



Adobe® Marketing Cloud
data_warehouse_api

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Data Warehouse API

Data Warehouse API enables you to request Data Warehouse reports.

January 16, 2014

The following data warehouse reports were updated to match the logic used by marketing reports & analytics and ad hoc analysis:

- Referrers
- Referring domains
- Referrer type
- Search Engines - All
- Search Keywords - All

To use these new breakdowns in API requests, you must update the element name in the request according to the following list:

Breakdown	Element name
Search keywords-Paid	search_engine_keywords_paid
Search keywords-Natural	search_engine_keywords_natural
Search keywords-Natural	search_engine_keywords_v2
Search engines-Paid	search_engine_paid
Search engines-Natural	search_engine_natural
Search engines-All	search_engine_v2
Referring domains	referrer_domain_v3
Referrers	referrer_domain_v3
Referrer type	ref_type_v2

Overview

Data Warehouse enables you to request reports that display advanced data relationships from raw data based on your unique questions. For example, you can use Data Warehouse to report the exit pages for visitors who purchased a certain item on your site.

Data Warehouse reports are sent via email or FTP, and can take 72 hours or longer to process, depending on the complexity of the query and the amount of data requested.



Note: Adobe does not offer Service Level Agreements (SLA) or make any service level representations with regards to Data Warehouse segments.

Methods

The Data Warehouse API includes these methods.

Create SOAP and REST method calls using the method name and parameter names described here. For more information about using Web Services with SOAP and REST, see [Getting Started](#).

CancelRequest

Cancels a previously requested Data Warehouse segment.

DataWarehouse.CancelRequest Parameters

Parameter	Type	Description
Request_Id	xsd:int	The Data Warehouse Request ID to cancel.

DataWarehouse.CancelRequest Response

Type	Description
xsd:string	Confirms cancellation of the data warehouse segment request.

CheckRequest

Submits a one-time report request to be delivered through e-mail or FTP.

DataWarehouse.CheckRequest Parameters

Parameter	Type	Description
Request_Id	xsd:int	The Data Warehouse Request ID for which a status should be returned. You can only check the status of a request that you submitted.

DataWarehouse.CheckRequest Response

Type	Description
tns:data_warehouse_request	A structure that contains information about the specified data segment. If the specified Request_Id does not contain any data, the method returns the following response: Empty data set. No data for Request ID <Request_Id>.

CreateSegment

Create a segment definition that determines the report suite data that Data Warehouse includes in the new Data Warehouse segment.

DataWarehouse.CreateSegment Parameters

Parameter	Type	Description
rsid	xsd:int	The report suite used to generate the segment.

Parameter	Type	Description
segment	tns:data_warehouse_segment	The segment definition used to define the new segment.
report_suite_wide	xsd:boolean	When set to "true", the segment is created at the report-suite level instead of at the level of the currently authenticated user. This enables the segment for any user in the report suite.

DataWarehouse.CreateSegment Response

Type	Description
xsd:int	A unique segment ID for the new segment. If the segment creation fails, the SOAP framework returns an environment fault that describes the error.

GetReportData

Instructs Data Warehouse to retrieve a segment file previously created by a [DataWarehouse.Request](#) call using the `send_via_api` parameter.

DataWarehouse.GetReportData Parameters

Parameter	Type	Description
Request_Id	xsd:int	The request identifier returned by the DataWarehouse.Request call.
rsid	xsd:string	The report suite associated with the Data Warehouse request.
start_row	xsd:int	This parameter is currently unused. Specify a value of either 0 or 1.

DataWarehouse.GetReportData Response

Type	Description
tns:data_warehouse_report	A table containing the specified DataWarehouse.Request call.

GetSegment

Create a segment filter that determines the report suite data that Data Warehouse includes in its data file response to a Data Warehouse request.

DataWarehouse.GetSegment Parameters

Parameter	Type	Description
rsid	xsd:int	The report suite used to generate the segment.

Parameter	Type	Description
segment	xsd:int	The segment ID. Data Warehouse generates this value after creating a new segment.

DataWarehouse.GetSegment Response

Type	Description
tns:data_warehouse_segment	A structure containing the Data Warehouse segment data.

GetSegments

Retrieves a Data Warehouse segments for the specified date range.

DataWarehouse.GetSegments Parameters

Parameter	Type	Description
rsid	xsd:int	The report suite ID where you want to generate a Data Warehouse segment.
start_date	xsd:date	The start date for the Data Warehouse segment.
end_date	xsd:date	The end date for the Data Warehouse segment.

