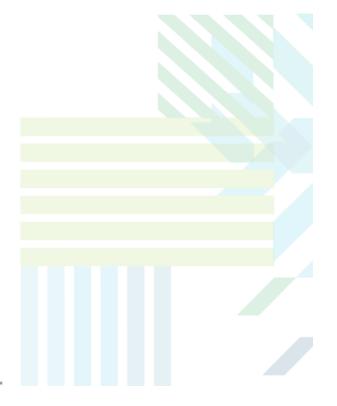




## Sopheon Accolade®

Accolade Data API Reference Guide

Version: 16.1



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## **About this Guide**

Welcome to the *Sopheon Accolade Data API Reference Guide*. The Data API area allows Accolade users to retrieve Accolade data for integration into the BI application of their choice.

This guide contains instructions for creating and managing Accolade Data API keys to access Accolade information, as well as design and data tables information for BI data scientists and developers.

This information presented in this guide is intended for use with the Accolade Web API v. 2.5, to be used in conjunction with Sopheon Accolade v.16.1.

**Note:** Your company may use other components of the Accolade Web API resources for other purposes in your business. This guide discusses only the information you need to access the Data API resources contained within the Accolade Web API. For additional information about the Accolade Web API, please contact Sopheon Customer Support or refer to the Web API topics in the Accolade application main Help.

## **Assumptions**

This guide assumes you are familiar with Accolade and with your company's BI application. For more information about Accolade, see the Accolade online Help available from within the main application.

### Font Conventions

 This bold font is used for important words and the names of the items you need to identify.

Create a SQL account named "Geneva", and give this account the VS\_Write database

• This fixed-width font is used for examples of code, paths, and URLS. https//:your-server-name:port-number/

- This italic font is used for document names.
- An italic font enclosed in brackets shows what information is displayed in this location when the information is changeable, rather than fixed.

Process Document - Smart Excel <version>.xlt

• Blue text indicates a cross-reference link that you can click to take you to that location.

### **Icon Conventions**



- Indicates a tip to assist with Accolade configuration or management.



- Indicates an example use case to assist with Accolade component configuration.

Important! This is an important statement. Read it carefully before proceeding with an action.

### **Related Documentation**

Sopheon Accolade Web API Reference Guide

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## **Chapter 1**

## Accolade Web API Overview

An application programming interface (API) is an interface that enables interaction with other software. APIs let programs share information and influence each others' behavior through a "request and response" method of conversation. This conversation is similar to a conversation between people, but with defined rules about the type of communication allowed. APIs can be used both to retrieve and update data.

### Accolade as a RESTful API

The Accolade Web API is a private RESTful web service, intended for use by company assets and by our customers. A RESTful API is based on representational state transfer (REST), an architectural style and approach to communications often used in web services development. A RESTful web application exposes information about itself in the form of information about its resources. It also enables the client to take actions on those resources, such as create new resources (i.e. create a new user) or change existing resources (i.e. edit a post).

Accolade's Web API conforms to the Richardson Maturity Model Level 2. It is implemented with ASP.Net Web API 2.2 with attribute routing, and follows OData v3 conventions. JSON is the media type that is supported for request and response payloads.

## Accolade API Versioning

Accolade v.16.1 currently supports Accolade Web API version 2.5. The Accolade Web API is semantic versioned, and the version number is independent from the Accolade version. The version number has the MAJOR.MINOR format and is incremented as follows:

- MAJOR version when there are incompatible API changes.
- MINOR version when functionality is added in a backwards-compatible manner.

### Accolade API Authentication and Access

Accolade has several areas within its API designed to retrieve the appropriate information based on the application. Before users can make requests, they need to have a method for authenticating the requests. The Accolade API has two methods for verifying requests:

- using authentication tokens to identify and verify the users.
- via a generated API key, which identifies the application making the API call.

Access to the Accolade Web API is available to any developer, and requests are authenticated via the user's Accolade credentials. The Web API areas can be used to create customized configuration solutions for users within your company, such as creating an advanced layout which uses functionality in a non-standard way, or retrieving the results of an Accolade online report for use in process configuration.

Access to the Accolade Data API requires the use of an API key, which can be created by users with the Data Analyst role and then shared with appropriate users within your organization. The Data API area can be used to retrieve project data and other data from the Accolade database, and display the Accolade information using your company's BI application.

## Chapter 2

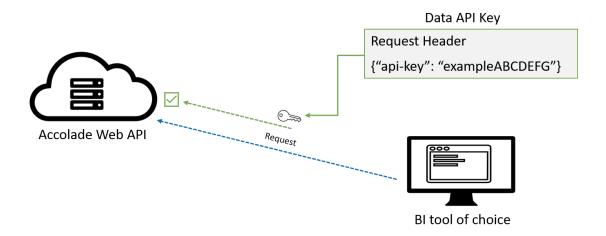
## API Authentication as an Application

The Accolade Data API area requires the use of generated API keys for use in retrieving project data and other data from the Accolade database, and displaying the Accolade information using your company's BI tool of choice. These API keys can be created within Accolade and then shared with appropriate users within your organization.

API keys are used to identify the application making the call, and are designed to serve two main purposes:

- Application identification to identify the application making the call to the API.
- Application authorization to help check whether the application making the call has
  access to call it. It also checks whether the API in this application is enabled.

**Note:** While API keys identify the calling project, they don't identify the calling user. For instance, if you have created an application that is calling an API, an API key can identify the application that is making the call but not the identity of the person who is using the application.



### Creating and Managing Accolade Data API Keys

Users with the Data Analyst role can create access keys that can be provided to developers for use to authenticate calls to the Accolade API when requesting Accolade information. API keys can be viewed and managed from the **System** menu, under **System > Data API**.

**Important!** Each API key is generated and revealed at the time of creation, and cannot be viewed a second time. If this key is lost or misplaced, you will need to delete the existing key and create a new one.

### To create an Accolade API key:

- 1. From the **System** menu, select **System > Data API**.
- 2. Click **Add New** in the upper right corner of the page
- 3. Complete the following information to identify the key:

Required fields display with **red** text and an asterisk \* if the field is empty.

Field	Description
Name	Enter a name, up to 64 characters long, which identifies the API key.
Description	Enter a description of the purpose or nature of the API key.

4. Click Create to generate a new API key.

After you click **Create** and generate the new API key, the key value is displayed. Click **Copy** to copy the key value a different location, as you will need it to access the Accolade Data API and will not be able to access it again once you exit the dialog.

5. Click **Done** to exit the dialog.

## RAPI Key Security Best Practices

API keys grant full access to your Accolade data, and should be protected the same way you would protect your password. In particular, there are a few common scenarios to keep in mind when working with API keys:

- Give each integration its own API key, and assign descriptions to each key so you know
  which key goes with which application. If a specific API key is compromised, you can
  disable that key without disabling access to all of your other integrations.
- Be careful not to expose the key to the public (such as in screenshots, videos, or help documentation). Remember that blurring your data isn't always enough. It's best to use "cut" functions in your graphics program to remove the data completely.
- If a key needs to be shared, generate a new key and label it accordingly so it can be
  disabled, if needed. Never email the API key, because it would allow access to your
  Accolade information if hackers were to compromise your email account.
- Do not embed, store, or expose your API key(s) within client-side code, including JavaScript, mobile applications, and native executables. A bad actor can decompile your application and obtain your API key(s).
- Delete unneeded API keys to minimize exposure to attacks.

### Notes:

• To delete an existing API key, click in the appropriate key row.

### **API Key Authentication Setup**

Access to the Accolade Data API is available via a generated API key that is generated within Accolade, and can be used by any *in-network* authorized developer. Once the key is generated, your company's BI analysts have two different options for authentication setup.

### **Option 1: API Key Authentication**

Analysts can use the API key directly to authenticate access to Accolade data. Using this method, each call to the API needs a Authorization header with API Key scheme to authenticate the application, as follows:

Request Example	Response
GET https:// <server>/api/v2/data/GetTimePeriodsData</server>	
Authorization: APIKey <api key="" name="">:<api key="" value=""></api></api>	

### Option 2: Bearer Authentication using an API key

Analysts can use the Bearer authentication method to authenticate access to Accolade data, to give additional security to calls being made by an application.

