
Wave REST API Developer's Guide (Pilot)

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WORKING WITH THE WAVE REST API


Wave REST API Overview (Pilot)

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

-  **Note:** We provide this feature to selected customers through a pilot program that requires agreement to specific terms and conditions. To be nominated to participate in the program, contact Salesforce. Because pilot programs are subject to change, we can't guarantee acceptance. This pilot feature isn't generally available, as referenced in this document or in press releases or public statements. We can't guarantee that it will become generally available within any particular time frame or at all. Make your purchase decisions only on the basis of generally available features.

Authentication (Pilot)

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

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For information on setting up authentication, see [Understanding Authentication](#)

WAVE REST API REFERENCE

Wave REST API Resources (Pilot)

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



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Lists the top-level resources available for Analytics Cloud.

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Returns information about the UI configuration for Analytics Cloud.

[Query Resource](#)

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

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Returns a collection of Analytics Cloud datasets.

[Dataset Resource](#)

Returns the Analytics Cloud dataset with the specified ID.

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Returns an Analytics Cloud dataset version.

[Lenses List Resource](#)

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

[Lens Resource](#)

Returns the Analytics Cloud lens with the specified ID (GET), or deletes a lens (DELETE).

[File Resource](#)

Provides access to the files that make up a dataset.

Wave Resource

Lists the top-level resources available for Analytics Cloud.

Resource

`/wave`

Available version

34.0

HTTP methods

GET

Response body for GET[Wave Directory](#)**Example response body**

```
{
  "datasets" : "/services/data/v34.0/wave/datasets",
  "lenses" : "/services/data/v34.0/wave/lenses",
  "query" : "/services/data/v34.0/wave/query"
}
```

UI Configuration Resource

Returns information about the UI configuration for Analytics Cloud.

Resource

```
/wave/config/ui
```

Available version

34.0

HTTP methods

GET

Response body for GET[UI Configuration](#)**Example response body**

```
{
  "maxGroups" : 4,
  "maxMeasures" : 4
}
```

Query Resource

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

Resource

```
/wave/query
```

Available version

34.0

HTTP methods

POST

Request body for POST[Saql Query Input](#)

Request parameters for POST

Parameter Name	Type	Description	Required or Optional	Available Version
query	String	The SAQL query.		34.0

Response body for POST[Literal LSON](#)**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 the [Analytics Cloud SAQL Reference \(Pilot\)](#).

Datasets List Resource

Returns a collection of Analytics Cloud datasets.

Resource

```
/wave/datasets
```

Available version

34.0

HTTP methods

GET

Request parameters for GET

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.		34.0

Parameter Name	Type	Description	Required or Optional	Available Version
hasCurrentOnly	Boolean	Filters the list of datasets to include only those that have a current version.		34.0
page	String	A generated token that indicates the view of datasets to be returned.		34.0
pageSize	Int	Number of items to be returned in a single page. Minimum is 1, maximum is 200, and the default is 25.		34.0
q	String	Search terms. Wild cards are not supported.		34.0
sort	Enum	Sort order of the results. Values are: <ul style="list-style-type: none"> • LastModified • Mru: Most recently used (last viewed date) • Name 		34.0

Response body for GET[Dataset Collection](#)**Example response body**

```
{
  "datasets" : [ "/* Datasets detail omitted for brevity. */" ],
  "nextPageUrl" : "/services/data/v34.0/wave/datasets?page=eyJwYWdlU2l6ZSI6MjUsInNv",
  "totalSize" : 33,
  "url" : "/services/data/v34.0/wave/datasets"
}
```

Dataset Resource

Returns the Analytics Cloud dataset with the specified ID.

