresentation[]	Member overrides for a Dimension.		36.0
recordDisplay Fields	String[]	Ordered list of Dimensions and Measures. Represents the default order to show them in the UI.		36.0
recordIdField	String	Record Id for this dimension.		36.0

Property Name	Type	Description	Required or Optional	Available Version
record Organization IdField	String	Record Organization Id for this dimension.		36.0
salesforce Actions	XmdDimension SalesforceAction Input Representation []	Salesforce Actions linked to this Dimension.		36.0
salesforce Actions Enabled	Boolean	Whether the Dimension has Salesforce actions enabled.		36.0
showIn Explorer	Boolean	Whether the Dimension should be shown in the Explorer.		36.0

XmdMeasureInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
format	XmdMeasureFormat InputRepresentation	Format details for the Measure.		36.0
field	String	Field name of the Measure (used in queries).		36.0
label	String	Label for the Measure.		36.0
showIn Explorer	Boolean	Whether the Measure should be shown in the Explorer.		36.0

XmdMeasureFormatInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
customFormat	String	Displays the original XMD 1.1 format array as a String.		38.0
unit Multiplier	Double	Multiplier for the unit.		36.0

XmdOrganizationInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
id	ID	ID of the organization.		36.0
instanceUrl	String	Instance Url for the organization.		36.0
label	String	Label for the organization.		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">• Opportunities_Created_2010• Opportunities_Created_2011	Optional	36.0

Parameter Name	Type	Description	Required or Optional	Available Version
		Setting q = "Opportunities 2010" returns only Opportunities_Created_2010.		
sort	String	Sort order of the results. Values are: <ul style="list-style-type: none"> LastModified Mru: Most recently used (last viewed date) Name The default is Mru.	Optional	36.0

GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
lenses	Lens[]	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=eyJwYWdlU2l6ZSI6MjUsInNv",
  "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	AssetReference InputRepresentation on page 44	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

Property Name	Type	Description	Required or Optional	Available Version
folder	AssetReference InputRepresentation on page 44	Folder in which this lens is stored.	Required for POST, optional for PATCH	36.0
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	Lens State Input	The state of the lens.	Required for POST, optional for PATCH	36.0
visualizationType	String	<p>The visualization type to be used for this lens. Values are:</p> <ul style="list-style-type: none"> • calheatmap: Calendar heat map • comparisontable: Compare table • heatmap: Heat map • hbar: Bar • hbarhdot: Horizontal dot plot • matrix: Matrix • parallelcoords: Parallel coordinates • pie: Donut • pivottable: Pivot table • scatter: Scatter plot • stackhbar: Stacked bar • stackvbar: Stacked column • time: Timeline • valuestable: Values table • vbar: Column • vdot: Vertical dot plot 	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	Column[]	A list of the columns for a comparison table lens.	Must be specified for comparison tables only.	36.0
options	Lens Visualization Options Input	The configuration options for different lens visualizations.	Optional	36.0
query	QueryInputRepresentation on page 45	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	<p>The URL for opening this asset in the Wave builder. This is a form of deep linking. The server examines the link parameters, which might include <code>urlType</code>, <code>assetId</code>, <code>orgId</code>, and <code>loginHost</code>, as well as other optional parameters, and translates as necessary to produce the correct result on the target client. For example, it will open the wave dashboard on desktop clients, or mobile if you are on a mobile OS. For example, the shared URL:</p> <pre>http://{host}/analytics/application/005xx000001SvSwAAK?urlType=sharing&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre> <p>Might produce the following web Url:</p> <pre>http://{host}/insights/web/explore.apexp#application/005xx000001SvSwAAK</pre> <p>Or it might produce the following Url on iOS:</p> <pre>com.salesforce.kona://application/005xx000001SvSwAAK&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>	Small, 36.0	36.0
<code>createdBy</code>	Wave User	The creator of the lens.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
createdDate	Date	The time at which the lens was created, in ISO8601 date format.	Small, 36.0	36.0
dataset	Dataset Reference	A reference to the dataset used to create this lens.	Small, 36.0	36.0
files	Lens File[]	Information about the icon used to represent the lens in the user interface.	Medium, 36.0	36.0
filesUrl	String	Url to lens files.	Small, 36.0	36.0
folder	AssetReference Representation	A reference to the folder in which this lens is stored.	Small, 36.0	36.0
id	ID	The 18-character lens ID.	Small, 36.0	36.0
label	String	The label of the lens.	Small, 36.0	36.0
lastAccessed Date	Date	The last time the lens was accessed, in ISO8601 date format.	Small, 36.0	36.0
lastModified By	Wave User	The user who last updated the lens.	Small, 36.0	36.0
lastModified Date	Date	The last time the lens was modified, in ISO8601 date format.	Small, 36.0	36.0
name	String	The name of the lens.	Small, 36.0	36.0
permissions	Permissions	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 lens, in ISO8601 date format.	Small, 36.0	36.0
state	Lens State	The state of the lens.	Big, 36.0	36.0
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
visualization Type	String	<p>The visualization type used for this lens. Values are:</p> <ul style="list-style-type: none"> • <code>calheatmap</code>: Calendar heat map • <code>comparisontable</code>: Compare table • <code>heatmap</code>: Heat map • <code>hbar</code>: Bar • <code>hbarhdot</code>: Horizontal dot plot • <code>matrix</code>: Matrix 	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> • <code>parallelcoords</code>: Parallel coordinates • <code>pie</code>: Donut • <code>pivottable</code>: Pivot table • <code>scatter</code>: Scatter plot • <code>stackhbar</code>: Stacked bar • <code>stackvbar</code>: Stacked column • <code>time</code>: Timeline • <code>valuestable</code>: Values table • <code>vbar</code>: Column • <code>vdot</code>: Vertical dot plot 		

Lens File

Property Name	Type	Description	Filter Group and Version	Available Version
<code>contentType</code>	String	The content type of the file.	Small, 36.0	36.0
<code>fileLength</code>	Integer	The length of the file in KB.	Small, 36.0	36.0
<code>fileName</code>	String	The name of the file.	Small, 36.0	36.0
<code>id</code>	ID	The 18-character lens file ID.	Small, 36.0	36.0
<code>lastModified</code> <code>Date</code>	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
<code>columns</code>	Column []	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
<code>options</code>	Lens Visualization Options	The configuration options for different lens visualizations.	Small, 36.0	36.0
<code>query</code>	Query	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	Query	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"> Ascending: Sort in ascending order Descending: Sort in descending order InnerAscending: Sort within groups in ascending order InnerDescending: Sort within groups in descending order None: No sort order 	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, miniBars, multiMetrics, splitAxis, sqrt, and trellis
Compare Table	maxColumnWidth and minColumnWidth
Donut	legend, legendHideHeader, and legendWidth
Dot Plot	fit, legend, legendHideHeader, legendWidth, and sqrt
Heat Map	legend, legendHideHeader, and legendWidth
Matrix	legend, legendHideHeader, and legendWidth

Visualization Type	Valid Properties
Parallel Coordinates	<code>fit</code> , <code>legend</code> , <code>legendHideHeader</code> , <code>legendWidth</code> , and <code>sqrt</code>
Pivot Table	<code>maxColumnWidth</code> , <code>minColumnWidth</code> , and <code>totals</code>
Scatter Plot	<code>fit</code> , <code>legend</code> , <code>legendHideHeader</code> , <code>legendWidth</code> , and <code>sqrt</code>
Stacked Bar/Column	<code>legend</code> , <code>legendHideHeader</code> , <code>legendWidth</code> , <code>maxColumnWidth</code> , <code>minColumnWidth</code> , <code>miniBars</code> , <code>normalize</code> , and <code>sqrt</code>
Timeline	<code>fit</code> , <code>legend</code> , <code>legendHideHeader</code> , <code>legendWidth</code> , and <code>sqrt</code>
Values Table	<code>hideHeaderColumn</code> , <code>maxColumnWidth</code> , and <code>minColumnWidth</code>

Visualization Properties

The properties available depend on the type of visualization.

Property Name	Type	Description	Filter Group and Version	Available Version
<code>fit</code>	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
<code>hideHeaderColumn</code>	Boolean	Indicates whether to display the header column.	Small, 36.0	36.0
<code>legend</code>	Boolean	Indicates whether to display the legend.	Small, 36.0	36.0
<code>legendHideHeader</code>	Boolean	Indicates whether to hide the legend header.	Small, 36.0	36.0
<code>legendWidth</code>	Integer	The width of the legend	Small, 36.0	36.0
<code>maxColumnWidth</code>	Integer	The maximum width of the header column.	Small, 36.0	36.0
<code>minColumnWidth</code>	Integer	The minimum width of the header column.	Small, 36.0	36.0
<code>miniBars</code>	Integer	The width of the mini-bars, if used.	Small, 36.0	36.0
<code>multiMetrics</code>	Boolean	When true, indicates that multiple measures are displayed on the same chart, side-by-side. When false, each	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		measure is displayed on a separate chart. The default value is false.		
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
sqr	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" : "005D00000018LSolAM",
    "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" : "0FJD00000004CEiOAM",
    "lastModifiedDate" : "2015-02-06T17:40:29.000Z"
  } ],
  "folderId" : "001D0000000w3y6IAA",
  "id" : "0FKD00000004CVjOAM",
  "label" : "UsersWithRoles Lens",
  "lastAccessedDate" : "2015-04-02T23:02:12.000Z",
  "lastModifiedBy" : {
    "id" : "005D00000018LSoIAM",
    "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/0FKD00000004CVjOAM",
  "visualizationType" : "valuestable"
}

```

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	WaveUser Representation	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

WaveUserRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The 18 character user ID.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
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	WaveFileMetadataRepresentation []	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	WaveUser Representation	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	WaveUser Representation	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

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

Parameter Name	Type	Description	Required or Optional	Available Version
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"> • LastModified • Mru: Most recently used (last viewed date) • Name The default value is Mru.	Optional	36.0

GET Response Body

Property Name	Type	Description	Filter Group and Version	Available Version
dashboards	Dashboard Representation[]	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=eyJwYWdlU2lSI6UsInNv",
  "totalSize": 33,
  "url": "/services/data/v36.0/wave/dashboards/0FKD00000004Cb8OAE"
}
```

Dashboard Resource

Returns or updates the dashboard with the specified ID or API name.