### To request an API key-based access token:

Request Example	Response
POST https:// <server>/Token</server>	200 OK
Content-Type: application/json	Content-Type: application/json; charset=utf-8
{     "grant_type": "client_credentials",     "client_id": " <api key="" name="">",     "client_secret": <api key="" value="">" }</api></api>	{     "access_token": " <token>",     "token_type": "Bearer",     "expires_in": "<seconds>",     "refresh_token": "<token>"</token></seconds></token>

The access token expires in expires\_in seconds. For refresh token, see the Refresh Tokens section below.

### **Refresh Tokens**

If refresh tokens is enabled, you can use a refresh token to get a new access token without supplying the API key again. The refresh token expires after 365 days.

Request Example	Response
POST https:// <server>/Token</server>	200 OK
Content-Type: application/json	Content-Type: application/json; charset=utf-8
{     "grant_type": "refresh_token",     "refresh_token": " <refresh token="">" }</refresh>	{   "access_token": " <token>",   "expires_in": "<seconds>",   "refresh_token": "<token>" }</token></seconds></token>

Note that the returned refresh token is a new token with a new expiration window.

### To call the API with the Access Token:

Using this method, each call to the API needs an Authorization header with Bearer scheme to authenticate the application, as follows:

Request Example	Response
GET https:// <server>/api/v2/data/GetTimePeriodsData</server>	
Authorization: Bearer <access token=""></access>	

### Notes:

- The content type for a Data API call can be either json or csv, depending on your use scenario.
- All API requests should be made over HTTPS. Calls made over plain HTTP could
  potentially expose information such as passwords or client secrets to other users within
  your network.
- The Accolade Web API technical documentation, which includes examples, can be accessed at <server name>/help/apihelp.
- In you are unfamiliar with working in APIs or require more technical support, contact Sopheon's Consulting group for more information on training opportunities or additional services.

## Appendix A

# Accolade Web API Developer References

This section contains developer information about the Accolade Web API resources.

### Accolade Web API Design

The Accolade API is a private RESTful web service, intended for use by company assets and by our customers. Accolade's API conforms to the Richardson Maturity Model Level 2. It is implemented with ASP.NET Web API 2.2 with attribute routing, and follows OData v3 conventions.

### Versioning

The Accolade Web API is semantic versioned, and the version number is independent from the Accolade version. The version number has the MAJOR.MINOR format and is incremented as follows:

- MAJOR version when there are incompatible API changes.
- MINOR version when functionality is added in a backwards-compatible manner.

Accolade v.16.1 currently supports Accolade Web API version 2.5.

### Restrictions and Rate Limits

The only restrictions to the Accolade API are via authentication and authorization as follows:

- User authentication verify that the API user making the call has the appropriate credentials.
- User authorization a check whether the API user making the call has permission to make this kind of request.

Important! The Accolade Web API is sensitive to the user roles and rights that are assigned within Accolade. When creating API calls that will be made on behalf of an Accolade user, be mindful that the user must have the appropriate Accolade system roles and rights to access the data or perform the action included in the call. For example, Team Members do not have the appropriate rights to create projects, therefore it would not make sense to assign a POST call that creates projects for this user to execute.

**Note:** Roles and rights are not applicable to calls made to the Accolade Data API that are authenticated via a generated API key. See "API Authentication as an Application" on page 11 for more information.

Rate limits determine how frequently you can call a particular endpoint. While Accolade's API does not currently impose any rate limits, be mindful that API usage may affect the performance of Accolade; you may wish to schedule large updates or requests outside of peak usage times.

### Resources

A resource is uniquely identified by its URI (or URL). Resources URIs must follow the following conventions:

- Resources are grouped in areas. Examples: core, administration, configuration.
- Resources are nouns that convey meaning. Examples: /api/v2/core/projects, /api/v2/configuration/processmodels.
- Resource names should be **pluralized**. Examples: /api/v2/core/projects, /api/v2/administration/users.
- A single resource is addressed with its **ID** in parenthesis after the resource name. Examples: /api/v2/core/projects(1), /api/v2/administration/users (42).
- Alternatively, a resource may be addressed with its name or system name in single quotes. Examples: /api/v2/core/projects('Project%201'), /api/v2/configuration/metrics('Costs').
- Resources represent **contained structure**. Structure is represented by **hierarchical resource paths**. Examples: /api/v2/core/projects(1)/metrics, /api/v2/core/projects(1)/metrics(111).
- Filters, sorting, etc. aren't resources thus should be in the query string of the URL. Example: /api/v2/core/projects?\$orderby=Name.

Resource IDs should be unique, static and remain the same over time.

### **Verbs**

The following verbs (HTTP Methods) are supported:

HTTP Method	Request Payload	Sample URI	Response Pay- load
GET	-	/api/v2/core/projects	Resource
		/api/v2/core/projects	collection
		({projectID})	Single
			resource
POST	Single resource	/api/v2/core/projects	Single
			resource
PUT	Single resource	/api/v2/core/projects	Single project
		({projectID})	
PATCH	Batch of partial	/api/v2/core/projects	Resource
	resources	/api/v2/core/projects	collection
	Partial resource	({projectID})	

HTTP Method	Request Payload	Sample URI	Response Pay- load
			Single resource
DELETE	-	/api/v2/core/projects ({projectID})	-



The difference between **PUT** and **PATCH** is that **PUT** will update the whole resource, so for not supplied properties their default values will be used. **PATCH** only updates supplied properties.

### **Status Codes**

Status Code	HTTP Methods	Comments
Level 200 - Success		
200 - OK	GET, PUT, PATCH	And POST for Actions.
201 - Created	POST	
204 - No content	DELETE	
Level 400 - Client Errors		
400 - Bad request	POST, PUT, PATCH	Invalid or corrupt request payload, the response body contains the error message.
401 - Unauthorized	All	No or invalid authentication details provided.
403 - Forbidden	All	Authenticated user doesn't have access to resource.
404 - Not found	GET, PUT, PATCH, DELETE	Resource not found.
405 - Method not allowed	All	HTTP method not allowed on resource.

Status Code	HTTP Methods	Comments	
406 - Not acceptable	All	Media type not supported (response payload).	
409 - Conflict	All	Caching or concurrency conflict (or resource already exists when trying to create it).	
415 - Unsupported media type	POST, PUT, PATCH	Media type not supported (request payload).	
Level 500 - Server Faults			
500 - Internal server error	All	Error will be logged in the Accolade log. No error message will be returned as this exposes implementation details.	

### **Payload**

Resource != Business Model != Entity Model

Resources are mapped to one or more entities or their subsets. For example, a metric can contain both project and process model related properties.

A entity can be represented by more than 1 resource, depending on their usages. For example, a metric can have a separate resource type for: process model, project, matrix, planning/roadmap, etc.

All resources will have standardized property names and standardized value types as follows:

- Enum values are represented as strings and not as their underlying numeric value.
- Dates as 'YYYY-MM-DD' strings.
- Timestamps as 'YYYY-MM-DDThh:mm:ss' strings.

Related resources will be represented with their **ID** and can be expanded (with the \$expand option) to full resource objects to reduce server round trips; for example, the team leader ID on a project can be expanded to a user resource.

Only JSON (media type: **application/json**) will be supported for request and response payloads. JSON literals will be in **camel-case**. Null values will be **omitted** from the payload to reduce network bandwidth.

### **Actions and Functions**

Besides resources, actions and functions can be exposed by the API; this should be used sparingly.

The difference between actions and functions is that **actions** can have **side effects**, and **functions** do **not**. Both actions and functions can return data.

Actions and function should be **named** like C# method names, in other words, the name should be a **verb phrase**. **Actions** should be invoked with a **POST** method, **functions** with a **GET** method.

Actions and functions can be global, for a resource collection or for a single resource.

### Examples:

```
api/v2/administration/users/SetPushSubscription
api/v2/core/ExecuteQuery(123)
api/v2/core/projects(42)/phases(1)/gate/keepers(5})/EnterVote
api/v2/core/projects(42)/MigrateProject(111)
```

### **OData**

A request returns a maximum of 50 items in a collection, for example api/v2/Projects returns 50. To avoid the limitation you can use the OData \$top token and set the results count to any number you need in the form:

```
api/v2/Projects?$top=100000
```

OData parameters are passed as a regular query string. For example http://domain.com/page?\$top=100&\$skip=10 will pass 2 parameters, \$top and \$skip. You can pass as many parameters as you like, separated with a &.