DataWarehouse.GetSegments Response

Type	Description
tns:segment_folders	A list of segments for the specified date range.

IsEnabled

Check if a given report suite has data warehouse enabled.

DataWarehouse.IsEnabled Parameters

Parameter	Type	Description
rsid	xsd:string	ID of the report suite to check.

DataWarehouse.IsEnabled Response

Type	Description
xsd:boolean	true if enabled, false if not enabled.

ReplaceSegment

Deletes the specified Data Warehouse segment and creates a new Data Warehouse segment of the specified structure.

DataWarehouse.ReplaceSegment Parameters

Parameter	Type	Description
id	xsd:int	The ID of the segment to delete. Data Warehouse provides this value in the response to a create segment operation.
rsid	xsd:int	The report suite used to create the new segment.
segment	tns:data_warehouse_segment	The segment definition used to define the data set in the new segment.

DataWarehouse.ReplaceSegment Response

Type	Description
xsd:int	A unique segment identifier for the new segment. If the segment creation fails, the SOAP framework returns an environment fault that describes the error.

Request

Submits a one-time report request to be delivered through e-mail or FTP.

DataWarehouse.Request Parameters

Parameter	Type	Description
rsid	xsd:string	The ID of the report suite to use with the Data Warehouse request. The report suite must have Data Warehouse enabled, and you must have rights to this report suite.
Contact_Name	xsd:string	The name of the person making the Data Warehouse request.
Contact_Phone	xsd:string	The phone number of the person making the Data Warehouse request.
Email_To	xsd:string*	The email address where you want Data Warehouse to send the data file. email is the default delivery mechanism, but you can also use FTP, if desired.
Email_Subject	xsd:string	The text that Data Warehouse puts in the subject line of the email.

Parameter	Type	Description
Report_Name	xsd:string	The Data Warehouse request name as you want it to appear in the email.
Report_Description	xsd:string	(Optional) A description of the Data Warehouse request as you want it to appear in the email.
File_Name	xsd:string	(Optional) The name of the data file that contains the results of the Data Warehouse request. For example, specify <code>DW_Data</code> to return a data file named <code>DW_Data.csv</code> .
Date_Type	xsd:string	The type of date range used with the Data Warehouse request. Supported values include: range: Specifies that you want to use a custom date range. To do this, specify the report's start date using the <code>Date_From</code> parameter, and the end using the <code>Date_To</code> parameter. preset: Specifies that you want to use a predefined date range. To do this, specify the report's preset date using the <code>Date_Preset</code> parameter.
Date_Preset	xsd:string	(Optional) The predefined date range to use with the Data Warehouse request. Specify this parameter when <code>Date_Type = preset</code> . Supported values include the following (values are case-sensitive): <code>Last month</code> , <code>Last week</code> , <code>Last 2 weeks</code> , <code>Last 4 weeks</code> , <code>Last 7 days</code> , <code>Last 30 days</code> , <code>This month</code> , <code>This week</code> , <code>Today</code> , <code>Yesterday</code> .
Date_To	xsd:string	(Optional) The end date of the custom date range for the Data Warehouse request. Specify this parameter when <code>Date_Type = range</code> . Date values must use the format <code>MM/DD/YY</code> .
Date_From	xsd:string	(Optional) The start date of the custom date range for the Data Warehouse request. Specify this parameter when <code>Date_Type = range</code> . Date values must use the format <code>MM/DD/YY</code> .
Date_Granularity	xsd:string	The granularity of the Data Warehouse request. Supported values include the following: <code>none</code> , <code>hour</code> , <code>day</code> , <code>week</code> , <code>month</code> , <code>quarter</code> , <code>year</code> .