Resource

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

Available version

34.0

HTTP methods

GET

Response body for GET[Dataset](#)

Example response body

```
{
  "createdBy" : {
    "id" : "005D00000018LSoIAM",
    "name" : "User Name",
    "profilePhotoUrl" : "https://na1.salesforce.com/profilephoto/005/T"
  },
  "createdDate" : "2015-03-25T20:27:34.000Z",
  "currentVersionId" : "0FcD00000000183KAA",
  "currentVersionUrl" :
"/services/data/v34.0/wave/datasets/0FbD000000000huKAA/versions/0FcD00000000183KAA",
  "folderId" : "005D00000018LSoIAM",
  "id" : "0FbD000000000huKAA",
  "label" : "OppHistory",
  "lastAccessedDate" : "2015-03-27T18:31:39.000Z",
  "lastModifiedBy" : {
    "id" : "005D00000018LT8IAM",
    "name" : "Integration User",
    "profilePhotoUrl" : "https://na1.salesforce.com/profilephoto/005/U"
  },
  "lastModifiedDate" : "2015-03-25T20:27:44.000Z",
  "name" : "OppHistory",
  "permissions" : {
    "modify" : true,
    "view" : true
  },
  "type" : "dataset",
  "url" : "/services/data/v34.0/wave/datasets/0FbD000000000huKAA"
}
```

Version Resource

Returns an Analytics Cloud dataset version.

Resource

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

Available version

34.0

HTTP methods

GET and PATCH

Response body for GET

[Dataset Version](#)

Example response body

Example TBD

Request body for PATCH

[Dataset Version Input](#)

Request parameters for PATCH

Parameter Name	Type	Description	Required or Optional	Available Version
datasetVersion	Object			34.0

Response body for PATCH[Dataset Version](#)

Lenses List Resource

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

Resource

```
/wave/lenses
```

Available version

34.0

HTTP methods

GET and POST

Request parameters for GET

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.		34.0
page	String	A generated token that indicates the view of the lenses to be returned.		34.0
pageSize	Int	Number of items to be returned in a single page. Minimum is 1, maximum is 200, and the default is 25.		34.0
q	String	Search terms. Wild cards are not supported.		34.0
sort	String	Sort order of the results. Values are: <ul style="list-style-type: none">• LastModified• Mru: Most recently used (last viewed date)• Name		34.0

Response body for GET[Lens Collection](#)**Example response body**

```
{
  "lenses" : [ "/* Lenses detail omitted for brevity. */" ],
  "nextPageUrl" : null,
  "totalSize" : 14,
  "url" : "/services/data/v34.0/wave/lenses"
}
```

Request body for POST[Lens Input](#)**Request parameters for POST**

Parameter Name	Type	Description	Required or Optional	Available Version
lens	Object			34.0

Response body for POST[Lens](#)

Lens Resource

Returns the Analytics Cloud lens with the specified ID (GET), or deletes a lens (DELETE).

Resource

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

Available version

34.0

HTTP methods

GET and DELETE

Response body for GET[Lens](#)**Example response body**

```
{
  "allowPreview" : true,
  "assetSharingUrl" : "https://na1-blitz01.soma.salesforce.com/
    analytics/wave/lens?assetId=0FKD00000004CVjOAM&orgId=00DD00000007dBq&loginHost=
    na1-blitz01.soma.salesforce.com&urlType=sharing",
  "createdBy" : {
    "id" : "005D000000018LSoIAM",
    "name" : "User Name",
    "profilePhotoUrl" : "https://c.na1-blitz01.content.soma.force.com/profilephoto/005/T"
  },
  "createdDate" : "2015-02-06T17:40:28.000Z",
}
```

```

"dataset" : {
  "id" : "0FbD000000000ExKAI",
  "url" : "/services/data/v34.0/wave/datasets/0FbD000000000ExKAI"
},
"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" : "005D000000018LSOIAM",
  "name" : "User Name",
  "profilePhotoUrl" : "https://c.na1-blitz01.content.soma.force.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" : {
  "query" : {
    "query" :
    "{&quot;values&quot;:[&quot;Name&quot;,&quot;CommunityNickname&quot;,&quot;Alias&quot;]}",

    "saqlVersion" : -1.0
  }
},
"type" : "lens",
"url" : "/services/data/v34.0/wave/lenses/0FKD00000004CVjOAM",
"visualizationType" : "valuestable"
}

```

File Resource

Provides access to the files that make up a dataset.

Resource

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

Available version

34.0

HTTP methods

GET

Response body for GET

TBD

Wave REST API Request Bodies (Pilot)

The Wave REST API provides input data representations that enable you to include information with certain REST requests.