### Paging, Filtering, and Data Shaping

The following options are supported on resources collections (\$expand and \$select are also applicable on a single resource).

Option	Descrip- tion	Format
\$expand	Expands	\$expand is a comma-separated list of related resources to
	related entities	be included in line with the retrieved resources.
	inline.	Nested resources can be expressed using a slash ('/'), max depth is 10.
		Example:
		/api/v2/core/projects
		(42)?\$expand=Metrics,Phases/Stage/Deliverables
\$filter	Filters the	\$filter is a Boolean expression to filter a collection of resources.
	results, based on a	The expression specified with the filter is evaluated for each resource and when the expression evaluates to true, the resource is included in the result.
	Boolean conditio n.	All OData v3 operators and functions are supported; see http://www.odata.org/documentation/odata-version-3-0/url-conventions/, section '5.1.2. Filter System Query Option'.
		Example:
		/api/v2/core/projects?\$filter=Name+eq+'Ajax'
		Nested \$filter statements are not supported (\$expand=Metrics(\$filter=DataType+eq+'String'))
\$inlineco unt	Include the total count of matching entities in the respons e.	\$inlinecount with the value allpages returns the total number of resources in the (filtered) collection in the all-pages-count HTTP header.  Example:  /api/v2/core/projects?\$inlinecount=allpages
\$orderby	Sorts the results.	\$orderby is a comma-separated list of property order clauses for resources to be returned in either ascending order using asc or descending order using desc.
		If asc or desc not specified, then the resources will be ordered in ascending order.
		Example:
		/api/v2/core/projects?\$orderby=TeamLeader+asc,Name+desc
		Nested \$orderby statements are not supported

Option	Descrip- tion	Format
		(\$expand=Metrics(\$orderby=SystemName)).
\$select	Selects which propertie s to include	\$select is a comma-separated list of resource properties to be returned.  Nested resources can be expressed using a slash ('/'), max depth is 10.  Example:
in the respons e.	/api/v2/core/projects (42)?\$expand=Metrics&\$select=Name,Code,Metrics/SystemName	
\$skip	Skips the first in results.	\$skip is a number that defines the number of resources to be skipped and not included from a (filtered) collection.  Example:  /api/v2/core/projects?\$skip=10
\$top	Returns only the first in the results.	\$top is a number that defines the number of resources to be returned from a (filtered) collection.  If not supplied, all resources in collection are returned.  Example:  /api/v2/core/projects?\$top=5



As of Accolade v. 13.2, support has been added for some DTO's to allow for filtering by expanded properties. Example:

/api/v2/core/projects?\$expand=TeamLeader&\$filter=TeamLeader/Name +eq+%27FirstName%20LastName%27

### Notes:

If a resource or action returns tabular data, the format query string can be used to shape the tabular data: List, Table and Table with Headers:

- api/v2/core/ExecuteQuery
- api/v2/core/RunReport
- api/v2/core/projects/matrices
- api/v2/configuration/referencetables

### **Alternative Keys**

The APIv2 resource ID arguments can have 3 types of values:

• Int32: resource(123)

• String: resource("name")

• Enum: resource(Flag)

### Caching

Each response will define itself a cacheable or not using HTTP Caching (RFC 2616 and RFC 7234 standards). Caching is used to eliminate the number of requests (aka network-roundtrips; uses an expiration model) and to eliminate the need to send full responses (aka network bandwidth; uses a validation model).

The following cache types will be supported in the future:

- Client Cache (== Private Cache), lives on the client
- Gateway Cache (== Shared Cache), lives on the server
- Proxy Cache (== Shared Cache), lives on the network

The expiration model will be defined with the Cache-Control header. The validation model will be defined with the Last-Modified and ETag (strong and/or weak) headers. Only no-cache is supported for now.

### Notes:

api/v2/core/ExecuteQuery and api/v2/core/RunReport already support Last-Modified and ETag to avoid re-executing queries and reports when paging is used (\$top and \$skip).

### Concurrency

APIv2 will follow current Accolade practices with respect to concurrency: last save wins.

### Cross-Origin Resource Sharing (CORS)

JSONP support is dropped in APIv2. Only CORS will be supported. The existing Accolade CORS infrastructure will be used.

### Security

APIv2 follows all Accolade visibility, accessibility and manageability rules for resources and their underlying entities (role, access groups, security list, security profiles, team membership, etc.).

If APIv2 is called from within Accolade (i.e. Quick Grids), the user is already authenticated and the session and authentication cookies will be send with each request automatically.

If APIv2 is called from outside Accolade and Accolade is configured for Windows Integration authentication, APIv2 can be called without using an access token (providing that the HTTP request stack supports this).

If APIv2 is called from outside Accolade and Accolade is configured for LDAP or SSO (WS-Fed, SAMLp, OAuth2 and/or OpenID Connect), an access token should be requested. The access token should be supplied on each request as HTTP Authorization header with Bearer scheme (Authorization: Bearer <access token>).

Currently only the Resource Owner Password Credentials Grant flow is supported by Accolade. This flow requires the submission of username and password to obtain the access token (see /Token endpoint). Also, the OAuth2 offline scope (aka refresh tokens) is supported; this means a refresh token (that has a long expiration date) can be used to get an new access token without supplying the user credentials again.

**Note:** Currently there is no other means than deleting or de-activating the user in Accolade to revoke access and refresh tokens.

### **Batch Support**

A batch request combines multiple APIv2 requests into a single POST request to the /api/v2/\$batch endpoint. The payload should be multipart/mixed.

**Request** Example (only showing GET requests, but POST, PUT, PATCH, and DELETE requests can be included as well:

```
POST http://<server>/api/v2/$batch HTTP/1.1

Content-Type: multipart/mixed; boundary="batch_e5b6e99a-61b3-4369-9331-c87803c7089a"

Host: <host>
Content-Length: 409

Expect: 100-continue
--batch_e5b6e99a-61b3-4369-9331-c87803c7089a

Content-Type: application/http; msgtype=request

GET /api/v2/administration/users(1) HTTP/1.1

Host: <host>

--batch_e5b6e99a-61b3-4369-9331-c87803c7089a

Content-Type: application/http; msgtype=request

GET /api/v2/core/projects HTTP/1.1
```

### Request

```
--batch e5b6e99a-61b3-4369-9331-c87803c7089a--
```

**Response** Example (only showing GET requests, but POST, PUT, PATCH, and DELETE requests can be included as well:

```
Response
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Length: 507
Content-Type: multipart/mixed; boundary="2d36ec9b-bf61-4ba9-
b265-ffb7604cff0a"
Expires: -1
Persistent-Auth: true
X-Frame-Options: SAMEORIGIN
Date: Wed, 31 May 2017 13:49:24 GMT
--2d36ec9b-bf61-4ba9-b265-ffb7604cff0a
Content-Type: application/http; msgtype=response
HTTP/1.1 200 OK
api-version: 2.0
Content-Type: application/json; charset=utf-8
{
"id": 1,
"name": "Administrator"
--2d36ec9b-bf61-4ba9-b265-ffb7604cff0a
Content-Type: application/http; msgtype=response
HTTP/1.1 200 OK
api-version: 2.0
Content-Type: application/json; charset=utf-8
```

```
Response

[
{
  "code": "1",
  "id": 1,
  "name": "Ajax"
}
]
  --2d36ec9b-bf61-4ba9-b265-ffb7604cff0a--
```

NET Framework and Xamarin (.NET for iOS and Andriod app) already have classes to compose a batch request and parse a batch response. There are several JavaScript libraries out there that can do the same, we need to select one (preferable an jQuery extension:batchjs.zip) to be used for Quick Grid customizations.