Parameter	Type	Description
Segment_Id	xsd:int	(Optional) The segment to use with this Data Warehouse request. This value must be a valid global segment ID. Use GetSegments to get a list of valid segment IDs.
Metric_List	array(xsd:string)	(Optional) The metrics to include in the Data Warehouse request. A valid request must contain at least one Metric or Breakdown. Use <code>ReportSuite.GetAvailableMetrics</code> to get a list of available metrics for a report suite.
Breakdown_List	array(xsd:string)	(Optional) The breakdowns to include in the Data Warehouse request. A valid request must contain at least one Metric or Breakdown. Use <code>ReportSuite.GetAvailableElements</code> to get a list of available breakdowns for a report suite.
FTP_Host	xsd:string	(Optional) The delivery location for the Data Warehouse segment. Supported values include: Leave Blank: Do not specify a value for this parameter to have Data Warehouse deliver the segment file by Email. Email is the default delivery mechanism. FTP Host Name: Specify an FTP host name to have Data Warehouse deliver the segment by FTP. send_via_api: Specify the value <code>send_via_api</code> to have Data Warehouse deliver the segment using its REST interface. In this case, when the segment completes CheckRequest provides the REST URL where you can download the segment.
FTP_Port	xsd:int	(Optional) The FTP port number.
FTP_Dir	xsd:string	(Optional) The FTP directory where Data Warehouse puts the data file (For example, <code>/reports/here</code>).
FTP_UserName	xsd:string	(Optional) User name used to login to the FTP server specified in <code>FTP_Host</code> .
FTP_Password	xsd:string	(Optional) Password that matches the FTP user specified in <code>FTP_UserName</code> .

DataWarehouse.Request Response

Type	Description
xsd:int	The Request ID assigned to this Data Warehouse request by Adobe servers.

VerifySegment

Validates the specified segment definition without creating a new Data Warehouse segment.

This is useful for checking segment syntax before creating the new segment in Data Warehouse.

DataWarehouse.VerifySegment Parameters

Parameter	Type	Description
segment	tns:data_warehouse_segment	The segment definition to verify.

DataWarehouse.VerifySegment Response

Type	Description
xsd:boolean	Returns <code>True</code> if the segment filter is syntactically valid. Otherwise, returns an environment fault at the first syntax error in the segment definition.

Data Types

The Data Warehouse API uses these custom data structures, including enumerated types.

A Data Type defines structure for organizing and containing a specific set of data. Data types can consist of two or more elements, each of which may be an array, enumeration, structure, or "primitive" element. Adobe defines data types using the following convention:

```
<namespace>:<type>
```

For example:

- `xsd:int` indicates that the data type is part of the `xsd` namespace (XML Schema Definition), and that the type is `int` (Integer). XML defines certain primitive (common) data types such as `int`, `string` or `date`. The [XML Schema Definition](#) describes all primitive data types.
- `code_items` indicates that the data type is part of the `tns` namespace (a private Adobe namespace), and that the custom data type is `code_items`. The `tns` namespace prefixes all Marketing Cloud's custom data types.

data_warehouse_report

Data structure that contains information about information about a Data Warehouse report.

Name	Type	Description
start_row	xsd:int	The first data row to include in the report. This value should always be 1.
end_row	xsd:int	The last data row to include in the report. This value should always equal the number of elements in <code>row_list</code> .

Name	Type	Description
headings	data_warehouse_report_headings	A list of column headings for this report.
row	data_warehouse_report_row_list	A list of data rows for this report.
finished	xsd:boolean	This element is not currently enabled, so it always returns True. Indicates that additional data is available (a paged report).

data_warehouse_report_headings

An array of `xsd:string`.

data_warehouse_report_row

An array of `xsd:string`.

data_warehouse_report_row_list

An array of [data_warehouse_report_row](#) .

data_warehouse_request

Data structure that contains configuration settings for a full-processing data source.