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An Analytics Cloud query written in SAQL.

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Information necessary to create a lens.

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State of the lens.

[Lens Visualization Options Input](#)

Description of visualization information for a lens.

Dataset Version Input

Input data for Analytics Cloud dataset version.

JSON example

TBD

Properties

Name	Type	Description	Required or Optional	Available Version
<code>isComplete</code>	Boolean	Indicates whether the dataset version is complete		34.0
<code>predicate</code>	String	The row level security predicate to be applied to this dataset version.		34.0
<code>totalRows</code>	Integer	The total number of rows that make up the dataset version.		34.0

Saql Query Input

An Analytics Cloud query written in SAQL.

JSON example

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

Properties

Name	Type	Description	Required or Optional	Available Version
query	String	The SAQL query.		34.0

Lens Input

Information necessary to create a lens.

JSON example

```
{
  "datasetId": "0Fbxx0000000006CAA/0Fcxx000000001dCAA",
  "folderId": "0Fbxx0000000006CAA/0Fcxx000000001dCAA",
  "state": "state",
  "visualizationType": "visualizationType"
}
```

Properties

Name	Type	Description	Required or Optional	Available Version
datasetId	ID	The ID of the dataset to be used to create this lens.		34.0
folderId	ID	ID of the folder in which this lens will be stored.		34.0
state	Lens State Input	The state of the lens.		34.0
visualizationType	String	The visualization type to be used for this lens. Values are: <ul style="list-style-type: none"> CalendarHeatMap ComparisonTable HeatMap HorizontalBar HorizontalDot Matrix ParallelCoordinates Pie Chart PivotTable Scatter 		34.0

Name	Type	Description	Required or Optional	Available Version
		<ul style="list-style-type: none"> StackedHorizontalBar StackedVerticalBar Time ValuesTable VerticalBar VerticalDot 		

Lens State Input

State of the lens.

JSON example

Properties

Name	Type	Description	Required or Optional	Available Version
options	Lens Visualization Options Input	The configuration options for different lens visualizations.		34.0

Lens Visualization Options Input

Description of visualization information for a lens.

JSON example

Properties

Name	Type	Description	Required or Optional	Available Version
fit	Boolean	Indicates whether to scale the position and size of data shape so that it's proportional to its percentage of its category.		34.0
hideHeaderColumn	Boolean	Indicates whether to display a header column.		34.0
legend	Boolean	Indicates whether to show a legend.		34.0
legendHideHeader	Boolean	Indicates whether to hide the legend header.		34.0
legendWidth	Integer	The width of the legend		34.0

Name	Type	Description	Required or Optional	Available Version
maxColumnWidth	Integer	The maximum width of the header column.		34.0
minColumnWidth	Integer	The minimum width of the header column.		34.0
miniBars	Integer	The width of the mini-bars, if used.		34.0
multiMetrics	Boolean	When true, indicates that multiple measures are displayed on the same chart, side-by-side. When false, each measure is displayed on a separate chart. The default is false.		34.0
normalize	Boolean	Scale the position and size of the data shape so that it's proportional to its percentage of its category.		34.0
splitAxis	Boolean	When true, each measure is projected onto one axis. When false, all measures share the same axis.		34.0
sqrt	Boolean	Indicates that the horizontal and vertical axes use a square root scale.		34.0
totals	Boolean	Indicates whether to display totals in the table.		34.0
trellis	Boolean	When true, the last group is treated as a trellis dimension. Every distinct value of the dimension is a chart.		34.0

Wave REST API Response Bodies (Pilot)

The Wave REST API provides output data representations that contain the results of REST requests.



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A string of JSON content.

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A collection of Analytics Cloud lenses.

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Information about the files used to generate the lens.

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The state of the lens.

[Lens Visualization Options](#)

The valid configuration options for a lens visualization.

Wave Directory

URLs for the top-level resources available for Analytics Cloud.

Property	Type	Description	Filter Group and Version	Available Version
<code>datasets</code>	String	The URL to the datasets resource for the organization.	Small, 34.0	34.0
<code>lenses</code>	String	The URL to the lenses resource for the organization.	Small, 34.0	34.0
<code>query</code>	String	The URL to the query resource for the organization.	Small, 34.0	34.0

UI Configuration

UI configuration data.