### **Standardized Properties**

Name	Туре	Description	
ld	Long	Resource ID	
Name	String	Resource display name	
SystemName	String	Resource system name, unique across resource	
		type, case insensitive	
Description	String	Resource description	
Order	Long	Position of resource in collection	
action <b>Date</b>	Date	Date of action	
		Examples:	
		CreatedDate ClosedDate(no	
		LastModifiedDate <b>but</b> UpdatedDate <b>instead)</b>	
action <b>Byld</b>	Long	ID of user that executed the action	
		Examples:	
		CreatedById, ClosedById	
<b>Is</b> Flag	Boolean	A flag	
		Examples:	
		IsClosed, IsActive, IsCalculated,	
		IsShowMessagesEnabled	
CanFlag	Boolean	A flag	
		Examples:	

Name	Туре	Description	
		CanCreateStatusReports	
resourceld	Long	ID of related resources	
		Examples:	
		TeamLeaderId, ClassId, ProcessModelId	
resource	DTO	Expanded related resource	
		Examples:	
		CreatedBy, ClosedBy, TeamLeader,	
		Class, ProcessModel	
resource +	DTO[] +	Hierarchical relationships	
ParentResource	DTO	Examples:	
		/aNodes + ParentNode, Groups +	
		ParentGroup	
Options	Enum	Options and flags	
Members	DTO[]	Resource members	
		Examples:	
		Project Team, AccessGroup,	
		SecurityList	
ExtendedFields	DTO[]	Metadata and extended fields	
		Examples:	
		Project Metadata, Deliverable	
		ExtendedFields, User ExtendedFields	
Notes	String	Examples:	
		StatusText, Comments	
<i>type</i> DownloadUri	String	Examples:	
		ProjectDocumentVersionDto.DownloadUri,	
		GateDocumentDto.TemplateDownloadUri,	
NA1 - 11 -1	1	ImageDto.DowloadUri	
Modelld	Long	Resource model ID	
		Examples:	
		ProcessModelId, PMPhaseId,	
		PMDeliverableId, PMActivityId, PMGateId	
Links	DTO[]	Examples:	
Liling		Associations, ProjectLinks	
RequestorRights	Enum	Resource rights and permissions for the API caller.	
RequestorRights	Enulli	Nesource rights and permissions for the API caller.	

## Accolade Web API Navigation

In addition to the overview information provided within the online Help, Accolade provides technical documentation for developers that is available with your Accolade installation. The documentation, which includes the available methods and call examples, can be accessed at <server name>/help/apihelp.

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If you are unfamiliar with working in APIs or require more technical support, contact Sopheon's Customer Support group for more information on training opportunities or additional services.

The Accolade Web API documentation is divided into areas representing different areas where information can be accessed within Accolade.

Category	Description	
Administration	This category contains the calls that are specific to access and security within Accolade.	
Configuration	This category contains the calls that are specific to the configuration components within Accolade.	
Core	This category contains the calls that are specific to project data within Accolade.	
Data	This category contains the calls that are specific to accessing the data tables for use with your company's BI tool of choice.  Important! This category requires an Accolade API key in order to access, and should not be used with any advanced configuration within Accolade. See "Creating and Managing Accolade Data API Keys" on page 12 for more information.	
Miscellaneous	This category contains the calls that are not applicable to the remaining categories.	
Resource Planning	This category contains the calls that are specific to the Resource Planning data within Accolade.	

## Appendix B

## **Data API Tables Reference**

This section lists the column sets and columns in each subject available for calls by the Accolade Data API.

**Note:** This section contains calls that correspond to Resource Planning components, and may not return information based on your company's configuration. Resource Planning is an optional Accolade component that you may not have access to. To implement this solution, contact Sopheon Customer Support.

## 🗫 Data API Load Schedule Best Practices

Whenever you refresh data, your BI application must query the Accolade database, possibly load the source data into a dataset, and then update any visualizations in your reports or dashboards that rely on the updated dataset. This process consists of multiple phases, depending on the application.

Keep the following set of best practice recommendations in mind when setting up your Accolade data load schedules for your BI application:

- Load What You Need Since the Data API allows for very fine-grain control of the Accolade data that can be retrieved, you can be very selective when loading data into your BI application. So in general, if you are not using a particular dataset, don't load it. For example, if your organization does not utilize snapshot or scenario functionality, don't tie up resources by calling this information for use in your BI application.
- Managing Load Volumes Querying a large amount of data can potentially impact your Accolade server performance. Scheduling data refreshes during off-hours and avoiding peak use times is recommended in general.
- Query Timing Be mindful when you set up automatic data refreshing, and select schedules that are appropriate for the type of data being retrieved.

Consider the following scenarios:

- You may have dashboards that display Accolade project financial data that is only updated at month-end. For optimal results, this data should be scheduled to refresh on a monthly basis that aligns with the Accolade project updates, so that the data presented in your BI application is current and accurate.
- You many have dashboards that display project deliverable and/or activity status updates that are updated as the project progresses. In this instance, you may want to refresh the data weekly (or more frequently, depending on your projects), in order to report pertinent project information that may impact important strategic meetings or decisions.
- You may have dashboards that display Accolade project data that is captured in quarterly snapshots. Due to the volume and snapshot schedule, this data should be scheduled to refresh on a quarterly basis that aligns with the snapshot timing, so that you are not using resources reloading the same dataset to your BI application.

Accolade 15.3 has added additional endpoints for the Data API. These newly created endpoints for Resource Demands and Capacities along with Timesheet Entries take advantage of OData capabilities (Select and Filter) to allow for smaller sets of data to be retrieved at a time. It is imperative to switch to the new endpoints to leverage this exciting functionality. The old endpoints are incompatible with these new features but will still continue to function.

### Listed below are the Old and New Endpoints:

Old Endpoint	New Endpoint	Old Column Name	New Column Name
GetTableData	/ap-	Resource Capa-	ResourceCa-
('SGM_	i/v2/Data/Re-	city Start Date	pacityStartDate
CORE_	sourceCapacities	Resource Capa-	ResourceCa-
ResourceCa-		city End Date	pacityEndDate
pacities')		Resource Capa- city	ResourceCapacity
		Resource Capa- city Unavailable	ResourceCa- pacityUnavailable
		ResourcePeri- odID_SYS	ResourcePeriodId
		ResourceID_ SYS	Resourceld
GetTableData ("SGM_ CORE_	/ap- i/v2/Data/Re- sourceDemands	Resource Demand Project Name	ResourceDe- mandProjectName
ResourceDe-		Resource	ResourceDe-
mands')		Demand Project	mandPro-
		Stage Name	jectStageName
		Resource	ResourceDe-
		Demand Start Date	mandStartDate
		Resource Demand End Date	ResourceDe- mandEndDate
		Resource	ResourceDe-
		Demand Type	mandType
		Resource	ResourceDe-
		Demand Value	mandValue
		Resource	ResourceDe-
		Demand Is Act-	mandlsActive
		ive	
		ProjectID_SYS	ProjectId
		Resource	ResourceDe-
		Demand Project Phase ID	mandProjectPhaseId
		Resource	ResourceDe-
		Demand Type ID	mandTypeId
		ResourceID_ SYS	Resourceld

Old Endpoint	New Endpoint	Old Column Name	New Column Name
		ResourcePeri- odID_SYS	ResourcePeriodId
		Resource Demand Curve	ResourceDe- mandCurve
		Resource Demand Mul- tiplier	ResourceDe- mandMultiplier
		Resource Demand Effect- ive Time Period	ResourceDe- mandEf- fectiveTimePeriod
		Resource Demand System Name	ResourceDe- mandSystemName
GetTableData ('SGM_	/ap- i/v2/Data/TimesheetEn-	TimesheetID_ SYS	TimesheetId
CORE_ Timesheet	tries	TimesheetRowl- D_SYS	TimesheetRowld
Entries')		Timesheet Entry Date	TimesheetEntryDate
		Timesheet Entry Value	TimesheetEntryValue
GetTableData	/ар-	ScenarioID_SYS	Scenariold
('APE_ CORE_Scen-	i/v2/Data/S- cen-	Resource Capa- city Start Date	ResourceCa- pacityStartDate
ario Resource Capacities')	arioResourceCapacities	Resource Capa- city End Date	ResourceCa- pacityEndDate
		Resource Capa- city	ResourceCapacity
		Resource Capa- city Unavailable	ResourceCa- pacityUnavailable
		Scen- arioRe- sourcePeriodID_ SYS	Scen- arioResourcePeriodId
		Scen- arioResourceID_ SYS	ScenarioResourceId