Name	Type	Description																
status	xsd:int	A code representing the status of the data segment. Supported status values include: <table border="1" data-bbox="716 1213 1471 1894"> <thead> <tr> <th>Code</th> <th>Message</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Waiting to Start (Request created; estimating processing needs)</td> </tr> <tr> <td>1</td> <td>In Progress</td> </tr> <tr> <td>2</td> <td>Completed</td> </tr> <tr> <td>3</td> <td>On Hold</td> </tr> <tr> <td>4</td> <td>Cancelled</td> </tr> <tr> <td>5</td> <td>Has Error</td> </tr> <tr> <td>6</td> <td>Waiting to Start (Server assigned; waiting for server to start processing)</td> </tr> </tbody> </table>	Code	Message	0	Waiting to Start (Request created; estimating processing needs)	1	In Progress	2	Completed	3	On Hold	4	Cancelled	5	Has Error	6	Waiting to Start (Server assigned; waiting for server to start processing)
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Name	Type	Description																												
		<table border="1"> <thead> <tr> <th data-bbox="717 205 888 258">Code</th> <th data-bbox="888 205 1469 258">Message</th> </tr> </thead> <tbody> <tr> <td data-bbox="717 258 888 338">7</td> <td data-bbox="888 258 1469 338">Too Big</td> </tr> <tr> <td data-bbox="717 338 888 457">8</td> <td data-bbox="888 338 1469 457">Waiting to Start (Estimation complete; waiting for an available server)</td> </tr> <tr> <td data-bbox="717 457 888 537">9</td> <td data-bbox="888 457 1469 537">Waiting for Data</td> </tr> <tr> <td data-bbox="717 537 888 617">10</td> <td data-bbox="888 537 1469 617">Waiting for Send</td> </tr> <tr> <td data-bbox="717 617 888 697">11</td> <td data-bbox="888 617 1469 697">Waiting for Verification</td> </tr> <tr> <td data-bbox="717 697 888 777">12</td> <td data-bbox="888 697 1469 777">Waiting to Send</td> </tr> <tr> <td data-bbox="717 777 888 856">13</td> <td data-bbox="888 777 1469 856">Sent to Product</td> </tr> <tr> <td data-bbox="717 856 888 936">14</td> <td data-bbox="888 856 1469 936">Sending</td> </tr> <tr> <td data-bbox="717 936 888 1016">15</td> <td data-bbox="888 936 1469 1016">Waiting to Continue (deprecated)</td> </tr> <tr> <td data-bbox="717 1016 888 1096">16</td> <td data-bbox="888 1016 1469 1096">Waiting to Continue (deprecated)</td> </tr> <tr> <td data-bbox="717 1096 888 1176">17</td> <td data-bbox="888 1096 1469 1176">Continuing</td> </tr> <tr> <td data-bbox="717 1176 888 1255">18</td> <td data-bbox="888 1176 1469 1255">Not Delivered</td> </tr> <tr> <td data-bbox="717 1255 888 1335">32</td> <td data-bbox="888 1255 1469 1335">In Transit</td> </tr> </tbody> </table>	Code	Message	7	Too Big	8	Waiting to Start (Estimation complete; waiting for an available server)	9	Waiting for Data	10	Waiting for Send	11	Waiting for Verification	12	Waiting to Send	13	Sent to Product	14	Sending	15	Waiting to Continue (deprecated)	16	Waiting to Continue (deprecated)	17	Continuing	18	Not Delivered	32	In Transit
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17	Continuing																													
18	Not Delivered																													
32	In Transit																													
message	xsd:string	A brief description of the status parameter. The message string is listed above next to the status code.																												
filesize	xsd:string	Populated only when <code>status = 2</code> . The size of the requested data segment, in MB.																												
data_url*	xsd:string	Populated only when <code>status = 2</code> . Contains the URL where you can download the completed data segment.																												

*Once a data segment is complete, the `data_url` value in an HTTP GET request to retrieve the data segment. When requesting a data segment through the `data_url`, you must provide your Marketing Cloud credentials just as you would when using any other Marketing Cloud API call. For more information about WSSE, see the <<Web Services Authentication>>.

The following code sample demonstrates using cURL* to generate the GET request from a Linux workstation:

```
curl "<Genesis REST URL>" -H "$(php <wsse.php> <username> <secret>)"
```

A successful REST request includes the following components:

Name	Description
data URL	The URL associated with a specific data segment (for example, <code>https://api.omniture.com/rest/?id=123456</code>).
username	Your Marketing Cloud username.
secret	Your Marketing Cloud secret (password).
wsse.php	<p>A script file that contains the WSSE authentication data for the Data Warehouse request. This file might look like the following:</p> <pre>#!/usr/local/bin/php <? date_default_timezone_set('America/Denver'); \$mode='header'; if (\$argv[1] == '-q') { \$mode='qs'; array_shift(\$argv); } \$username = \$argv[1]; \$secret = \$argv[2]; \$created = date('c'); \$nonce = md5(rand(), true); \$base64_nonce = base64_encode(\$nonce); \$password_digest = base64_encode(sha1(\$nonce.\$created.\$secret, true)); if (\$mode == 'header') { echo "X-WSSE: UsernameToken Username=\"\$username\", PasswordDigest=\"\$password_digest\", Nonce=\"\$base64_nonce\", Created=\"\$created\""; } else { echo http_build_query(array('auth_digest' => \$password_digest, 'auth_nonce' => \$base64_nonce, 'auth_created' => \$created, 'auth_username' => \$username,)); }</pre>

data_warehouse_segment

Data structure that contains configuration settings for a full-processing data source.