Resource URL

```
/wave/dashboards/<dashboard ID or API name>
```

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
allowPreview	Boolean	Indicates whether this dashboard is available for preview.	Small, 36.0	36.0
assetSharingUrl	String	The URL for opening this asset in the Wave builder. This is a form of deep linking. The server examines the link parameters, which might include <code>urlType</code> , <code>assetId</code> , <code>orgId</code> , and <code>loginHost</code> , as well as other optional parameters, and translates as necessary to produce the correct result on the target client. For example, it will open the wave dashboard on desktop clients, or mobile if you are on a mobile OS. For example, the shared URL: <pre>http://{host}/analytics/application/005xx000001SvSwAAK?urlType=sharing&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<p>Might produce the following web Url:</p> <pre>http://{host}/insights/web/explore.apexp#application/005xx000001SvSwAAK</pre> <p>Or it might produce the following Url on iOS:</p> <pre>com.salesforce.kona://application/005xx000001SvSwAAK&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>		
createdBy	Wave User	The user who created the dashboard.	Small, 36.0	36.0
createdDate	Date	The time the dashboard was created.	Small, 36.0	36.0
datasets	AssetReferenceRepresentation[]	The list of datasets used to create this dashboard.	Small, 36.0	36.0
description	String	The description of the dashboard.	Small, 36.0	36.0
files	Lens File[]	The list of files used to create this dashboard.	Medium, 36.0	36.0
filesUrl	String	The URL for the files associated with the dashboard.	Small, 36.0	36.0
folder	AssetReferenceRepresentation[]	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	Wave User	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

Property Name	Type	Description	Filter Group and Version	Available Version
namespace	String	The namespace of the dashboard.	Small, 36.0	36.0
permissions	Permissions	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	Dashboard State	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 (Max 37.0)
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
layouts	Layout[]	The list of layouts for this dashboard. This list is being replaced by <code>gridLayouts</code> .	Small, 36.0	36.0
steps	Map<String, Step >	The list of steps used to create this dashboard. The key string is the step name.	Small, 36.0	36.0
widgets	Map<String, Dashboard Widget >	The list of widgets used to create this dashboard. The key string is the widget name.	Small, 36.0	36.0

GridLayoutStyleRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
backgroundColor	String	Background color for the layout.	Small, 37.0	37.0
cellSpacingX	Integer	Horizontal spacing between grid cells.	Small, 37.0	37.0
cellSpacingY	Integer	Vertical spacing between grid cells.	Small, 37.0	37.0
gutterColor	String	Gutter color of the layout.	Small, 39.0	39.0
image	AssetReference	Image representation containing the name and namespace.	Small, 39.0	39.0
widgetStyle	GridLayoutStyleRepresentation	Default styling for widgets across all layouts.	Small, 36.0	36.0—36.0

GridLayoutWidgetStyleRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
backgroundColor	String	Background color for the widget. Will be a 6 character hex string. For example: #012345.	Small, 36.0	36.0
borderColor	String	Color of the widget's border. Will be a 6 character hex string. For example: #012345.	Small, 36.0	36.0
borderEdges	GridLayoutWidgetStyleRepresentation	Edges of the border to be drawn (All, Bottom, Left, Right, or Top).	Small, 36.0	36.0
borderRadius	Object	Border radius of the widget.	Small, 36.0	36.0
borderWidth	Object	Width of the widget's border.	Small, 36.0	36.0
bottomPadding	Integer	Amount of padding on the bottom of the widget when rendered on mobile clients.	Small, 36.0	36.0
leftPadding	Integer	Amount of padding on the left of the widget when rendered on mobile clients.	Small, 36.0	36.0
rightPadding	Integer	Amount of padding on the right of the widget when rendered on mobile clients.	Small, 36.0	36.0
topPadding	Integer	Amount of padding on the top of the widget when rendered on mobile clients.	Small, 36.0	36.0

GridLayoutRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
maxWidth	Integer	Add the ability for users to specify the maximum width that their dashboard will flex to.	Small, 38.0	38.0
name	String	Name of this layout.	Small, 36.0	36.0
numColumns	Integer	Add the number of columns for a dashboard grid layout that is customizable.	Small, 38.0	38.0
pages	GridLayoutPageRepresentation	List of pages of widgets within the layout.	Small, 36.0	36.0
rowHeight	GridLayoutRowHeight	Specifies the grid cell row height (Fine or Normal).	Small, 39.0	39.0
selectors	String[]	List of selectors this layout applies to.	Small, 36.0	36.0
style	GridLayoutStyleRepresentation	Styling for the layout.	Small, 37.0	37.0
version	Double	Version of this layout.	Small, 36.0	36.0
widgetStyle	GridLayoutWidgetStyleRepresentation	Default styling for widgets within the layout.	Small, 36.0	36.0—37.0

GridLayoutPageRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
widgets	GridLayoutWidgetRepresentation	Widgets within the page.	Small, 36.0	36.0

GridLayoutWidgetRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
backgroundImage	String	Background image for the widget.	Small, 36.0	36.0
colspan	Integer	Number of grid layout columns this widget spans.	Small, 36.0	36.0
column	Integer	Column where this widget is located.	Small, 36.0	36.0
name	String	Name of the widget.	Small, 36.0	36.0
row	Integer	Row where this widget is located.	Small, 36.0	36.0
rowspan	Integer	Number of grid layout rows this widget spans.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
widgetStyle	Global Widget Style	Style of the widget.	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"> • Applewatch • Default • External • Ipad • Iphone 	Small, 36.0	36.0
orientation	String	The layout orientation of this dashboard. Values are: <ul style="list-style-type: none"> • Landscape • Portrait 	Small, 36.0	36.0
pages	Layout Page []	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	columns, datasets, globalQuery, isFacet, isGlobal, label, selectMode, start, type, useGlobal, and visualizationParameters

Step Type	Valid Properties
Query step	<code>datasets</code> , <code>isFacet</code> , <code>isGlobal</code> , <code>label</code> , <code>query</code> , <code>selectMode</code> , <code>start</code> , <code>type</code> , <code>useGlobal</code> , and <code>visualizationParameters</code>
Saql step	<code>datasets</code> , <code>groups</code> , <code>isFacet</code> , <code>isGlobal</code> , <code>label</code> , <code>numbers</code> , <code>query</code> , <code>selectMode</code> , <code>start</code> , <code>strings</code> , <code>type</code> , <code>useGlobal</code> , and <code>visualizationParameters</code>
Soql step	<code>groups</code> , <code>isFacet</code> , <code>label</code> , <code>numbers</code> , <code>query</code> , <code>selectMode</code> , <code>start</code> , <code>strings</code> , <code>type</code> , <code>useGlobal</code>
Static Flex step	<code>datasets</code> , <code>dimensions</code> , <code>groups</code> , <code>isFacet</code> , <code>isGlobal</code> , <code>label</code> , <code>selectMode</code> , <code>start</code> , <code>strings</code> , <code>type</code> , <code>useGlobal</code> , <code>values</code>
Static step	<code>datasets</code> , <code>dimensions</code> , <code>isFacet</code> , <code>isGlobal</code> , <code>label</code> , <code>selectMode</code> , <code>start</code> , <code>type</code> , <code>useGlobal</code> , <code>values</code> , and <code>visualizationParameters</code>

Step Properties

Property Name	Type	Description	Filter Group and Version	Available Version
<code>columns</code>	Column[]	The queries to run for this step.	Small, 36.0	36.0
<code>datasets</code>	AssetReferenceRepresentation[]	The list of datasets used by this step.	Small, 36.0	36.0
<code>dimensions</code>	<code>String[]</code>	The list of dimensions for a static step.	Small, 36.0	36.0
<code>globalQuery</code>	>Query	Query override for all columns.	Small, 36.0	36.0
<code>isFacet</code>	<code>Boolean</code>	Indicates whether this step is faceted to any other step.	Small, 36.0	36.0
<code>isGlobal</code>	<code>Boolean</code>	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>groups</code>	<code>String[]</code>	List of names for the projected columns which the results are grouped by for a Step.	Small, 39.0	39.0
<code>label</code>	<code>String</code>	Display label for the step.	Small, 39.0	39.0
<code>numbers</code>	<code>String[]</code>	List of projected column names of the step.	Small, 39.0	39.0
<code>query</code>	Query	The query to run for this step.	Small, 36.0	36.0
<code>selectMode</code>	<code>String</code>	The select mode used to create the step (multi, multirequired, none, single, or singlerequired).	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
start	String	The start value for the step.	Small, 36.0	36.0
strings	String[]	List of projected column names of the step.	Small, 39.0	39.0
type	String	The type of the dashboard step. Values are: <ul style="list-style-type: none"> Aggregate AggregateFlex Grain Multi Saql Soql Static StaticFlex 	Small, 36.0	36.0
useGlobal	Boolean	If true, the step gets tied to the global step.	Small, 39.0	39.0
values	String[]	The list of values for a static step.	Small, 36.0	36.0
visualization Parameters	Step Visualization Parameters	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	Lens Visualization Options	The configuration options for different step visualizations.	Small, 36.0	36.0
visualizationType	String	The type of visualization. Values are: <ul style="list-style-type: none"> calheatmap: Calendar heat map comparisontable: Compare table heatmap: Heat map hbar: Bar hbarhdot: Horizontal dot plot matrix: Matrix 	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> • <code>parallelcoords</code>: Parallel coordinates • <code>pie</code>: Donut • <code>pivottable</code>: Pivot table • <code>scatter</code>: Scatter plot • <code>stackhbar</code>: Stacked bar • <code>stackvbar</code>: Stacked column • <code>time</code>: Timeline • <code>valuestable</code>: Values table • <code>vbar</code>: Column • <code>vdot</code>: Vertical dot plot 		