Old Endpoint	New Endpoint	Old Column Name	New Column Name
GetTableData	/ap-	ScenarioID_SYS	Scenariold
('APE_	i/v2/Data/S-	Resource	ResourceDe-
CORE_Scen-	cen-	Demand Project	mandProjectName
ario Resource	arioResourceDemands	Name	
Demands')		Resource	ResourceDe-
		Demand Start Date	mandStartDate
		Resource	ResourceDe-
		Demand End Date	mandEndDate
		Resource	ResourceDe-
		Demand Value	mandValue
		Resource	ResourceDe-
		Demand Is Act-	mandIsActive
		ive	
		Scen-	ScenarioprojectId
		arioProjectID_ SYS	
		Scen-	Scenarioresourceld
		arioResourceID_ SYS	
		Scen-	Scen-
		arioRe- sourcePeriodID_ SYS	arioresourceperiodId
		Resource	ResourceDe-
		Demand Curve	mandCurve
		Resource	ResourceDe-
		Demand Mul- tiplier	mandMultiplier
		Resource	ResourceDe-
		Demand Effect-	mandEf-
		ive Time Period	fectiveTimePeriod
GetTableData ('SGM_	/ap- i/v2/Data/Snap-	SnapshotID_ SYS	SnapshotId
SNAPSHOT-	shotResourceCapacities	Resource Capa-	ResourceCa-
S_Resource		city Start Date	pacityStartDate
Capacities')		Resource Capa-	ResourceCa-
		city End Date	pacityEndDate
		Resource Capa- city	ResourceCapacity

Old Endpoint	New Endpoint	Old Column Name	New Column Name
		Resource Capa-	ResourceCa-
		city Unavailable	pacityUnavailable
		ResourcePeri- odID_SYS	ResourcePeriodId
		ResourceID_ SYS	Resourceld
GetTableData ('SGM_	/ap- i/v2/Data/Snap-	SnapshotID_ SYS	Snapshotld
SNAPSHOT- S_Resource Demands')	shotResourceDemands	Resource Demand Project Name	ResourceDe- mandProjectName
		Resource Demand Project Stage Name	ResourceDe- mandPro- jectStageName
		Resource Demand Start Date	ResourceDe- mandStartDate
		Resource Demand End Date	ResourceDe- mandEndDate
		Resource	ResourceDe-
		Demand Type	mandType ResourceDe-
		Resource Demand Value	mandValue
		Resource	ResourceDe-
		Demand Is Act-	mandIsActive
		ProjectID_SYS	ProjectId
		Resource Demand Project Phase ID	ResourceDe- mandProjectPhaseId
		Resource	ResourceDe-
		Demand Type ID	mandTypeId
		ResourceID_ SYS	Resourceld
		ResourcePeri- odID_SYS	ResourcePeriodId
		Resource	ResourceDe-
		Demand Curve	mandCurve
		Resource Demand Mul-	ResourceDe- mandMultiplier

Old Endpoint	New Endpoint	Old Column Name	New Column Name
		tiplier	
GetRelatedPr-	/ap-	ProjectID_SYS	ProjectId
ojectsData	i/v2/Data/RelatedPro- jects	ToProjectID_ SYS	ToProjectId
		Level	Level
		LinkType	LinkType
		Depend-	DependencyType
		encyType	
		InConflict	InConflict
		Con-	ConflictCreatedOn
		flictCreatedOn	
		Con-	ConflictCreatedBy
		flictCreatedBy	

# **User Data Tables**

#### **Users**

This table contains details on users.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Users')

Columns	Datatypes	Used for Joins
UserID_SYS	Number	Yes
User Name	String	No
User Login	String	No
Email Address	String	No
Chat Address	String	No
Deleted	String	No
Active	String	No

#### How to join to other tables:

• **UserID\_SYS** can be used to join to other tables that contain the **UserID\_SYS** column (or any other user ID column).

#### **Load Order Examples:**

/api/v2/Data/GetTableData('SGM\_CORE\_Users')

# **User Access Log**

This table contains information on user access logs.

Accessed by: /api/v2/Data/GetTableData('SGM CORE User Access Log')

Columns	Datatypes	Used for Joins
Login Date	Date	No
User Login	String	No
User ID	Number	Yes
User Name	String	No
Login Result	String	No
IP Address	String	No
Language	String	No
User Agent	String	No

#### How to join to other tables:

• To access more User information, use the **User ID** column to join to the **UserID\_SYS** column from the **Users** table.

#### **Load Order Examples:**

/api/v2/Data/GetTableData('SGM\_CORE\_Users')
/api/v2/Data/GetTableData('SGM\_CORE\_User Access
Log')

#### **User Functions**

This table links users to their associated functions.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_User Functions')

Columns	Datatypes	Used for Joins
UserID_SYS	Number	Yes
FunctionID_SYS	Number	Yes

#### How to join to other tables:

- **UserID\_SYS** can be used to join to other tables that contain the **UserID\_SYS** column (or any other user ID column).
- To access more User information, use the User ID column to join to the UserID\_SYS column from the Users table.
- To access more Function information, use the **FunctionID\_SYS** column to join to the **FunctionID\_SYS** column from the **Functions** table.

#### **Load Order Examples:**

/api/v2/Data/GetTableData('SGM\_CORE\_Users')
/api/v2/Data/GetTableData('SGM\_CORE\_Functions')
/api/v2/Data/GetTableData('SGM\_CORE\_User Functions')

# **Security Data Tables**

# **Security Users**

This table contains user information for doing row level security on project data against the accessing user's User Login (aka NTName).

Accessed by: /api/v2/Data/GetSecurityUsersData

Columns	Datatypes	Used for Joins
SecurityUserID_SYS	Number	Yes
NTName	String	No

#### How to join to other tables:

- SecurityUserID\_SYS can be used to join to other tables that contain the SecurityUserID\_SYS (or any other user ID column).
- To secure the data in other tables, secure the project data, then use the **NTName** column to map to the login information for the user accessing the BI file.

# Load Order Examples: /api/v2/Data/GetSecurityUsersData

# **Security Lists**

This table contains the names of the security lists in Accolade.

Accessed by: /api/v2/Data/GetSecurityListsData

Columns	Datatypes	Used for Joins
SecurityListID	Number	Yes
Security List	String	No

#### How to join to other tables:

• SecurityListID can be used to join to other tables that contain the SecurityListID column.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityListsData

# **Projects Data Tables**

#### **User Project Access**

This table contains information on a user's project access for use with securing project data on a row level basis.

Accessed by: /api/v2/Data/GetUserProjectAccessData

Columns	Datatypes	Used for Joins
SecurityUserID_SYS	Number	Yes
SecurityProjectID_SYS	Number	Yes

#### How to join to other tables:

- SecurityUserID\_SYS can be used to join to other tables that contain the SecurityUserID\_SYS (or any other user ID column).
- SecurityProjectID\_SYS can be used to join to other tables that contain the SecurityProjectID\_SYS (or any other project ID column).
- To secure project data, use the SecurityProjectID\_SYS column to join to the SecurityProjectID\_SYS column from the Project Details table, then use the SecurityUserID\_SYS column to join that table to the SecurityUserID\_SYS column from the Security Users table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData

/api/v2/Data/GetUserProjectAccessData

#### **Project Security List Values by List**

This table contains security list value information by level for a specific security list for all projects in a system.

Accessed by: /api/v2/Data/GetProjectSecurityListValuesData
('SecurityListName')

Columns	Datatypes	Used for Joins
ProjectID_SYS	Number	Yes

**Important!** The remaining columns are the security list level names returned as strings, which will vary depending on your company's configuration.

**Important!** For very large data sets using the default format option, (1 - List) may be slower than using other format options such as 2 (Table) or 6 (Table + Headers) or output of CSV. If you encounter timeouts using the List option, try using the other format options.