Name	Type	Description
name	xsd:string	<p>A descriptive name for the Data Warehouse segment.</p> <p>The name cannot exceed 255 characters.</p>

Name	Type	Description
group_include	data_warehouse_segment_group	Specifies data to explicitly include in the data file. While you must include the <code>group_include</code> element, you can leave it empty if you do not want to use an include rule.
group_exclude	data_warehouse_segment_group	Specifies data to explicitly exclude from the data file. While you must include the <code>group_exclude</code> element, you can leave it empty if you do not want to use an exclude rule.

data_warehouse_segment_group

A structure (called a Group) that contains rules, and information about combining those rules, for creating a segment definition.

Name	Type	Description
type	xsd:string	Specifies the segment type. Supported values, which are case-sensitive, include: ROOT: The top-level segment group. The top-level segment group must be ROOT. VISITOR: Container for Visitor calculations. VISIT: Container for Visit calculations. PAGE: Container for Page calculations. EVENT: Container for Events.
name	xsd:string	The segment group name. The top-level segment group name must be <code>Include</code> . Nested segment groups can be named with any descriptive string. The name cannot exceed 255 characters.
group_operator	xsd:string	Boolean operator used to combine groups in the <code>group_list</code> parameter. Supported values include: AND: Combine groups using a boolean AND. OR: Combine groups using a boolean OR.
rule_operator	xsd:string	Boolean operator used to combine rules in the <code>rule_list</code> parameter. Supported values include: AND: Combine groups using a boolean AND.

Name	Type	Description
		OR: Combine groups using a boolean OR.
rule_list	data_warehouse_segment_rule_list	<p>A list of rules contained by the Group object. The following restrictions apply to rule lists in segment groups:</p> <ul style="list-style-type: none"> • The rule list of a ROOT segment group cannot contain any rules. • The rule list of an EVENT segment group can contain exactly one EVENT-style rule. • The EVENT rule list can contain any number of non-EVENT-style rules.
group_list	data_warehouse_segment_group_list	<p>A list of segment groups contained by this Group. The following restrictions apply when nesting segment groups:</p> <ul style="list-style-type: none"> • A ROOT group is the topmost group object, and cannot have a parent. • An EVENT group cannot have a parent of type EVENT. • A VISIT group cannot have a parent of type PAGE, VISIT, or EVENT. • A VISITOR group cannot have a parent of type PAGE, VISIT, VISITOR, or EVENT. • A PAGE group cannot have a parent of type PAGE, or EVENT.

data_warehouse_segment_rule

A structure that defines a single segment rule.

Name	Type	Description
operator	xsd:string	<p>The boolean operator used for this rule. Supported values include the following. You can also leave <code>operator</code> blank.</p> <p>= (equals)</p> <p>!= (does not equal)</p> <p>> (greater than)</p> <p>< (less than)</p> <p>>= (greater than or equal)</p> <p><= (less than or equal)</p> <p>NOT CONTAINS (does not contain)</p> <p>CONTAINS ALL OF (contains all of)</p> <p>NOT CONTAINS ALL OF (does not contain all)</p> <p>CONTAINS ONE OF (contains one of)</p> <p>NOT CONTAINS ONE OF (does not contain any)</p>

Name	Type	Description																												
type	xsd:string	Property to use for the rule comparison. For example, column. The type cannot exceed 100 characters.																												
value	xsd:string	Value to use in the rule comparison. The value cannot exceed 255 characters.																												
event	xsd:int	<p>The ID of the Event you want to listen for. When creating an Event rule, you must follow the following conventions:</p> <ul style="list-style-type: none"> - When specifying event, all other values (operator, type, and value) must be blank (a string of 0 characters or a NULL value). - When not specifying an event, the event value must be blank (a string of 0 characters or a NULL value). - Event rules must be contained in a rule_list of a segment group of type EVENT. <p>The event parameter accepts the following supported values:</p> <table border="1"> <thead> <tr> <th>Event ID</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PURCHASE</td> </tr> <tr> <td>2</td> <td>PRODUCT_VIEW</td> </tr> <tr> <td>10</td> <td>SHOPPING_CART_OPEN</td> </tr> <tr> <td>11</td> <td>SHOPPING_CART</td> </tr> <tr> <td>12</td> <td>SHOPPING_CART_ADD</td> </tr> <tr> <td>13</td> <td>SHOPPING_CART_REMOVE</td> </tr> <tr> <td>14</td> <td>SHOPPING_CART_VIEW</td> </tr> <tr> <td>20</td> <td>Instance of Campaign</td> </tr> <tr> <td>100</td> <td>Instance of eVar1</td> </tr> <tr> <td>101</td> <td>Instance of eVar2</td> </tr> <tr> <td>102</td> <td>Instance of eVar3</td> </tr> <tr> <td>103</td> <td>Instance of eVar4</td> </tr> <tr> <td>104</td> <td>Instance of eVar5</td> </tr> </tbody> </table>	Event ID	Description	1	PURCHASE	2	PRODUCT_VIEW	10	SHOPPING_CART_OPEN	11	SHOPPING_CART	12	SHOPPING_CART_ADD	13	SHOPPING_CART_REMOVE	14	SHOPPING_CART_VIEW	20	Instance of Campaign	100	Instance of eVar1	101	Instance of eVar2	102	Instance of eVar3	103	Instance of eVar4	104	Instance of eVar5
Event ID	Description																													
1	PURCHASE																													
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101	Instance of eVar2																													
102	Instance of eVar3																													
103	Instance of eVar4																													
104	Instance of eVar5																													