Dashboard Widget

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

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> Url ValuesTable 		

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
Compare Table	exploreLink, maxColumnWidth, minColumnWidth, selectModeOverride, step, and totals
Container	alignmentX, alignmentY, documentId, fit, image, exploreLink, maxColumnWidth, minColumnWidth, selectModeOverride, step, and totals
Date Selector	calendarTypeSwitchingAllowed, defaultAbsoluteMode, defaultFiscalMode, expanded, instant, modeSwitchingAllowed, selectModeOverride, step, and title
Global Filters	step and selectModeOverride
Image	alignmentX, alignmentY, documentId, fit, image, step and selectModeOverride
Link	destination, destinationLink, destinationType, fontSize, includeState, selectModeOverride, text, textAlignment, textColor, and visualizationType
List Selector	compact, displayTemplate, expanded, exploreLink, instant, measureField, selectModeOverride, step, and title
Number	compact, exploreLink, fontSize, measureField, numberColor, numberSize, selectModeOverride, step, textAlignment, textColor, title, titleColor, titleSize
Pill Box	compact, displayTemplate, exploreLink, measureField, selectModeOverride, step, and title
Range Selector	instant, selectModeOverride, step, and title
Text	fontSize, selectModeOverride, text, textAlignment, and textColor
Table	customBulkActions, exploreLink, pivoted, selectModeOverride, step
Url	selectModeOverride, type, url, and videoSize

Widget Type	Valid Properties
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>alignmentX</code>	<code>ConnectWaveHorizontalAlignmentEnum</code>	Horizontal Alignment of the image. Valid values: Left, Center, Right.	Small, 37.0	37.0
<code>alignmentY</code>	<code>ConnectWaveVerticalAlignmentEnum</code>	Vertical Alignment of the image. Valid values: Top, Center, Bottom.	Small, 37.0	37.0
<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>calendarTypesSwitchingAllowed</code>	Boolean	Indicates whether widget can switch calendar types.	Small, 39.0	39.0
<code>compact</code>	Boolean	Indicates whether the widget is compact.	Small, 36.0	36.0
<code>customBulkActions</code>	CustomBulkActionRepresentation	Custom bulk actions for this widget.	Small, 39.0	39.0
<code>defaultAbsoluteMode</code>	Boolean	Indicates default date mode.	Small, 39.0	39.0
<code>defaultFiscalMode</code>	Boolean	Indicates default calendar type.	Small, 39.0	39.0
<code>destination</code>	String	The destination of the link.	Small, 36.0	36.0
<code>destinationLink</code>	AssetReferenceRepresentation	The destination (Dashboard, Lens, step) reference of this link.	Small, 39.0	39.0
<code>destinationType</code>	String	The type of asset the link refers to. Values are: <ul style="list-style-type: none"> Dashboard Explore Lens Url 	Small, 36.0	36.0
<code>displayTemplate</code>	String	Display template for widget level projection.	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
documentId	String	Document Id of an image (Images uploaded using salesforce's document API).	Small, 37.0	37.0
expanded	Boolean	Indicates whether the widget is expanded.	Small, 36.0	36.0
exploreLink	Boolean	Indicates whether exploreLink is on.	Small, 36.0	36.0
fit	ConnectWaveImageFitTypeEnum	Image fit inside this widget. Valid values: Original, Tile, Cover, Stretch.	Small, 37.0	37.0
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
image	AssetReferenceRepresentation	Image representation containing the name and namespace.	Small, 39.0	39.0
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

Property Name	Type	Description	Filter Group and Version	Available Version
modeSwitchingAllowed	Boolean	Indicates whether widget can switch between two date modes.	Small, 39.0	39.0
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
numberColor	String	Color of the number inside this widget.	Small, 36.0	36.0
numberSize	Object	Size of the number.	Small, 36.0	36.0
pivoted	Boolean	Value indicating whether to display table as pivot.	Small, 39.0	39.0
selectModeOverride	String	The select mode used to create the step (multi, multirequired, none, single, singlerequired).	Small, 36.0	36.0
splitAxis	Boolean	If true, each measure is projected on one axis. If false, all measures share an axis.	Small, 36.0	36.0
sqr	Boolean	Indicates whether the horizontal and vertical axes use a square root scale.	Small, 36.0	36.0
step	String	The step name tied to this widget.	Small, 36.0	36.0
stretch	Boolean	Indicates whether to stretch the widget.	Small, 36.0	36.0
text	String	The value of the text.	Small, 36.0	36.0
textAlignment	String	The alignment of the text. Values are: <ul style="list-style-type: none"> Center Left Right 	Small, 36.0	36.0
textColor	String	The text color for the widget.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
<code>title</code>	String	The title of the widget.	Small, 36.0	36.0
<code>titleColor</code>	String	Color of the title inside this widget.	Small, 36.0	36.0
<code>titleSize</code>	Object	Size of the title text.	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"> • <code>Youtube</code> 	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"> • <code>calheatmap</code>: Calendar heat map • <code>comparisontable</code>: Compare table • <code>heatmap</code>: Heat map • <code>hbar</code>: Bar • <code>hbarhdot</code>: Horizontal dot plot • <code>matrix</code>: Matrix • <code>parallelcoords</code>: Parallel coordinates • <code>pie</code>: Donut • <code>pivottable</code>: Pivot table • <code>scatter</code>: Scatter plot • <code>stackhbar</code>: Stacked bar • <code>stackvbar</code>: Stacked column • <code>time</code>: Timeline • <code>valuestable</code>: Values table 	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> vbar: Column vdot: Vertical dot plot 		

Widget Position

Property Name	Type	Description	Filter Group and Version	Available Version
h	String	The height of the widget.	Small, 36.0	36.0
w	String	The width of the widget.	Small, 36.0	36.0
x	Integer	The x-index of the widget.	Small, 36.0	36.0
y	Integer	The y-index of the widget.	Small, 36.0	36.0
zIndex	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	DashboardStateInputRepresentation	The state of the dashboard.	Optional for PATCH, required for POST	36.0
folder	AssetReferenceInputRepresentation	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	GridLayoutStyleInputRepresentation	Overall styling for the GridLayouts used as part of this dashboard.	Optional	36.0 - 37.0
gridLayouts	List (GridLayoutInputRepresentation)	List of GridLayoutInputRepresentation 's used as part of this dashboard. If present, 'layouts' must not be set.	Optional	36.0
layouts	List (LayoutInputRepresentation)	List of LayoutInputRepresentation 's used as part of this dashboard.	Optional	36.0
steps	Map (key of type String) (AggregateFlexQueryStepInputRepresentation , AggregateQueryStepInputRepresentation , GrainQueryStepInputRepresentation , MultiQueryStepInputRepresentation , SaqIStepInputRepresentation , SoqIStepInputRepresentation , StaticFlexStepInputRepresentation , StaticStepInputRepresentation ,)	Map of all the steps used to create this dashboard keyed with their names.	Optional	36.0
widgetStyle	GridLayoutWidgetStyleInputRepresentation	Default styling for widgets in this dashboard.	Optional	37.0
widgets	Map (key of type String) (DashboardWidgetInputRepresentation)	Map of all the DashboardWidgetInputRepresentation '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	Context dependant	37.0

Property Name	Type	Description	Required or Optional	Available Version
		orgs that have set a namespace. So only set namespace when referencing a dataset that is from an installed managed package.		

* 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
backgroundColor	String	Background color for the layout.		37.0
cellSpacingX	Integer	Horizontal spacing between grid cells.		37.0
cellSpacingY	Integer	Vertical spacing between grid cells.		37.0
gutterColor	String	Gutter color of the layout.		39.0
image	AssetReferenceRepresentation	Image representation containing the name and namespace.	Small, 39.0	39.0
widgetStyle	GridLayoutWidgetStyleInputRepresentation	Default styling for widgets across all layouts.	Optional	36.0

AggregateFlexQueryStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
query	QueryInputRepresentation	SAQL used to create this Step	Optional for PATCH, required for POST	36.0
datasets	AssetReferenceInputRepresentation[]	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

Property Name	Type	Description	Required or Optional	Available Version
isGlobal	Boolean	If true, this step is a global filter which can be faceted to other steps/widgets in dashboard.	Optional	36.0
label	String	Display label for the step.		39.0
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, AggregateFlex, Grain, Multi, Saql, Soql, Static, or StaticFlex).	Optional for PATCH, required for POST	36.0
useGlobal	Boolean	If true, step gets tied to the global step	Optional	36.0
visualizationParameters	StepVisualizationParametersInputRepresentation	The Visualization Parameters for the dashboard step.	Optional	36.0

AggregateQueryStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
query	QueryInputRepresentation	SAQL used to create this Step	Optional for PATCH, required for POST	36.0
datasets	AssetReferenceInputRepresentation []	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
label	String	Display label for the step.		39.0
selectMode	ConnectWaveSelectModeEnum	The selectmode used (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0
start	String	Start value for the step.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
type	ConnectWaveDashboardStepTypeEnum	The type of the dashboard step (Aggregate, AggregateFlex, Grain, Multi, Saql, Soql, Static, or StaticFlex).	Optional for PATCH, required for POST	36.0
useGlobal	Boolean	If true, step gets tied to the global step	Optional	36.0
visualizationParameters	StepVisualizationParametersInputRepresentation	The Visualization Parameters for the dashboard step.	Optional	36.0

GrainQueryStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
query	QueryInputRepresentation	SAQL Query to run for this step.	Optional for PATCH, required for POST	36.0
datasets	AssetReferenceInputRepresentation[]	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
label	String	Display label for the step.		39.0
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, AggregateFlex, Grain, Multi, Saql, Soql, Static, or StaticFlex).	Optional for PATCH, required for POST	36.0
useGlobal	Boolean	If true, step gets tied to the global step	Optional	36.0
visualizationParameters	StepVisualizationParametersInputRepresentation	The Visualization Parameters for the dashboard step.	Optional	36.0

MultiQueryStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
columns	ColumnInputRepresentation []	The list of columns of the comparison table.	Optional	36.0
globalQuery	QueryInputRepresentation	Query override for all columns.	Optional	36.0
datasets	AssetReferenceInputRepresentation []	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
label	String	Display label for the step.		39.0
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, AggregateFlex, Grain, Multi, Saql, Soql, Static, or StaticFlex).	Optional for PATCH, required for POST	36.0
useGlobal	Boolean	If true, step gets tied to the global step.	Optional	36.0
visualizationParameters	StepVisualizationParametersInputRepresentation	The Visualization Parameters for the dashboard step.	Optional	36.0

SaqlStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
groups	String[]	Names for the projected columns which the results are grouped by for a Step		39.0
isFacet	Boolean	Determines if this step is tied/faceted to any other step		39.0
label	String	Display label for the step.		39.0
numbers	String[]	projected column names of the step		39.0
query	String	SAQL used to create this Step		39.0

Property Name	Type	Description	Required or Optional	Available Version
selectMode	OneOfSelectMode	The selectmode used (Multi, MultiRequired, None, Single, or SingleRequired).		39.0
start	String	Start value for the step.		39.0
strings	String[]	projected column names of the step		39.0
type	OneOfDashboardType	The type of the dashboard step (Aggregate, AggregateFlex, Grain, Multi, Saql, Soql, Static, or StaticFlex).		36.0
useGlobal	Boolean	If true, step gets tied to the global step		39.0

SoqlStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
groups	String[]	Names for the projected columns which the results are grouped by for a Step		39.0
isFacet	Boolean	Determines if this step is tied/faceted to any other step		39.0
label	String	Display label for the step.		39.0
numbers	String[]	projected column names of the step		39.0
query	String	SOQL used to create this Step		39.0
selectMode	OneOfSelectMode	The selectmode used (Multi, MultiRequired, None, Single, or SingleRequired).		39.0
start	String	Start value for the step.		39.0
strings	String[]	projected column names of the step		39.0
type	OneOfDashboardType	The type of the dashboard step (Aggregate, AggregateFlex, Grain, Multi, Saql, Soql, Static, or StaticFlex).		36.0
useGlobal	Boolean	If true, step gets tied to the global step		39.0

StaticFlexStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
<code>datasets</code>	AssetReferenceInputRepresentation[]	The List of all the dataset alias used in this step.	Optional	36.0
<code>dimensions</code>	<code>String[]</code>	List of dimensions of the static step.	Optional	36.0
<code>groups</code>	<code>String[]</code>	Names for the projected columns which the results are grouped by for a Step		39.0
<code>isFacet</code>	<code>Boolean</code>	Determines if this step is tied/faceted to any other step	Optional	36.0
<code>isGlobal</code>	<code>Boolean</code>	If true, this step is a global filter which can be faceted to other steps/widgets in dashboard.	Optional	36.0
<code>label</code>	<code>String</code>	Display label for the step.		39.0
<code>numbers</code>	<code>String[]</code>	projected column names of the step		39.0
<code>selectMode</code>	<code>ConnectWaveSelectModeEnum</code>	The selectmode used (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0
<code>start</code>	<code>String</code>	Start value for the step.	Optional	36.0
<code>strings</code>	<code>String[]</code>	projected column names of the step		39.0
<code>type</code>	<code>ConnectWaveDashboardStepTypeEnum</code>	The type of the dashboard step (Aggregate, AggregateFlex, Grain, Multi, Saql, Soql, Static, or StaticFlex).	Optional for PATCH, required for POST	36.0
<code>useGlobal</code>	<code>Boolean</code>	If true, step gets tied to the global step	Optional	36.0
<code>values</code>	<code>String[]</code>	List of values of this step.	Optional	36.0
<code>visualizationParameters</code>	StepVisualizationParametersInputRepresentation	The Visualization Parameters for the dashboard step.	Optional	36.0

StaticStepInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
datasets	AssetReferenceInputRepresentation []	The List of all the dataset alias used in this step.	Optional	36.0
dimensions	String[]	List of dimensions of the static 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
label	String	Display label for the step.		39.0
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, AggregateFlex, Grain, Multi, Saql, Soql, Static, or StaticFlex).	Optional for PATCH, required for POST	36.0
useGlobal	Boolean	If true, step gets tied to the global step	Optional	36.0
values	String[]	List of values of this step.	Optional	36.0
visualization Parameters	StepVisualizationParametersInputRepresentation	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

Property Name	Type	Description	Required or Optional	Available Version
query	QueryInputRepresentation	SAQL used to create this comparison table.	Optional	36.0
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	LensVisualizationOptionsInputRepresentation	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
maxWidth	Integer	The maximum width that the dashboard will flex to.	Optional	38.0
name	String	Name of this layout.	Required	36.0

Property Name	Type	Description	Required or Optional	Available Version
numColumns	Integer	The number of columns for a customizable dashboard grid layout.	Optional	38.0
pages	GridLayoutPageInputRepresentation []	List of pages of widgets within the layout.	Optional	36.0
rowHeight	ConnectWaveRowHeightEnum	Row Height of a grid layout cell (Fine or Normal).		39.0
selectors	String[]	List of selectors this layout applies to.	Optional	36.0
style	GridLayoutStyleInputRepresentation	Styling for the layout.	Optional	37.0
version	Double	Version of this layout.	Required	36.0
widgetStyle	GridLayoutWidgetStyleInputRepresentation	Default styling for widgets within the layout.	Optional	36.0 - 37.0

GridLayoutPageInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
widgets	GridLayoutWidgetInputRepresentation []	List of widgets within the page.	Required	36.0

GridLayoutWidgetInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
backgroundImage	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	GridLayoutWidgetStyleInputRepresentation	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
bottom Padding	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	LayoutPageInputRepresentation []	List of LayoutPageInput Representation'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 BoxWidgetParametersInputRepresentation , CompareTableWidgetParametersInputRepresentation , ContainerWidgetParametersInputRepresentation , DateSelectorWidgetParametersInputRepresentation , GlobalFiltersWidgetParametersInputRepresentation , ImageWidgetParametersInputRepresentation , LinkWidgetParametersInputRepresentation , ListSelectorWidgetParametersInputRepresentation , NumberWidgetParametersInputRepresentation , PillBoxWidgetParametersInputRepresentation , RangeSelectorWidgetParametersInputRepresentation , TableWidgetParametersInputRepresentation , TextWidgetParametersInputRepresentation , UrlWidgetParametersInputRepresentation , or ValuesTableWidgetParametersInputRepresentation	Valid widget parameters based on its type.	Optional for PATCH, required for POST	36.0
position	WidgetPositionInputRepresentation	Position information of the widget on a dashboard.	Optional for PATCH, required for POST	36.0
type	ConnectWaveWidgetTypeEnum	The type of the widget (Box, Chart, CompareTable, Container, DateSelector, GlobalFilters, Link,	Optional for PATCH, required for POST	36.0

Property Name	Type	Description	Required or Optional	Available Version
		ListSelector, Number, PillBox, RangeSelector, Table, Text, Url, or ValuesTable).		

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 DocumentId 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
selectMode Override	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
selectMode Override	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

ContainerWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
alignmentX	ConnectWaveHorizontalAlignmentEnum	Horizontal Alignment of the Image (Left, Center, Right).		37.0
alignmentY	ConnectWaveVerticalAlignmentEnum	Vertical Alignment (Bottom, Center, Top).		37.0
containedWidgets	String[]	List of widgets (by name) contained within this widget.	Optional	36.0-37.0
documentId	String	Document Id of the image.		37.0
fit	ConnectWaveImageFitTypeEnum	The image fit (FitHeight, FitWidth, Original, Stretch, Tile).		37.0
image	AssetReferenceInputRepresentation	Image representation containing the name and namespace.	Small, 39.0	39.0
imageUrl	String	The URI of the image to be used for the container widget.	Optional	36.0-36.0
stretchImage	Boolean	Value indicating whether to stretch the container widget background image.	Optional	36.0-36.0
selectMode Override	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

DateSelectorWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
calendarTypesSwitchingAllowed	Boolean	Indicates whether widget can switch calendar types.		39.0
defaultAbsoluteMode	Boolean	Indicates default date mode.		39.0
defaultFiscalMode	Boolean	Indicates default calendar type.		39.0
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
modeSwitchingAllowed	Boolean	Indicates whether widget can switch between two date modes.		39.0

Property Name	Type	Description	Required or Optional	Available Version
selectModeOverride	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	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

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

ImageWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
alignmentX	ConnectWaveAlignEnum	Horizontal Alignment of the Image (Left, Center, Right).		37.0
alignmentY	ConnectWaveAlignEnum	Vertical Alignment (Bottom, Center, Top).		37.0
documentId	String	Document Id of the image		37.0
fit	ConnectWaveImageFitEnum	The image fit (FitHeight, FitWidth, Original, Stretch, Tile).		37.0
image	AsReferenceRepresentation	Image representation containing the name and namespace		39.0

LinkWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
destination	String	The destination of this link.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
destinationLink	AssetReferenceInputRepresentation	The Destination of this link, reference to Dashboard, Lens or Step.		
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
textAlignment	ConnectWaveHorizontalAlignment Enum	The Text Alignment for this widget (Center, Left, or Right).		39.0
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
selectMode Override	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
displayTemplate	String	Display template for widget level projection.		39.0
expanded	Boolean	Value indicating whether the list selector is expanded or not.	Optional	36.0

Property Name	Type	Description	Required or Optional	Available Version
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
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
selectMode Override	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	Object	Font size of the text.	Optional	36.0
measureField	String	The measure field this number is calculated upon.	Optional	36.0
numberColor	String	Color of the number inside this widget.	Optional	36.0
numberSize	Object	Size of the number.	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

Property Name	Type	Description	Required or Optional	Available Version
titleColor	String	Color of the title inside this widget.	Optional	36.0
titleSize	Object	Size of the title text.	Optional	36.0
selectMode Override	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
displayTemplate	String	Display template for widget level projection.		39.0
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
selectMode Override	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

Property Name	Type	Description	Required or Optional	Available Version
selectMode Override	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).	Optional	36.0

TableWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
customBulk Actions	CustomBulkActions	Custom bulk actions for this widget.		39.0
exploreLink	Boolean	Value indicating whether to display exploreLink or not.		38.0
pivoted	Boolean	Value indicating whether to display table as pivot.		39.0
step	String	Step name tied to this widget.		38.0
selectMode Override	ConnectWaveSelectModeEnum	Select Mode Override (Multi, MultiRequired, None, Single, or SingleRequired).		36.0

TextWidgetParametersInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
fontSize	Object	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
textColor	String	The color of the text.	Optional	36.0
selectMode Override	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
selectMode Override	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
selectMode Override	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

Property Name	Type	Description	Required or Optional	Available Version
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

CustomBulkActionInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
label	String	Label for the custom action		39.0
visualforce	Visualforce Page	Visualforce page to invoke for the custom action		39.0

CustomBulkActionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
label	String	Label for the custom action	Small, 39.0	39.0
visualforce	Visualforce Page	Visualforce page to invoke for the custom action.	Small, 39.0	39.0

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	<p>The URL for opening this asset in the Wave builder. This is a form of deep linking. The server examines the link parameters, which might include <code>urlType</code>, <code>assetId</code>, <code>orgId</code>, and <code>loginHost</code>, as well as other optional parameters, and translates as necessary to produce the correct result on the target client. For example, it will open the wave dashboard on desktop clients, or mobile if you are on a mobile OS. For example, the shared URL:</p> <pre>http://{host}/analytics/application/005xx000001SvSwAAK?urlType=sharing&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre> <p>Might produce the following web Url:</p> <pre>http://{host}/insights/web/explore.apexp#application/005xx000001SvSwAAK</pre> <p>Or it might produce the following Url on iOS:</p> <pre>com.salesforce.kona://application/005xx000001SvSwAAK&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>	Small, 36.0	36.0
dashboards	Dependency Collection Representation	The dashboards that depend on the asset.	Small, 36.0	36.0
datasets	Dependency Collection Representation	The datasets that depend on the asset.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
folder	AssetReference Representation	The folder containing the asset.	Small, 36.0	36.0
id	String	The 18-character asset ID.	Small, 36.0	36.0
lastModifiedBy	Wave User	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	Dependency Collection Representation	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"> • dashboard • dataset • folder • lens • workflow 	Small, 36.0	36.0
url	String	The URL to retrieve the definition of the asset.	Small, 36.0	36.0
workflows	Dependency Collection Representation	The dataflows that depend on the asset.	Small, 36.0	36.0

DependencyCollectionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
dependencies	Dependency[]	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

Property Name	Type	Description	Filter Group and Version	Available Version
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=00040&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/729400000000003y/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
canUseXmdEditor	Boolean	Can the user use the XMD Editor.	Small, 38.0	38.0
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
isPinned	Bool			36.0
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">• LastModified• Mru: Most recently used (last viewed date)• Name The default is Mru.	Optional	36.0
templateSourceId	String			36.0

GET Response Body

WaveFolderCollectionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
folders	Wave Folder[]	A list of folders or applications.	Small, 36.0	36.0

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

POST Request Body

WaveFolderInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
applicationStatus	OneOfApplicationStatusEnum	The creation status of application (CancelledStatus, CompletedStatus, DataflowInProgressStatus, FailedStatus, InProgressStatus, NewStatus).		36.0
assetIcon	String	The icon enumeration that best represents the new folder or application. Valid values are 1.png through 20.png.		36.0
attachedFiles	AssetReferenceRepresentation	The attached file id list		39.0
canBeSharedExternally	Boolean	Whether the application is shared in Communities		37.0
defaultAsset	AssetReferenceRepresentation	The ID of a lens/dashboard which is presented by default for this application in App Runtime.		37.0
description	String	The description of the new folder or application.		36.0
featuredAssets	Map (FeatureAssetReferenceRepresentation)	The featured assets for this application to be used in the UI.		39.0
isPinned	Boolean	Whether the application is a pinned folder or not		39.0
label	String	The user-facing name of the new folder or application.		36.0
name	String	The internal api name of the new folder or application.		36.0
shares	WaveFolderShareRepresentation	The folder sharing rules.		36.0

POST Response Body

WaveFolderRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
applicationStatus	ConnectWave Application StatusEnum	The creation status of application (CancelledStatus, CompletedStatus, DataflowInProgressStatus, FailedStatus, InProgressStatus, NewStatus) .	Medium, 36.0	36.0
attachedFiles	AssetReference Representation []	The id's of the files attached to the insights folder	Big, 39.0	39.0
canBeSharedExternally	Boolean	Whether this app can be shared with Community Users.	Big, 37.0	37.0
defaultAsset	AssetReference Representation	The default asset(lens/dashboard) that is presented when the app is viewed in AppRuntime mode.	Big, 37.0	37.0
featuredAssets	Map (AssetReference Representation)	The featured assets for this application to be used in the UI.	Big, 39.0	39.0
icon	AssetReference Representation	The asset icon.	Small, 36.0	36.0
isPinned	Boolean	Whether this app is pinned/unpinned	Small, 39.0	39.0
shares	WaveFolder Share Representation []	The folder shares list.	Big, 36.0	36.0
templateOptions	Template Options Representation	The options used on the last action performed on a templated Wave Application.	Big, 37.0	37.0
templateSourceId	String	The source template ID or api name used to create the folder or application.	Medium, 36.0	36.0
templateValues	Map (Object)	The template values used to create or update the folder or application (where applicable).	Big, 37.0	37.0
templateVersion	String	The version of the template this application was created from.	Medium, 37.0	37.0
assetSharingUrl	String	The URL for opening this asset in the Wave builder. This is a form of deep linking. The server examines the link parameters, which might include	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<p>urlType, assetId, orgId, and loginHost, as well as other optional parameters, and translates as necessary to produce the correct result on the target client. For example, it will open the wave dashboard on desktop clients, or mobile if you are on a mobile OS. For example, the shared URL:</p> <pre>http://{host}/analytics/application/005xx000001SvSwAAK?urlType=sharing&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre> <p>Might produce the following web Url:</p> <pre>http://{host}/insights/web/explore.apexp#application/005xx000001SvSwAAK</pre> <p>Or it might produce the following Url on iOS:</p> <pre>com.salesforce.kona://application/005xx000001SvSwAAK&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>		
createdBy	WaveUser Representation	The asset creator.	Small, 36.0	36.0
createdDate	Date	Time the asset was created.	Small, 36.0	36.0
description	String	Short description of the asset.	Small, 36.0	36.0
id	String	The 18 character asset ID.	Small, 36.0	36.0
label	String	The label of the asset.	Small, 36.0	36.0
lastAccessedDate	Date	Last time the asset was accessed.	Small, 36.0	36.0
lastModifiedBy	WaveUser Representation	The user that last updated the asset.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
lastModifiedDate	Date	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	Permissions Representation	Represents permissions for the present user.	Small, 36.0	36.0
type	ConnectWave AssetTypeEnum	The asset type. Values are: <ul style="list-style-type: none"> Dashboard DataConnector Dataflow Dataset DatasetShard (internal) DatasetVersion ExternalData Folder Lens Recipe ReplicatedDataset Workflow 	Small, 36.0	36.0
url	String	URL to get the definition of the asset.	Small, 36.0	36.0

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

WaveFolderInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
applicationStatus	ConnectWaveApplicationStatusEnum	The creation status of application (CancelledStatus, CompletedStatus, DataflowInProgressStatus, FailedStatus, InProgressStatus, NewStatus).		36.0
assetIcon	String	The icon enumeration that best represents the new folder or application. Valid values are 1.png through 20.png.		36.0
attachedFiles	AssetReferenceRepresentation[]	The attached file id list		39.0
canBeSharedExternally	Boolean	Whether the application is shared in Communities		37.0
defaultAsset	AssetReferenceRepresentation	The ID of a lens/dashboard which is presented by default for this application in App Runtime.		37.0
description	String	The description of the new folder or application.		36.0
featuredAssets	Map (AssetReferenceRepresentation)	The featured assets for this application to be used in the UI.		39.0
isPinned	Boolean	Whether the application is a pinned folder or not		39.0
label	String	The user-facing name of the new folder or application.		36.0
name	String	The internal api name of the new folder or application.		36.0
shares	WaveFolderRepresentation[]	The folder sharing rules.		36.0

GET, PUT, and PATCH Response Body

WaveFolderRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
applicationStatus	ConnectWaveApplicationStatusEnum	The creation status of application (CancelledStatus, CompletedStatus, DataflowInProgressStatus, FailedStatus, InProgressStatus, NewStatus) .	Medium, 36.0	36.0
attachedFiles	AssetReferenceRepresentation[]	The id's of the files attached to the insights folder	Big, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
canBeSharedExternally	Boolean	Whether this app can be shared with Community Users.	Big, 37.0	37.0
defaultAsset	AssetReference Representation	The default asset(lens/dashboard) that is presented when the app is viewed in AppRuntime mode.	Big, 37.0	37.0
featuredAssets	Map (FolderShareRepresentation)	The featured assets for this application to be used in the UI.	Big, 39.0	39.0
icon	AssetReference Representation	The asset icon.	Small, 36.0	36.0
isPinned	Boolean	Whether this app is pinned/unpinned	Small, 39.0	39.0
shares	WaveFolder Share Representation []	The folder shares list.	Big, 36.0	36.0
templateOptions	Template Options Representation	The options used on the last action performed on a templated Wave Application.	Big, 37.0	37.0
templateSourceId	String	The source template ID or api name used to create the folder or application.	Medium, 36.0	36.0
templateValues	Map (Object)	The template values used to create or update the folder or application (where applicable).	Big, 37.0	37.0
templateVersion	String	The version of the template this application was created from.	Medium, 37.0	37.0
assetSharingUrl	String	The URL for opening this asset in the Wave builder. This is a form of deep linking. The server examines the link parameters, which might include <code>urlType</code> , <code>assetId</code> , <code>orgId</code> , and <code>loginHost</code> , as well as other optional parameters, and translates as necessary to produce the correct result on the target client. For example, it will open the wave dashboard on desktop clients, or mobile if you are on a mobile OS. For example, the shared URL: <div>http://{host}/analytics/application/</div>	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<pre>005xx000001SvSwAAK? urlType=sharing& orgId=00DT0000000Dpvc& loginHost= https%3A%2F%2F test.my.salesforce.com</pre> <p>Might produce the following web Url:</p> <pre>http://{host}/insights/ web/explore.apexp# application/ 005xx000001SvSwAAK</pre> <p>Or it might produce the following Url on iOS:</p> <pre>com.salesforce.kona:// application/ 005xx000001SvSwAAK& orgId=00DT0000000Dpvc& loginHost= https%3A%2F%2F test.my.salesforce.com</pre>		
createdBy	WaveUser Representation	The asset creator.	Small, 36.0	36.0
createdDate	Date	Time the asset was created.	Small, 36.0	36.0
description	String	Short description of the asset.	Small, 36.0	36.0
id	String	The 18 character asset ID.	Small, 36.0	36.0
label	String	The label of the asset.	Small, 36.0	36.0
lastAccessedDate	Date	Last time the asset was accessed.	Small, 36.0	36.0
lastModifiedBy	WaveUser Representation	The user that last updated the asset.	Small, 36.0	36.0
lastModifiedDate	Date	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	Permissions Representation	Represents permissions for the present user.	Small, 36.0	36.0
type	ConnectWave AssetTypeEnum	The asset type. Values are: <ul style="list-style-type: none"> • Dashboard 	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<ul style="list-style-type: none"> • DataConnector • Dataflow • Dataset • DatasetShard (internal) • DatasetVersion • ExternalData • Folder • Lens • Recipe • ReplicatedDataset • Workflow 		
url	String	URL to get the definition of the asset.	Small, 36.0	36.0

WaveFolderShareInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
accessType	ConnectWaveAccessTypeEnum	The access type (Edit, Manage, View).		36.0
shareType	ConnectWaveShareTypeEnum	The share type (AllCspUsers, AllPmUsers, CustomerPortalUser, Group, Organization, PartnerUser, PortalRole, PortalRoleAndSubordinates, Role, RoleAndSubordinates, User).		36.0
sharedWithId	ID	ID of the entity that the folder is shared with.		36.0

Wave Folder Share

WaveFolderShareRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
accessType	ConnectWaveAccessTypeEnum	The access type of the user (Edit, Manage, or View).	Small, 36.0	36.0
imageUrl	String	The url of the user image.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
shareType	ConnectWave ShareTypeEnum	The share type of the user. <ul style="list-style-type: none"> AllCspUsers AllPrmUsers CustomerPortalUser Group Organization PartnerUser PortalRole PortalRoleAndSubordinates Role RoleAndSubordinates User 	Small, 36.0	36.0
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

FeaturedAssetsInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
assets	AssetRepresentation	List of default featured assets.		39.0

Template Options

TemplateOptionsRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
appAction	ConnectWave TemplateApp ActionEnum	The last template action performed on the templated application (Create or Upgrade).	Medium, 37.0	37.0
appActionDate	Date	The date/time the last action was performed.	Medium, 37.0	37.0
appActionUser	WaveUserRepresentation	The user that performed the last action.	Medium, 37.0	37.0

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"
}
```

Replicated Datasets Resource

Replicates data from an external Source Object into a Wave as a dataset. Replicated Datasets are not intended to be visualized directly, but are used like a cache to speed up other workflows which refer to the same source object.

Resource URL

```
/wave/replicatedDatasets/<ID>
```

Requires the following permissions:

- orgHasReplicationEnabled
- ELTEditor
- InsightsAdmin

Formats

JSON

Available Version

37.0

HTTP Methods

DELETE GET PATCH

GET Response Body

ReplicatedDatasetRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
connector	DatasetRepresentation	Internal Use	Small, 37.0	37.0
datasetId	String	Dataset ID that is associated with the source object being replicated	Small, 38.0	38.0
fieldCount	Integer	Indicates column count for the replicated dataset	Small, 38.0	38.0
fieldsUrl	String	Url to get the fields associated with the replicated dataset	Small, 37.0	37.0
filterApplied	Boolean	Indicates if filters have been applied to the replicated dataset	Small, 38.0	38.0
incrementalOn	Boolean	Indicates if Incremental is on for the replicated dataset	Small, 38.0	38.0
lastRefreshedDate	Date	Indicates the date when the dataset was last run	Small, 38.0	38.0
passThrough Filter	String	The replicated objects pass through filter string	Small, 38.0	38.0
sourceObjectName	String	The name of the source object being replicated.	Small, 37.0	37.0

Property Name	Type	Description	Filter Group and Version	Available Version
status	Replicated Dataset Status	Current Status of the replicated dataset (Cancelled, Checkpoint, Dequeued, Enqueued, Failure, Initiated, New, Serviced, Stale, Success, Warnings).	Small, 38.0	38.0
assetSharingUrl	String	<p>The URL for opening this asset in the Wave builder. This is a form of deep linking. The server examines the link parameters, which might include <code>urlType</code>, <code>assetId</code>, <code>orgId</code>, and <code>loginHost</code>, as well as other optional parameters, and translates as necessary to produce the correct result on the target client. For example, it will open the wave dashboard on desktop clients, or mobile if you are on a mobile OS. For example, the shared URL:</p> <pre>http://{host}/analytics/application/005xx000001SvSwAAK?urlType=sharing&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre> <p>Might produce the following web Url:</p> <pre>http://{host}/insights/web/explore.apexp#application/005xx000001SvSwAAK</pre> <p>Or it might produce the following Url on iOS:</p> <pre>com.salesforce.kona://application/005xx000001SvSwAAK&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>	Small, 36.0	36.0
createdBy	WaveUser Representation	Represents asset creator.	Small, 36.0	36.0
createdDate	Date	Time the asset was created.	Small, 36.0	36.0
description	String	Short description of the asset.	Small, 36.0	36.0
id	String	The 18 character asset ID.	Small, 36.0	36.0
label	String	The label of the asset.	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
lastAccessed Date	Date	Last time the asset was accessed.	Small, 36.0	36.0
lastModifiedBy	WaveUser Representation	The user that last updated the asset.	Small, 36.0	36.0
lastModified Date	Date	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	Permissions Representation	Represents permissions for the present user.	Small, 36.0	36.0
type	ConnectWaveAssetTypeEnum	The asset type (Dashboard, Dataflow, Dataset, DatasetShard, DatasetVersion, ExternalData, Folder, Lens, Recipe, ReplicatedDataset, or Workflow).	Small, 36.0	36.0
url	String	URL to get the definition of the asset.	Small, 36.0	36.0

PATCH Request Body

ReplicatedDatasetInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
connectorId	String	Internal use.		39.0
passThrough Filter	String	Passthrough filter for the replicated object		38.0
sourceObjectName	String	The name of the source object to be replicated.		37.0

PATCH Response Body

ReplicatedDatasetRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
connector	DataConnectorRepresentation	Internal Use	Small, 37.0	37.0
datasetId	String	Dataset ID that is associated with the source object being replicated	Small, 38.0	38.0

Property Name	Type	Description	Filter Group and Version	Available Version
fieldCount	Integer	Indicates column count for the replicated dataset	Small, 38.0	38.0
fieldsUrl	String	Url to get the fields associated with the replicated dataset	Small, 37.0	37.0
filterApplied	Boolean	Indicates if filters have been applied to the replicated dataset	Small, 38.0	38.0
incrementalOn	Boolean	Indicates if Incremental is on for the replicated dataset	Small, 38.0	38.0
lastRefreshedDate	Date	Indicates the date when the dataset was last run	Small, 38.0	38.0
passThrough Filter	String	The replicated objects pass through filter string	Small, 38.0	38.0
sourceObjectName	String	The name of the source object being replicated.	Small, 37.0	37.0
status	Replicated Dataset Status	Current Status of the replicated dataset (Cancelled, Checkpoint, Dequeued, Enqueued, Failure, Initiated, New, Serviced, Stale, Success, Warnings).	Small, 38.0	38.0
assetSharingUrl	String	<p>The URL for opening this asset in the Wave builder. This is a form of deep linking. The server examines the link parameters, which might include <code>urlType</code>, <code>assetId</code>, <code>orgId</code>, and <code>loginHost</code>, as well as other optional parameters, and translates as necessary to produce the correct result on the target client. For example, it will open the wave dashboard on desktop clients, or mobile if you are on a mobile OS. For example, the shared URL:</p> <pre>http://{host}/analytics/application/005xx000001SvSwAAK?urlType=sharing&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre> <p>Might produce the following web Url:</p> <pre>http://{host}/insights/web/explore.apexp#application/005xx000001SvSwAAK</pre>	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<p>Or it might produce the following Url on iOS:</p> <pre>com.salesforce.kona://application/005xx000001SvSwAAK&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>		
createdBy	WaveUser Representation	Represents asset creator.	Small, 36.0	36.0
createdDate	Date	Time the asset was created.	Small, 36.0	36.0
description	String	Short description of the asset.	Small, 36.0	36.0
id	String	The 18 character asset ID.	Small, 36.0	36.0
label	String	The label of the asset.	Small, 36.0	36.0
lastAccessed Date	Date	Last time the asset was accessed.	Small, 36.0	36.0
lastModifiedBy	WaveUser Representation	The user that last updated the asset.	Small, 36.0	36.0
lastModified Date	Date	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	Permissions Representation	Represents permissions for the present user.	Small, 36.0	36.0
type	ConnectWaveAssetTypeEnum	The asset type (Dashboard, Dataflow, Dataset, DatasetShard, DatasetVersion, ExternalData, Folder, Lens, Recipe, ReplicatedDataset, or Workflow).	Small, 36.0	36.0
url	String	URL to get the definition of the asset.	Small, 36.0	36.0

PATCH Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
replicated Dataset	Object (Replicated DatasetInput Representation)	Replicated Dataset to use to update target.	Required	38.0

Replicated Datasets List Resource

Returns a list of replicated datasets.

Resource URL