Property Name	Type	Description	Filter Group and Version	Available Version
maxGroups	Integer	The maximum number of groups.	Small, 34.0	34.0
maxMeasures	Integer	The maximum number of measures.	Small, 34.0	34.0

Dataset Collection

A collection of Analytics Cloud datasets.

Property Name	Type	Description	Filter Group and Version	Available Version
datasets	Dataset[]	List of datasets available to the current user.	Small, 34.0	34.0
nextPageUrl	String	The URL to retrieve the next page of contents in the collection.	Small, 34.0	34.0
totalSize	Integer	The total count of the elements in the collection, including all pages.	Medium, 34.0	34.0
url	String	The URL to retrieve the collection.	Small, 34.0	34.0

Dataset

An Analytics Cloud dataset.

Property Name	Type	Description	Filter Group and Version	Available Version
createdBy	Wave User	The creator of the dataset.	Small, 33.0	33.0
createdDate	Date	The time at which the dataset was created.	Small, 33.0	33.0
currentVersionCreatedBy	Wave User	The creator of the current version of the dataset.	Supplemental, 34.0	34.0
currentVersionCreatedDate	Date	The time at which the current version of the dataset was created.	Supplemental, 34.0	34.0
currentVersionId	String	The 18-character ID of the current dataset version.	Small, 34.0	34.0
currentVersionLastModifiedBy	Wave User	The user that last updated the current version of the dataset.	Supplemental, 34.0	34.0
currentVersionLastModifiedDate	Date	The last time the current version of the dataset was modified	Supplemental, 34.0	34.0
currentVersionUrl	String	The URL for the current dataset version.	Small, 34.0	34.0

Property Name	Type	Description	Filter Group and Version	Available Version
folderId	String	The 18-character ID of the folder that contains the dataset.	Small, 34.0	34.0
id	String	The 18-character dataset ID.	Small, 33.0	33.0
label	String	The label of the dataset.	Small, 33.0	33.0
lastAccessedDate	Date	The last time the dataset was accessed.	Small, 33.0	33.0
lastModifiedBy	Wave User	The user that last updated the dataset.	Small, 34.0	34.0
lastModifiedDate	Date	The last time the dataset was modified	Small, 33.0	33.0
name	String	The name of the dataset.	Small, 33.0	33.0
permissions	Permissions	The permissions for the current user.	Small, 33.0	33.0
type	String	The asset type. Values are: <ul style="list-style-type: none"> • Dashboard • Dataset • DatasetVersion • Folder • Lens 	Small, 33.0	33.0
url	String	The URL to the resource for the dataset.	Small, 33.0	33.0

Wave User

Information about a user.

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The 18-character user ID.	Small, 33.0	33.0
name	String	The name of the user.	Small, 33.0	33.0
profilePhotoUrl	String	The Chatter profile photo of the user.	Small, 33.0	33.0

Permissions

The permissions of a user on an asset.

Property Name	Type	Description	Filter Group and Version	Available Version
manage	Boolean	Indicates whether a user can manage access control on an asset.	Small, 33.0	33.0
modify	Boolean	Indicates whether a user can modify an asset.	Small, 33.0	33.0
view	Boolean	Indicates whether a user can view an asset.	Small, 33.0	33.0

Dataset Version

An instantiated version of an Analytics Cloud dataset.

Property Name	Type	Description	Filter Group and Version	Available Version
dataset	Dataset Reference	A reference to the dataset.	Small, 34.0	34.0
files	Dataset File[]	Information about the data files that make up the dataset version.	Medium, 34.0	34.0
filesUrl	String	The URL of the files resource for this dataset version.	Small, 34.0	34.0
predicate	String	The row-level security predicate.	Small, 34.0	34.0
predicateVersion	Double	The version of the row-level security predicate.	Small, 34.0	34.0

Dataset File

A reference to a data file that contains a dataset.