Name	Type	Description	
		Event ID	Description
		105	Instance of eVar6
		106	Instance of eVar7
		107	Instance of eVar8
		108	Instance of eVar9
		109	Instance of eVar10
		110	Instance of eVar11
		111	Instance of eVar12

data_warehouse_segment_rule_list

An array of [data_warehouse_segment_rule](#) .

segment

Data structure that contains a single data segment.

Name	Type	Description
id	xsd:string	The unique segment identifier.
name	xsd:string	The segment name.
definition	xsd:string	The segment definition used to specify the data to include in this segment.

segments

An array of [segment](#) .

segment_folder

Data structure that contains information about a collection of data segments.

Name	Type	Description
namespace	xsd:string	The namespace associated with this segment folder.
folder_name	xsd:string	The segment folder name.
segments	<i>segments</i>	A list of segments associated with the segment folder.

segment_folders

An array of *segment_folder* .

Reference

Error Codes

Lists the error codes for DataWarehouse APIs.

Errors are returned in the following format:

```
{
  "errors":["error 1", "error 2", ..., "error n"]
}
```

Error responses with text surrounded by asterisks (ex: *rsid*) denotes a provided parameter by the same name is returned as part of the error message.

DataWarehouse.*

Message	Description
"Access denied for the selected report suite."	Nonexistent report suite or the user does not have proper permission to the value provided in "rsid"
"This report suite is not configured for access to Data Warehouse."	the report suite requested does not have access to Data Warehouse

DataWarehouse.GetSegments

Message	Description
"Report Suite ID required"	missing "rsid" parameter

DataWarehouse.GetSegment

Message	Description
"Report Suite ID required"	missing "rsid" parameter
"data warehouse segment id required"	missing "segment" parameter
"Name must be nonempty"	invalid "segment" parameter

DataWarehouse.CreateSegment

Message	Description
"Group type must be one of the following: ROOT,VISITOR,VISIT,PAGE,EVENT"	all objects in the "group_include", "group_exclude", and "group_list" array must have "type" defined as one of the listed values (case sensitive)
"Group type must be ROOT if there is no parent group!"	objects provided for "group_include" and "group_exclude" must have "type" set to "ROOT"
"Group operator must be one of the following: UNKNOWN,AND,OR"	value provided to "segment" -> "group_include" -> "group_operator" must be one of the listed values (case sensitive)
"Rule operator must be one of the following: AND,OR"	value provided to "segment" -> "group_include" -> "rule_operator" must be one of the listed values (case sensitive)
"Operator must be one of the following: =, !=, >, >=, <=, CONTAINS, NOT CONTAINS, CONTAINS ALL OF, NOT CONTAINS ALL OF, CONTAINS ONE OF, NOT CONTAINS ONE OF, IS NULL, IS NOT NULL, STARTS WITH, NOT STARTS WITH, ENDS WITH, NOT ENDS WITH"	value provided to "segment" -> "group_include" -> "rule_list" => "operator" must be one of the listed values (case sensitive)
"Must define group type", "Must define group name", "Must define group operator", "Must define rule operator", "Must define rule list entry", "Must define group list entry"	any object in the "group_include", "group_exclude", and "group_list" array must have all of the following parameters defined (even if they are empty): "type", "name", "group_operator", "rule_operator", "rule_list", "group_list"
"You must supply a rule operator", "You must supply a rule item", "You must supply a rule value", "You must supply a rule event"	any object in the "rule_list" array must have all of the following parameters defined (even if they are empty): "operator", "item", "value", "event"
"Inclusion group must be named \"Include\""	"segment" -> "group_include" -> "name" must be set to "Include"