```
/wave/replicatedDatasets
```

Requires the following permissions:

- orgHasReplicationEnabled
- ELTEditor
- InsightsAdmin

Formats

JSON

Available Version

37.0

HTTP Methods

GET POST

GET Response Body

ReplicatedDatasetCollectionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
replicated Datasets	ReplicatedDataset Representation []	A list of Replicated Datasets.	Small, 37.0	37.0
url	String	The URL to get the collection.	Small, 37.0	37.0

POST Request Body

ReplicatedDatasetInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
connectorId	String	Internal use.		39.0
passThrough Filter	String	Passthrough filter for the replicated object		38.0
sourceObject Name	String	The name of the source object to be replicated.		37.0

POST Response Body

ReplicatedDatasetRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
connector	Data Connector Representation	Internal Use	Small, 37.0	37.0
datasetId	String	Dataset ID that is associated with the source object being replicated	Small, 38.0	38.0
fieldCount	Integer	Indicates column count for the replicated dataset	Small, 38.0	38.0
fieldsUrl	String	Url to get the fields associated with the replicated dataset	Small, 37.0	37.0
filterApplied	Boolean	Indicates if filters have been applied to the replicated dataset	Small, 38.0	38.0
incrementalOn	Boolean	Indicates if Incremental is on for the replicated dataset	Small, 38.0	38.0
lastRefreshedDate	Date	Indicates the date when the dataset was last run	Small, 38.0	38.0
passThrough Filter	String	The replicated objects pass through filter string	Small, 38.0	38.0
sourceObjectName	String	The name of the source object being replicated.	Small, 37.0	37.0
status	Replicated Dataset Status	Current Status of the replicated dataset (Cancelled, Checkpoint, Dequeued, Enqueued, Failure, Initiated, New, Serviced, Stale, Success, Warnings).	Small, 38.0	38.0
assetSharingUrl	String	<p>The URL for opening this asset in the Wave builder. This is a form of deep linking. The server examines the link parameters, which might include <code>urlType</code>, <code>assetId</code>, <code>orgId</code>, and <code>loginHost</code>, as well as other optional parameters, and translates as necessary to produce the correct result on the target client. For example, it will open the wave dashboard on desktop clients, or mobile if you are on a mobile OS. For example, the shared URL:</p> <pre>http://{host}/analytics/application/005xx000001SvSwAAK?urlType=sharing&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
		<p>Might produce the following web Url:</p> <pre>http://{host}/insights/web/explore.apexp#application/005xx000001SvSwAAK</pre> <p>Or it might produce the following Url on iOS:</p> <pre>com.salesforce.kona://application/005xx000001SvSwAAK&orgId=00DT0000000Dpvc&loginHost=https%3A%2F%2Ftest.my.salesforce.com</pre>		
createdBy	WaveUser Representation	Represents asset creator.	Small, 36.0	36.0
createdDate	Date	Time the asset was created.	Small, 36.0	36.0
description	String	Short description of the asset.	Small, 36.0	36.0
id	String	The 18 character asset ID.	Small, 36.0	36.0
label	String	The label of the asset.	Small, 36.0	36.0
lastAccessed Date	Date	Last time the asset was accessed.	Small, 36.0	36.0
lastModifiedBy	WaveUser Representation	The user that last updated the asset.	Small, 36.0	36.0
lastModified Date	Date	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	Permissions Representation	Represents permissions for the present user.	Small, 36.0	36.0
type	ConnectWaveAssetTypeEnum	The asset type (Dashboard, Dataflow, Dataset, DatasetShard, DatasetVersion, ExternalData, Folder, Lens, Recipe, ReplicatedDataset, or Workflow).	Small, 36.0	36.0
url	String	URL to get the definition of the asset.	Small, 36.0	36.0

POST Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
replicated Dataset	Object (Replicated DatasetInput Representation)	Replicated Dataset to use to update target.	Required	37.0

Replicated Dataset Fields Resource

A list of Replicated Fields for a particular Replicated Dataset.

Resource URL

```
/wave/replicatedDatasets/<Id>/fields
```

Requires the following permissions:

- orgHasReplicationEnabled
- ELTEditor
- InsightsAdmin

Formats

JSON

Available Version

37.0

HTTP Methods

GET PATCH

GET Response Body

ReplicatedFieldCollectionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
fields	ReplicatedField Representation []	A list of replicated fields.	Small, 37.0	37.0
url	String	URL to get the collection.	Small, 37.0	37.0

ReplicatedFieldRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
skipped	Boolean	If set and true, this field will not be replicated, but the field metadata can still be stored and retrieved.	Small, 37.0	37.0

PATCH Request Body

ReplicatedFieldCollectionInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
fields	ReplicatedFieldInputRepresentation []	The list of field configurations.		37.0

ReplicatedFieldInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
defaultValue	Object	An optional default value.		37.0
description	String	A long-form description of the field.		37.0
fieldType	ConnectWaveFieldTypeEnum	The type of the field (Date, Numeric, or Text).		37.0
format	String	For dates, the format string is used to parse the input value; for other field types, theformat string is used for display.		37.0
label	String	A user-friendly label for the field.		37.0
multiValue	Boolean	Indicates if the field is multit-value or not (default false).		37.0
multiValueSeparator	String	The value separator, used only if this is a multi-value field.		37.0
name	String	The field's developer name.		37.0
precision	Integer	The numeric precision or text length depending on field type.		37.0
scale	Integer	The numeric scale.		37.0
skipped	Boolean	If set, this field is ignored when replicating. The field metadata is not deleted, however, so the field can be 'unskipped' and made active later.		37.0
systemField	Boolean	Indicates if the field is a system field (default false). System fields are not queryable.		37.0
uniqueId	Boolean	Indicates if the field is a unique ID for the data set (default false). There can be only one unique ID for any dataset.		37.0

PATCH Response Body

ReplicatedFieldCollectionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
fields	ReplicatedFieldRepresentation []	A list of replicated fields.	Small, 37.0	37.0
url	String	URL to get the collection.	Small, 37.0	37.0

PATCH Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
replicated Fields	Object (ReplicatedFieldCollectionInputRepresentation)	The field collection for updating the replicated dataset.	Required	37.0

Templates List Resource

Returns a list of Wave Analytics templates, or adds a template.

Resource URL

```
/wave/templates
```

Formats

JSON

Available Version

36.0

HTTP Methods

GET POST

GET Request Parameters

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

GET Response Body

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

POST Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
templateParam	TemplateInputRepresentation	Wave Template Input Representation		39.0

POST Request Body

[TemplateInputRepresentation](#)

Property Name	Type	Description	Required or Optional	Available Version
dataflow	AssetReferenceInputRepresentation	Dataflow associated with this app.		39.0
folderSource	AssetReferenceInputRepresentation	Folder from which this template should be created from.		39.0
description	String	Short Description of the asset.		36.0
label	String	The label of the asset.		36.0
name	String	The name of the asset.		36.0

POST Response Body

[TemplateRepresentation](#)

TemplateCollectionRepresentation

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

Templates Resource

Adds or returns the representation for a Wave Analytics template.

Resource URL

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

Formats

JSON

Available Version

36.0

HTTP Methods

DELETE GET PUT

GET Response Body

TemplateRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
assetIcon	String	The icon that best represents the Wave application.	Small, 36.0	36.0
assetVersion	Double	Asset version (api version) of all the dashboards and lenses.	Big, 37.0	37.0
configurationUrl	String	The URL to the configuration of the template.	Small, 36.0	36.0
description	String	The description of the application template.	Big, 36.0	36.0
folderSource	AssetReference Representation	The folder source of this template	Medium, 39.0	39.0
id	String	The ID or fully qualified API name of this template.	Small, 36.0	36.0
label	String	The localized name of the application template.	Small, 36.0	36.0
name	String	The local API name of the application template.	Medium, 36.0	36.0
namespace	String	The namespace of the application template provider.	Medium, 36.0	36.0
releaseInfo	TemplateRelease Representation	The release information for this template	Medium, 37.0	37.0
templateIcon	String	The icon that best represents the Wave application template.	Small, 36.0	36.0
templateType	ConnectWave TemplateTypeEnum	The template type, if empty or null then template type is app. <ul style="list-style-type: none"> • App • Dashboard 	Small, 36.0	36.0

Property Name	Type	Description	Filter Group and Version	Available Version
<ul style="list-style-type: none">Lens				
url	String	The URL to the detail of the template.	Small, 36.0	36.0

PUT Request Body[TemplateInputRepresentation](#)**PUT Response Body**[TemplateRepresentation](#)**PUT Request Parameters**

Parameter Name	Type	Description	Required or Optional	Available Version
templateParam	TemplateInputRepresentation on page 122	Wave Template Input Representation		39.0

TemplateReleaseRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
notesUrl	String	The URL to the release notes for this template	Small, 37.0	37.0
templateVersion	String	The version of this template.	Small, 37.0	37.0

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 Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
disableApex	Bool	Disables any apex integration hooks if true. Default is false.	Optional	36.0

GET Response Body

TemplateConfigurationRepresentation

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

Wave UI Definition

UiDefinitionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
display Messages	DisplayMessage Representation []	The display messages for this template configuration.	Small, 36.0	36.0
pages	Page []	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

PageRepresentation

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. {{Variables.selectedOption}}).	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	PageVariable Representation on page 126[]	The collection of variables for this template configuration.	Small, 36.0	36.0

PageVariableRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
name	String	The name of a variable.	Small, 36.0	36.0
visibility	String	The visibility expression for this variable	Small, 36.0	36.0

Wave Variable Definition

VariableDefinitionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
computed Value	Object	The computed value of the variable. This value is set by integrated apex implementations.	Small, 38.0	38.0
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
exclude Selected	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[]	List of values to exclude from the variable selection.	Small, 36.0	36.0
label	String	The label for the variable.	Small, 36.0	36.0
mostRecent Value	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

Property Name	Type	Description	Filter Group and Version	Available Version
variableType	VariableTypeRepresentation	The type of the variable.	Small, 36.0	36.0

VariableTypeRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
type	VariableTypeEnum	<p>The type of the variable:</p> <ul style="list-style-type: none">• ArrayType: The variable type is an array of objects.• BooleanType: The variable type is of type boolean (true, false).• DatasetDateType: The variable type is date within a dataset.• DatasetDimensionType: The variable type is dimension within a dataset.• DatasetMeasureType: The variable type is measure within a dataset.• DatasetType: The variable type is dataset type that references a dataset within your organization.• DateTimeType: The variable type is of type date/time.• NumberType: Restricts user input to values of numeric type.• ObjectType: The variable type is an arbitrary object.• SobjectFieldType: The variable type is sObject-field, or references a field within an sObject. See also sObject variable type.• SobjectType: The variable type is of type sObject, or should reference an sObject within your organization.• StringType: The variable type is of type string	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"
        }
    }
}

```

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

Trended Reports List Resource

Returns or adds to a collection of Trending Reports.

