

# 14.0 Consolidation APIs

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## 14.0 Consolidation APIs

### 14.1 Query Consolidations

Retrieve consolidations by query. There are two kinds of queries supported:

1. Retrieve a single consolidation. Retrieves exactly one consolidation wrapped XML <consolidation> element
2. Retrieve one or more consolidations . Retrieves 1..n consolidation objects wrapped by an XML <consolidations> collection

#### 14.1.1 Method: GET Consolidations

[GET /api/consolidations?query=\(query criteria see below\)](#)

#### 14.1.2 Method: GET a single Consolidation by unique consolidation name

[GET /api/consolidations/{consolidationName}](#)

#### 14.1.3 HTTP Query and Path Parameters

Field	Type	Description	Required
query	Query	An encoded query string (where clause)	no **
first	Query	Paging. First record to start from	no
count	Query	Paging. Number of records to include when paging	no
consolidationName	Path	the unique name of the consolidation criteria	no **
depth	Query	The depth of the response data. Either 'shallow' or 'deep'. Defaults to shallow	no

Note: \*\*If neither a consolidationName path parameter or query query parameter is not provided, all consolidations will be retrieved.

#### 14.1.4 HTTP Headers

Header	Valid Values	Required
Content-Type	application/xml or application/json	True
GWOS-API-TOKEN	a valid token returned from login	True
GWOS-APP-NAME	your application name	True

#### 14.1.5 Query Fields

Field	Description	Alias
id	Consolidation integer id	consolidationId
name	The consolidation primary unique name	
criteria	Semi-colon separated list of consolidation criteria	

Note: Query fields are case-insensitive, thus camelCase, or all lower case will both work fine.

\*\*\*The fields entity

#### 14.1.6 Example Queries

These examples are not HTTP encoded for readability. In practice queries must be encoded.

1. query for all consolidations  
[GET /api/consolidations](#)
2. query for all consolidations, order by name descending  
[GET /api/consolidations?query=order by name desc](#)
3. query for a single consolidation named 'SYSTEM'  
[GET /api/consolidations/SYSTEM](#)
4. a like query to find all consolidations in list  
[GET /api/consolidations?query=like 'SY%'](#)

### Example Query Results in XML

The normal results of a query will result in either HTTP 200 OK status or a HTTP 404 NOT FOUND status.

Results of requesting a single entity with a consolidation name in the path parameter is always wrapped with a single <consolidation> entity element. Here is an XML example of the result of a query finding one consolidation. All fields are displayed as attributes.

```
<consolidation id="4" name="SYSLOG"
  criteria="OperationStatus;Device;MonitorStatus;ipaddress;ErrorType;SubComponent" />
```

Result of queries are always wrapped in a <propertyTypes> collection element, with one or more <propertyType> subelements.

```
<consolidations>
  <consolidation id="2" name="NAGIOSEVENT"
    criteria="Device;MonitorStatus;OperationStatus;SubComponent;ErrorType" />
  <consolidation id="3" name="SNMPTRAP" criteria=
    "OperationStatus;Device;ipaddress;MonitorStatus;Event_OID_numeric;Event_Name;Category;Variable_Bindings"
  />
  <consolidation id="4" name="SYSLOG"
    criteria="OperationStatus;Device;MonitorStatus;ipaddress;ErrorType;SubComponent" />
  <consolidation id="1" name="SYSTEM"
    criteria="OperationStatus;Device;MonitorStatus;ApplicationType;TextMessage" />
</consolidations>
```

See [Appendix A](#) for examples of usage with Curl

See [Appendix B](#) and [Appendix C](#) for example query data in both XML and JSON:

Response Data - [XML](#) - [JSON](#)

## 14.2 Create or Update Consolidations

Persist a batch (1..n) of consolidations in foundation database. Consolidation records will be created if they do not exist. If a consolidation exists, it will be updated.

If one or more consolidation creation operations fails, others may still succeed. This is not an all-or-none transactional operation. The results of each individual Consolidation creation/update operation is returned back in the resultset described below with a status of success or failure.

### 14.2.1 Method: POST

[POST /api/consolidations](#)

### 14.2.2 HTTP Headers

Header	Valid Values	Required
Content-Type	application/xml or application/json	True
GWOS-API-TOKEN	a valid token returned from login	True
GWOS-APP-NAME y	our application name	True

### 14.2.3 Post Data Attributes and Elements

Field	Description	Required	Type
name	The unique consolidation name	Yes	Attribute
criteria	Semi-colon separated list of consolidation criteria	Yes	Attribute

### 14.2.4 XML POST Data Example

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<consolidations>
  <consolidation name='VEMA' criteria='MonitorStatus;ApplicationType' />
  <consolidation name='BMS' criteria='Device;ApplicationType' />
</consolidations>
```

More Post Data Examples: XML - JSON

### 14.2.5 HTTP Status Codes

- 200 - Zero or more consolidations were created without any internal server errors
- 500 - An internal server error occurred

### 14.2.6 Example Response

In this example, we use the POST data above. Two consolidations were successfully created. Note that the results collection also returns the location of the created or updated consolidation which can be directly used by the GET operation.

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<results successful="2" failed="0" entityType="Consolidation"
  operation="Update" warning="0" count="2">
  <result>
    <entity>VEMA</entity>
    <location>http://localhost/api/consolidations/VEMA</location>
  <status>success</status>
  </result>
  <result>
    <entity>BMS</entity>
    <location>http://localhost/api/consolidations/BMS</location>
  <status>success</status>
  </result>
</results>
```

## 14.3 Delete Consolidations

Deletes one or more consolidations from the Collage database.

### 14.3.1 Method: DELETE

[DELETE /api/consolidations/name1](#)

where *name1* is the name of the consolidation to delete

[DELETE /api/consolidations/name1,name2 ...](#)

A comma-separated list of two consolidation names (or more) are provided. Note that no-spaces are allowed in this HTTP path segment.

### 14.3.2 HTTP Headers

Header	Valid Values	Required
Content-Type	application/xml or application/json	True
GWOS-API-TOKEN	a valid token returned from login	True
GWOS-APP-NAME	your application name	True

### 14.3.3 HTTP Status Codes

- 200 - Consolidation records were deleted successfully
- 500 - An internal server error occurred

### 14.3.4 Example Response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<results successful="2" failed="0" entityType="Consolidation"
  operation="Delete" warning="0" count="2">
  <result>
    <entity>name1</entity>
    <message>Consolidation deleted</message>
    <status>success</status>
  </result>
  <result>
    <entity>name2</entity>
    <message>Consolidation deleted</message>
    <status>success</status>
  </result>
</results>
```