Message	Description
"Exclusion group must be named \"Exclude\""	"segment" -> "group_exclude" -> "name" must be set to "Exclude"
"Groups of type ROOT cannot contain any rules."	an object in the "group_include", "group_exclude", or "group_list" array having "type" set to "ROOT" must have the "rule_list" set to an empty array
"Groups of type VISITOR cannot be children of any group typed (PAGE, VISIT, VISITOR, EVENT)."	an object in the "group_include", "group_exclude", or "group_list" array having "type" set to "VISITOR" must not be children of any of the stated group types.
"Groups of type EVENT must contain exactly one EVENT rule."	If an object in "group_list" has "type" set to EVENT, it must contain a rule with "event" set to 1
"Type of a group containing events must be event."	If an object in "rule_list" has "event" set to 1, the parent group must have "type" set to EVENT
"Specification of \"event\" and (\"operator\" or \"item\" or \"value\") are mutually exclusive!"	If an object in "rule_list" has "event" set to 1, the other parameters must not be set.

Sample Code

The Data Warehouse API includes these code samples.

The following code is for demonstration purposes only. Please use your own values, names, file locations, and so on, as you prepare code for your company.

Cancel Request

A sample `DataWarehouse.CancelRequest` method call and its associated response.

DataWarehouse.CancelRequest Request

```
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:omn="http://www.omniture.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <omn>DataWarehouse.CancelRequest
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
      <Request_Id xsi:type="xsd:int">69760</Request_Id>
    </omn>DataWarehouse.CancelRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

DataWarehouse.CancelRequest Response

```
<SOAP-ENV:Envelope SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/">
  <SOAP-ENV:Body>
    <ns1:DataWarehouse.CancelRequestResponse xmlns:ns1="http://www.omniture.com/">
      <return xsi:type="xsd:string">Request Cancelled</return>
    </ns1:DataWarehouse.CancelRequestResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

Check Request

A sample [DataWarehouse.CheckRequest](#) method call and its associated response.

DataWarehouse.CheckRequest Request

```

<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:omn="http://www.omniture.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <omn:DataWarehouse.CheckRequest
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
    <Request_Id xsi:type="xsd:int">669</Request_Id>
    </omn:DataWarehouse.CheckRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

DataWarehouse.CheckRequest Response

```

<SOAP-ENV:Envelope SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/">
  <SOAP-ENV:Body>
    <ns1:DataWarehouse.CheckRequestResponse xmlns:ns1="http://www.omniture.com/">
      <return xsi:type="xsd:string">Complete</return>
    </ns1:DataWarehouse.CheckRequestResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

Create Segment

A sample [DataWarehouse.CreateSegment](#) method call and its associated response.

DataWarehouse.CreateSegment Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:omn="http://www.omniture.com/"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:sopenc="sopenc">
  <soapenv:Header/>
  <soapenv:Body>
    <omn:DataWarehouse.CreateSegment
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
    <rsid xsi:type="xsd:string">my_report_suite</rsid>
    <segment xsi:type="omn:data_warehouse_segment">
      <!--You may enter the following 3 items in any order-->
      <name xsi:type="xsd:string">SOAP API Event Test Segment</name>
      <group_include xsi:type="omn:data_warehouse_segment_group">
        <!--You may enter the following 6 items in any order-->
        <type xsi:type="xsd:string">ROOT</type>

```