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- To secure the data in this table, secure the project data, then use the **ProjectID\_SYS** column to join to the **ProjectID\_SYS** column from the **Project Details** table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')
/api/v2/Data/GetProjectSecurityListValuesData
('SecurityListName')

# **Project Details**

This table contains details about open and closed projects.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Project Details')

Columns	Datatypes	Used for Joins
Project Name	String	No
Project Description	String	No
Project ID	String	No
SecurityProjectID_SYS	Number	Yes
Project Creation Date	Date	No
Project Team Leader Name	String	No
Project Last Gate Decision	String	No
Project is in Trouble	String	No
Project Most Recent Status Report Text	String	No
Project Closed	String	No
Project Closed Date	Date	No
Idea Submitter Name	String	No
Migrated-from Project Name	String	No
ProjectID_SYS	Number	Yes
Project Team Leader ID	Number	Yes
Current Phase ID	Number	Yes
Project Model Name	String	No
Project Current Stage Name	String	No
Project Most Recent Status Report Date	Date	No
Project Most Recent Status Report Submitter Name	String	No
Project Created By	String	No
Project Class	String	No
Project Currency Code	String	No
Project Currency Name	String	No
Project Currency Conversion Factor	Number	No
Project Process Type	String	No
Access Group Name	String	No
Parent Access Group Name	String	No

Columns	Datatypes	Used for Joins
Project Start Date	Date	No
Project End Date	Date	No

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- To secure project data, use the SecurityProjectID\_SYS column to join to the SecurityProjectID\_SYS column from the User Project Access table, then use the SecurityUserID\_SYS column to join that table to the SecurityUserID\_SYS column from the Security Users table.
- To access more Project Team Leader information, use the Project Team Leader ID column to join to the UserID\_SYS column from the Users table.
- To get information about current stage of a project, use the Current Phase ID column
  in conjunction with the ProjectID\_SYS column to join to the ProjectPhaseID\_SYS and
  ProjectID\_SYS columns from the Project Stages and Gates table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')

# **Project History**

This table contains project events, reasons, and status messages.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Project History')

Columns	Datatypes	Used for Joins
Event Stage Number	Number	Yes
Event Date	Date	No
Event Type	String	No
Event Reason	String	No
Event Reason Code	String	No
Event Reason Name	String	No
Event User Name	String	No
Event User Login	String	No
Event Stage Name	String	No
Event Gate Number	Number	No
Event Gate Name	String	No
Event Text	String	No
Change-from Date	Date	No
Change-to Date	Date	No
Change-from Decision	String	No
Change-to Decision	String	No
Change-from Name	String	No
Change-to Name	String	No
Change-to in Trouble Flag	Boolean	No
Event User ID	Number	Yes
Change-from Team Leader ID	Number	Yes
Change-to Team Leader ID	Number	Yes
ProjectID_SYS	Number	Yes
Change-from Currency Code	String	No
Change-to Currency Code	String	No
Change-from Project Name	String	No

Columns	Datatypes	Used for Joins
Change-to Project Name	String	No
<b>Event Function Name</b>	String	No

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- To secure the data in this table, secure the project data, then use the ProjectID\_SYS
  column to join to the ProjectID\_SYS column from the Project Details table.
- To access more Event User information, use the Event User ID column to join to the UserID\_SYS column from the Users table.
- To access more Change-from Team Leader information, use the Change-from Team Leader ID column to join to the UserID\_SYS column from the Users table.
- To access more Change-to Team Leader information use the **Change-to Team Leader ID** column to join to the **UserID\_SYS** column from the **Users** table.
- To get information about which stage the history event happened in, use the ProjectID\_ SYS column in conjunction with the Event Stage Number column to join to the ProjectPhaseID\_SYS and ProjectID\_SYS columns from the Project Stages and Gates table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')
/api/v2/Data/GetTableData('SGM\_CORE\_Project
History')

#### **Project Team Members**

This table contains details about the members of each project team.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Project Team
Members')

Columns	Datatypes	Used for Joins
Project Team Member Name	String	No
Project Team Member Function	String	No
Project Team Member ID	Number	Yes
ProjectID_SYS	Number	Yes
Project Team Member Is Primary	Boolean	No

#### How to join to other tables:

- **ProjectID\_SYS** can be used to join to other project-related tables that contain the **ProjectID\_SYS** column.
- To secure the data in this table, secure the project data, then use the ProjectID\_SYS
  column to join to the ProjectID\_SYS column from the Project Details table.
- To access more Project Team Member information, use the **Project Team Member ID** column to join to the **UserID\_SYS** column from the **Users** table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')
/api/v2/Data/GetTableData('SGM\_CORE\_Project Team
Members')

# **Project Stages and Gates**

This table contains the stage and gate details for projects.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Project \$STAGES\$ and \$GATES\$')

Columns	Datatypes	Used for Joins
Project Stage Exists	String	No
Project Stage Name	String	No
Project Stage Relative Position	String	No
Project Stage Duration	Number	No
Project Gate Exists	String	No
Project Gate Name	String	No
Project Gate Date	Date	No
Project Gate Decision	String	No
Project Gate Meeting Place	String	No
Project Gate Notes	String	No
Project Gate Plan Date	Date	No
Project Gate Relative Position	String	No
ProjectPhaseID_SYS	Number	Yes
Project Gate Conditions	String	No
Project Gate Owner Name	String	No
Project Gate Owner ID	Number	Yes
ProjectID_SYS	Number	Yes
Project Stage Locked	String	No

#### How to join to other tables:

- **ProjectID\_SYS** can be used to join to other project-related tables that contain the **ProjectID\_SYS** column.
- ProjectPhaseID\_SYS can be used in conjunction with the ProjectID\_SYS column to join to other tables that contain the ProjectPhaseID\_SYS (or any other phase ID column) and ProjectID\_SYS columns.
- To secure the data in this table, secure the project data, then use the **ProjectID\_SYS** column to join to the **ProjectID\_SYS** column from the **Project Details** table.

• To access more Project Gate Owner information, use the **Project Gate Owner ID** column to join to the **UserID\_SYS** column from the **Users** table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')
/api/v2/Data/GetTableData('SGM\_CORE\_Project \$STAGES\$
and \$GATES\$')

#### **Project Gatekeepers**

This table contains gatekeeper details for projects.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Project
\$GATEKEEPERS\$')

Columns	Datatypes	Used for Joins
Project Gatekeeper Name	String	No
Project Gatekeeper	String	No
Function		
Project Gatekeeper ID	Number	Yes
ProjectID_SYS	Number	Yes
ProjectPhaseID_SYS	Number	Yes

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- ProjectPhaseID\_SYS can be used in conjunction with the ProjectID\_SYS column to join to other tables that contain the ProjectPhaseID\_SYS (or any other phase ID column) and ProjectID\_SYS columns.
- To secure the data in this table, secure the project data, then use the ProjectID\_SYS
  and ProjectPhaseID\_SYS columns to join to the ProjectID\_SYS and
  ProjectPhaseID\_SYS columns from the Project Stages and Gates table.
- To access more Gatekeeper information, use the **Project Gatekeeper ID** column to join to the **UserID\_SYS** column from the **Users** table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')
/api/v2/Data/GetTableData('SGM\_CORE\_Project \$STAGES\$
and \$GATES\$')
/api/v2/Data/GetTableData('SGM\_CORE\_Project
\$GATEKEEPERS\$')

**Load Order Examples:** 

# **Project Deliverables**

This table contains details about deliverables on projects.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Project
\$DELIVERABLES\$')

Columns	Datatypes	Used for Joins
Project Deliverable Name	String	No
Project Deliverable Owner Name	String	No
Project Deliverable Deadline	Date	No
Project Deliverable Plan Date	Date	No
Project Deliverable Status	String	No
Project Deliverable Status Notes	String	No
Project Deliverable Published	String	No
Project Deliverable Order	Number	No
ProjectDeliverableID_SYS	Number	Yes
Project Deliverable Owner ID	Number	Yes
Project Deliverable Status Changed By	String	No
Project Deliverable Status Change Date	Date	No
ProjectID_SYS	Number	Yes
ProjectPhaseID_SYS	Number	Yes
Project Deliverable Owner Changed By	String	No
Project Deliverable Owner Change Date	Date	No
Project Deliverable is Collaborative	String	No
Project Deliverable Function	String	No
Project Deliverable Functional Area	String	No
Deliverable Last Published Date	Date	No

Columns	Datatypes	Used for Joins
Deliverable Predecessor Name	String	No
Deliverable Predecessor Type	String	No
Deliverable Predecessor Stage Name	String	No

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- ProjectPhaseID\_SYS can be used in conjunction with the ProjectID\_SYS column to join to other tables that contain the ProjectPhaseID\_SYS (or any other phase ID column) and ProjectID\_SYS columns.
- **ProjectDeliverableID\_SYS** can be used to join to other project-related tables, such as the **Project Activities** table, that contain the **ProjectDeliverableID\_SYS** column.
- To secure the data in this table, secure the project data, then use the ProjectID\_SYS
  and ProjectPhaseID\_SYS columns to join to the ProjectID\_SYS and
  ProjectPhaseID\_SYS columns from the Project Stages and Gates table.
- To access more Project Deliverable Owner information, use the Project Deliverable
   Owner ID to join to the UserID\_SYS column from the Users table.