Property Name	Type	Description	Filter Group and Version	Available Version
fileName	String	The name of the data file.	Small, 34.0	34.0
url	String	The URL to retrieve the data file.	Small, 34.0	34.0

Dataset Reference

The alias, ID, and URL of a dataset.

Property Name	Type	Description	Filter Group and Version	Available Version
alias	String	The alias of the dataset.	Small, 34.0	34.0

Property Name	Type	Description	Filter Group and Version	Available Version
id	String	The 18-character ID of the dataset.	Small, 34.0	34.0
url	String	The URL of the dataset.	Small, 34.0	34.0

Literal LSON

A string of JSON content.

Property Name	Type	Description	Filter Group and Version	Available Version
json	String	The JSON content.	Small, 34.0	34.0

Lens Collection

A collection of Analytics Cloud lenses.

Property Name	Type	Description	Filter Group and Version	Available Version
lenses	Lens[]	List of lenses available to the current user.	Small, 34.0	34.0
nextPageUrl	String	The URL to retrieve the next page of contents in the collection.	Small, 34.0	34.0
totalSize	Integer	The total count of the elements in the collection, including all pages.	Medium, 34.0	34.0
url	String	The URL to retrieve the collection.	Small, 34.0	34.0

Lens

An Analytics Cloud lens.

Property Name	Type	Description	Filter Group and Version	Available Version
allowPreview	Boolean	Indicates whether the user is allowed to preview the lens.	Small, 34.0	34.0
assetSharingUrl	String	The sharing URL for the lens.	Small, 33.0	33.0
createdBy	Wave User	The creator of the lens.	Small, 33.0	33.0
createdDate	Date	The time at which the lens was created.	Small, 33.0	33.0
dataset	Dataset Reference	A reference to the dataset that this lens uses.	Small, 34.0	34.0
files	Lens File[]	A list of the lens files.	Medium, 34.0	34.0

Property Name	Type	Description	Filter Group and Version	Available Version
folderId	String	The ID of the folder in which this lens is stored.	Small, 34.0	34.0
id	String	The 18-character lens ID.	Small, 33.0	33.0
label	String	The label of the lens.	Small, 33.0	33.0
lastAccessedDate	Date	The last time the lens was accessed.	Small, 33.0	33.0
lastModifiedBy	Wave User	The user that last updated the lens.	Small, 33.0	33.0
lastModifiedDate	Date	The last time the lens was modified	Small, 33.0	33.0
name	String	The name of the lens.	Small, 33.0	33.0
permissions	Permissions	The permissions for the current user.	Small, 33.0	33.0
refreshDate	Date	The date of the most recent current dataset that is used by the lens.	Small, 34.0	34.0
state	Lens State	The state of the lens.	Big, 34.0	34.0
type	String	The asset type. Values are: <ul style="list-style-type: none"> • Dashboard • Dataset • DatasetVersion • Folder • Lens 	Small, 33.0	33.0
url	String	The URL to the resource for the lens.	Small, 33.0	33.0
visualizationType	String	The visualization type used for this lens. Values are: <ul style="list-style-type: none"> • CalendarHeatMap • ComparisonTable • HeatMap • HorizontalBar • HorizontalDot • Matrix • ParallelCoordinates • Pie Chart • PivotTable • Scatter • StackedHorizontalBar • StackedVerticalBar • Time 	Small, 34.0	34.0

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

Lens File

Information about the files used to generate the lens.

Property Name	Type	Description	Filter Group and Version	Available Version
contentType	String	The content type of the file.	Small, 34.0	34.0
fileLength	Integer	The length of the file in KB.	Small, 34.0	34.0
fileName	String	The name of the file.	Small, 34.0	34.0
id	String	The 18-character lens file ID.	Small, 34.0	34.0
lastModifiedDate	Date	The last modified date of the file.	Small, 34.0	34.0
url	String	The URL of the file.	Small, 34.0	34.0

Lens State

The state of the lens.

Property Name	Type	Description	Filter Group and Version	Available Version
options	Lens Visualization Options	The configuration options for different lens visualizations.	Small, 34.0	34.0

Lens Visualization Options

The valid configuration options for a lens visualization.

Property Name	Type	Description	Filter Group and Version	Available Version
?				