Resource URL

```
/wave/trendedreports
```

Formats

JSON

Available Version

37.0

HTTP Methods

GET POST

GET Response Body

TrendedReportCollectionRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
trended Reports	TrendedReport Representation[]	A collection of trended reports.	Small, 37.0	37.0
url	String	URL to get the collection.	Small, 37.0	37.0

POST Request Body

TrendedReportInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
apexHooks Class	AssetReference InputRepresentation	Reference to the apex class to execute after successful trending.		38.0
dashboard Label	String	Label for the Wave Dashboard that will be created.		37.0
datasetLabel	String	Reference to the report being trended.		37.0
report	AssetReference InputRepresentation	Reference to the report being trended.		37.0
schedule	DailyScheduleInput Representation, WeeklySchedule	Schedule on which the trending should be run.		39.0

Property Name	Type	Description	Required or Optional	Available Version
	Input Representation, MonthlyRelativeScheduleInput Representation, MonthlySpecificScheduleInput Representation			

POST Response Body

TrendedReportRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
apexHooksClass	AssetReferenceRepresentation	Reference to the apex class which is used for post processing each time the report is trended.	Small, 37.0	38.0
dashboard	AssetReferenceRepresentation	Reference to the Dashboard for the trended report.	Small, 37.0	37.0
dataset	AssetReferenceRepresentation	Reference to the Dataset with the trended report data.	Small, 37.0	37.0
id	String	The 18 character ID of the trended report.	Small, 37.0	37.0
report	AssetReferenceRepresentation	Reference to the Report that is being trended.	Small, 37.0	37.0
schedule	DailyScheduleRepresentation, WeeklyScheduleRepresentation, MonthlyRelativeScheduleRepresentation, MonthlySpecificScheduleRepresentation	Schedule of when this report is trended.	Small, 39.0	39.0
url	String	The URL for the trended report.	Small, 37.0	37.0

POST Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
trendedReport	Object (Trended ReportInput Representation)	The trended report to add.	Required	37.0

DailyScheduleInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
frequency	ConnectWaveScheduleFrequencyTypeEnum	How often the schedule should be run (Daily, Monthly, MonthlyRelative, or Weekly).		39.0
time	TimeInput Representation	When the schedule should be run.		39.0

WeeklyScheduleInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
frequency	ConnectWaveScheduleFrequencyTypeEnum	How often the schedule should be run (Daily, Monthly, MonthlyRelative, or Weekly).		39.0
time	TimeInput Representation	When the schedule should be run.		39.0
daysOfWeek	ConnectWaveDayOfWeekEnum[]	Days of the week on which the schedule will run (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday).		39.0

MonthlyRelativeScheduleInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
frequency	ConnectWaveScheduleFrequencyTypeEnum	How often the schedule should be run (Daily, Monthly, MonthlyRelative, or Weekly).		39.0
time	TimeInput Representation	When the schedule should be run.		39.0

Property Name	Type	Description	Required or Optional	Available Version
dayInWeek	ConnectWaveDayOfWeekEnum	Day of the week when the schedule should be run (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday).		39.0
weekInMonth	ConnectWaveRelativeWeekEnum	Relative week in the month when the schedule should be run (First, Second, Third, Fourth, Last).		39.0

MonthlySpecificScheduleInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
frequency	ConnectWaveScheduleFrequencyTypeEnum	How often the schedule should be run (Daily, Monthly, MonthlyRelative, or Weekly).		39.0
time	TimeInputRepresentation	When the schedule should be run.		39.0
daysOfMonth	Integer[]	Days of the month on which the schedule will run (1-31). Note that months lacking specific days will skip the job.		39.0

TimeInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
hour	Integer	Hour on which the schedule should be run (in the user's time zone).		39.0

DailyScheduleRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
frequency	ConnectWaveScheduleFrequencyTypeEnum	Frequency on which this schedule is run (Daily, Monthly, MonthlyRelative, or Weekly).	Small, 39.0	39.0
time	TimeRepresentation	Hour and timezone in which this schedule is run.	Small, 39.0	39.0

WeeklyScheduleRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
frequency	ConnectWaveScheduleFrequencyTypeEnum	Frequency on which this schedule is run (Daily, Monthly, MonthlyRelative, or Weekly).	Small, 39.0	39.0
time	TimeRepresentation	Hour and timezone in which this schedule is run.	Small, 39.0	39.0
daysOfWeek	ConnectWaveDayOfWeekEnum[]	Days of the week on which the schedule will run (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday).	Small, 39.0	39.0

MonthlyRelativeScheduleRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
frequency	ConnectWaveScheduleFrequencyTypeEnum	Frequency on which this schedule is run (Daily, Monthly, MonthlyRelative, or Weekly).	Small, 39.0	39.0
time	TimeRepresentation	Hour and timezone in which this schedule is run.	Small, 39.0	39.0
dayInWeek	ConnectWaveDayOfWeekEnum	Day within a week (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday).	Small, 39.0	39.0
weekInMonth	ConnectWaveRelativeWeekEnum	Week within a month (First, Second, Third, Fourth, Last).	Small, 39.0	39.0

MonthlySpecificScheduleRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
frequency	ConnectWaveScheduleFrequencyTypeEnum	Frequency on which this schedule is run (Daily, Monthly, MonthlyRelative, or Weekly).	Small, 39.0	39.0
time	TimeRepresentation	Hour and timezone in which this schedule is run.	Small, 39.0	39.0
daysOfMonth	Integer[]	Days of the month on which the schedule will run (-1, 1-31). Note that months lacking specific days will skip the job. Can specify a single value of -1 to indicate the	Small, 39.0	39.0

Property Name	Type	Description	Filter Group and Version	Available Version
		last day of the month (-1 cannot be used with additional days).		

TimeRepresentation

>

Property Name	Type	Description	Filter Group and Version	Available Version
hour	Integer	Hour at which this schedule is run (0-23).	Small, 39.0	39.0
timeZone	TimeZone Representation	Time zone of the hour at which the schedule is run.	Small, 39.0	39.0

TimeZoneRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
gmtOffset	Double	The signed offset, in hours, from GMT.	Small, 39.0	39.0
name	String	The display name of this time zone.	Small, 39.0	39.0

Trended Reports Resource

Returns, deletes, or updates a Trending Report.

Resource URL

```
/wave/trendedreports/<Id>
```

Formats

JSON

Available Version

37.0

HTTP Methods

DELETE GET PATCH

GET Response Body

TrendedReportRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
apexHooks Class	AssetReference Representation	Reference to the apex class which is used for post processing each time the report is trended.	Small, 37.0	38.0
dashboard	AssetReference Representation	Reference to the Dashboard for the trended report.	Small, 37.0	37.0
dataset	AssetReference Representation	Reference to the Dataset with the trended report data.	Small, 37.0	37.0
id	String	The 18 character ID of the trended report.	Small, 37.0	37.0
report	AssetReference Representation	Reference to the Report that is being trended.	Small, 37.0	37.0
Schedule	DailySchedule Representation , WeeklySchedule Representation , MonthlyRelative Schedule Representation , MonthlySpecific Schedule Representation	Schedule of when this report is trended.	Small, 39.0	39.0
url	String	The URL for the trended report.	Small, 37.0	37.0

PATCH Request Body

TrendedReportInputRepresentation

Property Name	Type	Description	Required or Optional	Available Version
apexHooks Class	AssetReference InputRepresentation	Reference to the apex class to execute after successful trending.		38.0
dashboard Label	String	Label for the Wave Dashboard that will be created.		37.0
datasetLabel	String	Reference to the report being trended.		37.0
report	AssetReference InputRepresentation	Reference to the report being trended.		37.0
schedule	DailyScheduleInput Representation , WeeklySchedule Input Representation ,	Schedule on which the trending should be run.		39.0

Property Name	Type	Description	Required or Optional	Available Version
	MonthlyRelativeScheduleInputRepresentation, MonthlySpecificScheduleInputRepresentation			

PATCH Response Body

TrendedReportRepresentation

Property Name	Type	Description	Filter Group and Version	Available Version
apexHooksClass	AssetReferenceRepresentation	Reference to the apex class which is used for post processing each time the report is trended.	Small, 37.0	38.0
dashboard	AssetReferenceRepresentation	Reference to the Dashboard for the trended report.	Small, 37.0	37.0
dataset	AssetReferenceRepresentation	Reference to the Dataset with the trended report data.	Small, 37.0	37.0
id	String	The 18 character ID of the trended report.	Small, 37.0	37.0
report	AssetReferenceRepresentation	Reference to the Report that is being trended.	Small, 37.0	37.0
schedule	DailyScheduleRepresentation, WeeklyScheduleRepresentation, MonthlyRelativeScheduleRepresentation, MonthlySpecificScheduleRepresentation	Schedule of when this report is trended.	Small, 39.0	39.0
url	String	The URL for the trended report.	Small, 37.0	37.0

PATCH Request Parameters

Parameter Name	Type	Description	Required or Optional	Available Version
trendedReport	Object (Trended ReportInput Representation)	The object with which to update the trended report.	Required	38.0

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	Annotation Representation on page 139[]	The list of annotations for this asset and feedSubject.	Small, 37.0	37.0
feedSubject	AssetReference Representation on page 24	The feed subject for all annotations.	Small, 37.0	37.0
subscriptionId	String	18-character ID of the subscription.	Small, 38.0	38.0
url	String	URL to get this collection.	Small, 37.0	37.0

POST Request Body[AnnotationInputRepresentation](#) on page 139**POST Response Body**[AnnotationRepresentation](#) on page 139

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	AssetReference Representation on page 24	The referenced asset.	Small, 37.0	37.0
feedElement	AssetReference Representation on page 24	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

Property Name	Type	Description	Required or Optional	Available Version
asset	AssetReference InputRepresentation on page 74	The referenced asset of the annotation.	Required	37.0
feedElement	AssetReference InputRepresentation on page 74	The referenced feed element of the annotation.	Required	37.0
resolved	Boolean	The resolved state of the annotation.	Optional	37.0

PATCH Response Body

[AnnotationRepresentation](#) on page 139