#### **Load Order Examples:**

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM_CORE_Project
Details')
/api/v2/Data/GetTableData('SGM_CORE_Project $STAGES$
and $GATES$')
/api/v2/Data/GetTableData('SGM_CORE_Project
$DELIVERABLES$')
```

# **Project Activities**

This table contains details about activities on projects.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Project
\$ACTIVITIES\$')

Columns	Datatypes	Used for Joins
Project Activity Name	String	No
Project Activity Owner Name	String	No
Project Activity Deadline	Date	No
Project Activity Plan Date	Date	No
Project Activity Status	String	No
Project Activity Status Notes	String	No
Project Activity Published	String	No
Project Activity Order	Number	No
Project Parent Deliverable Name	String	No
ProjectActivityID_SYS	Number	Yes
Project Activity Owner ID	Number	Yes
Project Activity Status Changed By	String	No
Project Activity Status Change Date	Date	No
ProjectID_SYS	Number	Yes
ProjectPhaseID_SYS	Number	Yes
ProjectDeliverableID_SYS	Number	Yes
Project Activity Owner Changed By	String	No
Project Activity Owner Change Date	Date	No
Project Activity is Collaborative	String	No
Project Activity Function	String	No
Project Activity Functional Area	String	No
Activity Last Published Date	Date	No

Columns	Datatypes	Used for Joins
Activity Predecessor Name	String	No
Activity Predecessor Type	String	No
Activity Predecessor Stage Name	String	No

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- ProjectPhaseID\_SYS can be used in conjunction with the ProjectID\_SYS column to join to other tables that contain the ProjectPhaseID\_SYS (or any other phase ID column) and ProjectID\_SYS columns.
- **ProjectActivityID\_SYS** can be used to join to other project-related tables, such as the **Project Deliverables** table, that contain the **ProjectActivityID\_SYS** column.
- ProjectDeliverableID\_SYS can be used to join to the ProjectDeliverableID\_SYS column from the Project Deliverables table.
- To secure the data in this table, secure the project data, then use the ProjectID\_SYS
  and ProjectPhaseID\_SYS columns to join to the ProjectID\_SYS and
  ProjectPhaseID\_SYS columns from the Project Stages and Gates table.
- To access more Project Activity Owner information, use the Project Activity Owner ID to join to the UserID\_SYS column from the Users table.

#### **Load Order Examples:**

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM_CORE_Project
Details')
/api/v2/Data/GetTableData('SGM_CORE_Project $STAGES$
and $GATES$')
/api/v2/Data/GetTableData('SGM_CORE_Project
$DELIVERABLES$')
/api/v2/Data/GetTableData('SGM_CORE_Project
$ACTIVITIES$')
```

#### **Project MS Project Tasks**

This table contains details about Microsoft Project tasks for a project.

Accessed by: /api/v2/Data/GetTableData('SGM CORE MS Project Tasks')

Columns	Datatypes	Used for Joins
MS Project Task Name	String	No
MS Project Task Owner Name	String	No
MS Project Task Description	String	No
MS Project Task Deadline	Date	No
MS Project Task Planned	Date	No
Start Date		
MS Project Task Planned Finish Date	Date	No
MS Project Task Status	String	No
MS Project Task Status Notes	String	No
MS Project Task Status Changed By	String	No
MS Project Task Changed Date	Date	No
MS Project Task Row Number	Number	No
ProjectMSProjectTaskID_SYS	Number	Yes
MS Project Task Owner ID	Number	Yes
ProjectID_SYS	Number	Yes

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- **ProjectMSProjectTaskID\_SYS** can be used to join to other project-related tables that contain the **ProjectMSProjectTaskID\_SYS** column.
- To secure the data in this table, secure the project data, then use the **ProjectID\_SYS** column to join to the **ProjectID\_SYS** column from the **Project Details** table.
- To access more MS Project Task Owner information, use the MS Project Task Owner ID to join to the UserID\_SYS column from the Users table.

Load Order Examples:	
/api/v2/Data/GetSecurityUsersData	

#### **Load Order Examples:**

/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')

/api/v2/Data/GetTableData('SGM\_CORE\_MS Project
Tasks')

#### **Trended Metric History**

This table contains information on metric history. Trended metric history tracks when a metric value changed, who made the change, where the change was made, and the value of the metric before and after the change.

Accessed by:/api/v2/Data/GetTableData('SGM\_CORE\_Trended Metric
History')

Columns	Datatypes	Used for Joins
ProjectID_SYS	Number	Yes
EventID_SYS	Number	Yes
ChangeSourceID_SYS	Number	No
Stage ID	Number	Yes
Change Source Name	String	No
Change Event Date	Date	No

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- Stage ID can be used in conjunction with the ProjectID\_SYS column to join to other tables that contain the ProjectPhaseID\_SYS (or any other phase ID column) and ProjectID\_SYS columns.
- To access more information about the metrics and what their values were when the
  trending event happened, use the EventID\_SYS column to join to the EventID\_SYS
  column from the Trended Project Metrics table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')
/api/v2/Data/GetTableData('SGM\_CORE\_Trended Metric
History')

#### **Trended Project Metrics**

This table contains trended project metrics data for a specific category.



It is recommended to name these "Trended Project Metrics - < category>" so that you can keep each category separate.

Accessed by: /api/v2/Data/GetTrendedProjectMetricsData('category')

Columns	Datatypes	Used for Joins
ProjectID_SYS	Number	Yes
EventID_SYS	Number	Yes

**Important!** The remaining columns are the trended metrics in this category, which will vary depending on your company's configuration.

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- To secure the data in this table, secure the project data, then use the **ProjectID\_SYS** column to join to the **ProjectID\_SYS** column from the **Project Details** table.
- To access more information about the event that caused the metrics to be trended, use the EventID\_SYS column to join to the EventID\_SYS column from the Trended Metric History table.

# Load Order Examples: /api/v2/Data/GetSecurityUsersData

/api/v2/Data/GetSecurityOsersData

/api/v2/Data/GetUserProjectAccessData

/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')

/api/v2/Data/GetTableData('SGM\_CORE\_Trended Metric
History')

/api/v2/Data/GetTrendedProjectMetricsData
('category')

#### **Project Matrix Metrics**

This table contains project matrix metric data for a specific matrix.

**?** 

It is recommended to name these "Project Matrix Metric - <matrix name>" so that you can keep each matrix separate.

Accessed by: /api/v2/Data/GetProjectMatrixMetricsData
('matrixSystemName')

Columns	Datatypes	Used for Joins
ProjectID_SYS	Number	Yes

**Important!** The remaining columns are the metrics in the matrix, which will vary depending on your company's configuration.

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- To secure the data in this table, secure the project data, then use the **ProjectID\_SYS** column to join to the **ProjectID\_SYS** column from the **Project Details** table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')
/api/v2/Data/GetProjectMatrixMetricsData
('matrixSystemName')

#### **Project Metrics**

This table contains data on metrics in a project for a specific category.



It is recommended to name these "Project Metrics - < category>" so that you can keep each category separate.

Accessed by: /api/v2/Data/GetProjectMetricsData('category')

Columns	Datatypes	Used for Joins
ProjectID_SYS	Number	Yes

**Important!** The remaining columns are the metrics in this category, which will vary depending on your company's configuration.

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- To secure the data in this table, secure the project data, then use the **ProjectID\_SYS** column to join to the **ProjectID\_SYS** column from the **Project Details** table.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')
/api/v2/Data/GetProjectMetricsData('category')

# **Related Projects Data Table**

This table contains related project data, and can be used to link the project data of one project to the project data of another project.