```

    <name xsi:type="xsd:string">Include</name>
    <group_operator xsi:type="xsd:string">UNKNOWN</group_operator>
    <rule_operator xsi:type="xsd:string">AND</rule_operator>
    <rule_list xsi:type="omn:data_warehouse_segment_rule_list"
soapenc:arrayType="omn:data_warehouse_segment_rule[]" />
    <group_list xsi:type="omn:data_warehouse_segment_group_list"
soapenc:arrayType="omn:data_warehouse_segment_group[]">
      <item xsi:type="mon:data_warehouse_segment_group">
        <type xsi:type="xsd:string">VISIT</type>
        <name xsi:type="xsd:string">Visit</name>
        <group_operator xsi:type="xsd:string">UNKNOWN</group_operator>
        <rule_operator xsi:type="xsd:string">AND</rule_operator>
        <group_list xsi:type="omn:data_warehouse_segment_group_list"
sopenc:arrayType="omn:data_warehouse_segment_group[]">
          <item xsi:type="omn:data_warehouse_segment_group">
            <type xsi:type="xsd:string">EVENT</type>
            <name xsi:type="xsd:string">Checkout</name>
            <group_operator xsi:type="xsd:string">UNKNOWN</group_operator>
            <rule_operator xsi:type="xsd:string">AND</rule_operator>
            <rule_list xsi:type="omn:data_warehouse_segment_rule_list"
soapenc:arrayType="omn:data_warehouse_segment_rule[]">
              <item xsi:type="tns:data_warehouse_segment_rule">
                <operator xsi:type="xsd:string" />
                <item xsi:type="xsd:string" />
                <value xsi:type="xsd:string" />
                <event xsi:type="xsd:int">11</event>
              </item>
            </rule_list>
          <group_list xsi:type="omn:data_warehouse_segment_group_list"
soapenc:arrayType="omn:data_warehouse_segment_group[]" />
          </item>
        </group_list>
        <rule_list xsi:type="omn:data_warehouse_segment_rule_list"
soapenc:arrayType="omn:data_warehouse_segment_rule[]" />
        </item>
      </group_list>
    </group_include>
    <group_exclude xsi:type="omn:data_warehouse_segment_group">
      <!--You may enter the following 6 items in any order-->
      <type xsi:type="xsd:string">ROOT</type>
      <name xsi:type="xsd:string">Exclude</name>
      <group_operator xsi:type="xsd:string">UNKNOWN</group_operator>
      <rule_operator xsi:type="xsd:string">AND</rule_operator>
      <rule_list xsi:type="omn:data_warehouse_segment_rule_list"
soapenc:arrayType="omn:data_warehouse_segment_rule[]" />
      <group_list xsi:type="omn:data_warehouse_segment_group_list"
soapenc:arrayType="omn:data_warehouse_segment_group[]" />
      </group_exclude>
    </segment>
  </omn:DataWarehouse.CreateSegment>
</soapenv:Body>
</soapenv:Envelope>

```

Request

A sample [DataWarehouse.Request](#) method call and its associated response.

DataWarehouse.Request Request

```

<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:omn="http://www.omniture.com/"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/">
  <soapenv:Header />
  <soapenv:Body>
    <omn:DataWarehouse.Request soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">

```

```

    <Breakdown_List xsi:type="omn:string_array" soapenc:arrayType="xsd:string[]">
      <item xsi:type="xsd:string">browser_height</item>
    </Breakdown_List><Contact_Name xsi:type="xsd:string">John Jones</Contact_Name>
    <Contact_Phone xsi:type="xsd:string">801-888-8888</Contact_Phone>
    <Contact_Name xsi:type="xsd:string">John Jones</Contact_Name>
    <Contact_Phone xsi:type="xsd:string">801-000-0000</Contact_Phone>
    <Date_Granularity xsi:type="xsd:string">none</Date_Granularity>
    <Date_Preset xsi:type="xsd:string">Yesterday</Date_Preset>
    <Date_Type xsi:type="xsd:string">preset</Date_Type>
    <Email_Subject xsi:type="xsd:string">Periodic Revenue</Email_Subject>
    <Email_To xsi:type="xsd:string">jjones@somecompany.com</Email_To>
    <File_Name>xsi:type="xsd:string">Report</File_Name>
    <Metric_List xsi:type="omn:string_array" soapenc:arrayType="xsd:string[2]">
      <item xsi:type="xsd:string">revenue</item>
      <item xsi:type="xsd:string">page_views</item>
    </Metric_List>
    <Report_Description xsi:type="xsd:string">My API Request</Report_Description>
    <Report_Name xsi:type="xsd:string">Periodic Revenue</Report_Name>
    <Segment_Id xsi:type="xsd:int">729</Segment_Id>
    <rsid xsi:type="xsd:string">reportSuite00000</rsid>
  </omn:DataWarehouse.Request>
</soapenv:Body>
</soapenv:Envelope>

```

DataWarehouse.Request Response

```

<SOAP-ENV:Envelope SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/">
  <SOAP-ENV:Body>
    <ns1:DataWarehouse.RequestResponse xmlns:ns1="http://www.omniture.com/">
      <Request_Id xsi:type="xsd:int">669</Request_Id>
    </ns1:DataWarehouse.RequestResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```