Accessed by: /api/v2/Data/RelatedProjects

Columns	Datatypes	Used for Joins
ProjectID_SYS	Number	Yes
ToProjectID_SYS	Number	Yes
Level	Number	No
Link Type	String	No
Dependency Type	String	No
In Conflict	Boolean	No
Conflict Created On	Date	No
Conflict Created By	String	No

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- ToProjectID\_SYS can be used to join to other project-related tables that contain the ToProjectID\_SYS column.
- To secure the data in this table, secure the project data, then use the ProjectID\_SYS
  column to join to the ProjectID\_SYS column from the Project Details table.
- To prevent circular references to project data, create a copy of the project data already loaded into your BI application and change the ProjectID\_SYS in those tables to ToProjectID\_SYS.

#### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData

/api/v2/Data/GetUserProjectAccessData

/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')

/api/v2/Data/RelatedProjects

# Reference Tables Data Table

This table contains reference table data.



It is recommended to name these "Reference Table - < reference table name>" so that you can keep each reference table separate.

Accessed by: /api/v2/Data/GetReferenceTableData('systemName')

Columns	Datatypes	Used for Joins
ReferenceTableID_SYS	Number	No
RowID_SYS	Number	No

**Important!** The remaining columns are the columns in the reference table, which will vary depending on your company's configuration.

#### How to join to other tables:

 Joining reference tables to other Accolade data will vary depending on your company's configuration.

#### **Load Order Examples:**

/api/v2/Data/GetReferenceTableData('systemName')

#### **Resources Data Tables**

#### **Resource Pools**

This table contains information on resource pools used in Resource Planning.

Accessed by: /api/v2/Data/GetTableData('SGM CORE Resource Pools')

Columns	Datatypes	Used for Joins
Resource Pool Name	String	No
Resource Pool Owner Name	String	No
Resource Pool is Active	Boolean	No
ResourcePoolID_SYS	Number	Yes
Resource Pool Owner ID	Number	Yes
Resource Pool Unit of Measure	String	No

#### How to join to other tables:

- **ResourcePoolID\_SYS** can be used to join to other resource-related tables that contain the **ResourcePoolID\_SYS** column.
- To access more Resource Pool Owner information, use the Resource Pool Owner User ID column to join to the UserID\_SYS column from the Users table.

#### **Load Order Examples:**

/api/v2/Data/GetTableData('SGM\_CORE\_Resource Pools')

#### Resources

This table contains information on resources used in Resource Planning.

Accessed by: /api/v2/Data/GetTableData('SGM CORE Resources')

Columns	Datatypes	Used for Joins
Resource Name	String	No
ResourceID_SYS	Number	Yes
Resource Pool Member User ID	Number	Yes
Resource Account Status	String	No
ResourcePoolID_SYS	Number	Yes
Resource System Name	String	No

#### How to join to other tables:

- **ResourceID\_SYS** can be used to join to other resource-related tables that contain the **ResourceID\_SYS** column.
- **ResourcePoolID\_SYS** can be used to join to other resource-related tables that contain the **ResourcePoolID\_SYS** column.
- To access more Resource Pool Member information, use the **Resource Pool Member User ID** column to join to the **UserID\_SYS** column from the **Users** table.

#### **Load Order Examples:**

/api/v2/Data/GetTableData('SGM\_CORE\_Resource Pools')
/api/v2/Data/GetTableData('SGM CORE Resources')

#### **Resource Capacities**

This table contains information on resource capacities used in Resource Planning.

#### Accessed by:/api/v2/Data/ResourceCapacities

Columns	Datatypes	Used for Joins
Resource Capacity Start Date	Date	No
Resource Capacity End Date	Date	No
Resource Capacity	Number	No
Resource Capacity Unavailable	Number	No
ResourcePeriodID_SYS	Number	Yes
ResourceID_SYS	Number	Yes

#### How to join to other tables:

- ResourceID\_SYS can be used to join to other resource-related tables that contain the ResourceID\_SYS column.
- **ResourcePeriodID\_SYS** can be used to join to other resource planning-related tables that contain the **ResourcePeriodID\_SYS** column.
- To access more information about the time period, use the ResourcePeriodID\_SYS
  column to join to the TimePeriodID\_SYS column from the Time Period table.
- To access more information about the resource pool, use the ResourceID\_SYS
  column to join to the ResourceID\_SYS column from the Resource table, then use the
  ResourcePoolID\_SYS column from the Resources table to join to the
  ResourcePoolID\_SYS column from the Resource Pools table.

#### **Load Order Examples:**

```
/api/v2/Data/GetTimePeriodsData
/api/v2/Data/GetTableData('SGM_CORE_Resource Pools')
/api/v2/Data/GetTableData('SGM_CORE_Resources')
/api/v2/Data/ResourceCapacities
```

#### **Resource Demands**

This table contains information on resource demands used in Resource Planning.

**Accessed by:** /api/v2/Data/ResourceDemands

Columns	Datatypes	Used for Joins
Resource Demand Project Name	String	No
Resource Demand Project Stage Name	String	No
Resource Demand Start Date	Date	No
Resource Demand End Date	Date	No
Resource Demand Type	String	No
Resource Demand Value	Number	No
Resource Demand is Active	String	No
ProjectID_SYS	Number	Yes
Resource Demand Project Phase ID	Number	Yes
Resource Demand Type ID	Number	No
ResourceID_SYS	Number	Yes
ResourcePeriodID_SYS	Number	Yes
Resource Demand Curve	String	No
Resource Demand Multiplier	Number	No
Resource Demand Effective Time Period	String	No
Resource Demand System Name	String	No

#### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- **ResourceID\_SYS** can be used to join to other resource-related tables that contain the **ResourceID\_SYS** column.
- **ResourcePeriodID\_SYS** can be used to join to other resource planning-related tables that contain the **ResourcePeriodID\_SYS** column.

- Resource Demand Project Phase ID can be used in conjunction with the ProjectID\_ SYS column to join to other tables that contain the ProjectPhaseID\_SYS (or any other phase ID column).
- To secure the data in this table, secure the project data, then use the **ProjectID\_SYS** column to join to the **ProjectID\_SYS** column from the **Project Details** table.
- To access more information about the time period, use the ResourcePeriodID\_SYS
  column to join to the TimePeriodID\_SYS column from the Time Period table.
- To access more information about the resource pool, use the ResourceID\_SYS
  column to join to the ResourceID\_SYS column from the Resource table, then use the
  ResourcePoolID\_SYS column from the Resources table to join to the
  ResourcePoolID\_SYS column from the Resource Pools table.

#### **Load Order Examples:**

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM_CORE_Project
Details')
/api/v2/Data/GetTableData('SGM_CORE_Project $STAGES$
and $GATES$')
/api/v2/Data/GetTimePeriodsData
/api/v2/Data/GetTableData('SGM_CORE_Resource Pools')
/api/v2/Data/GetTableData('SGM_CORE_Resources')
/api/v2/Data/ResourceCapacities
/api/v2/Data/ResourceDemands
```

**Important!** This list of examples includes some calls to get you started, but does not include all available options.

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# Time Periods

This table contains the time period information used in Resource Planning.

Accessed by: /api/v2/Data/GetTimePeriodsData

Columns	Datatypes	Used for Joins
TimePeriodID_SYS	Number	Yes
Caption	String	No
Period Start Date	Date	No
Period End Date	Date	No

#### How to join to other tables:

• TimePeriodID\_SYS can be used to join to the ResourcePeriodID\_SYS column in resource planning-related tables like Resource Demands and Resource Capacities.

#### **Load Order Examples:**

/api/v2/Data/GetTimePeriodsData

# **Functions Data Table**

This table contains information on functions.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Functions')

Columns	Datatypes	Used for Joins
FunctionID_SYS	Number	Yes
Function Name	String	No
Functional Area Name	String	No

#### How to join to other tables:

 To access more user information, use the FunctionID\_SYS column to join to the FunctionID\_SYS column from the Users table.

#### **Load Order Examples:**

/api/v2/Data/GetTableData('SGM CORE Functions')

# **Time Tracking Data Tables**

#### **Timesheets**

This table contains details on timesheets.

Accessed by: /api/v2/Data/GetTableData('SGM\_CORE\_Timesheets')

Columns	Datatypes	Used for Joins
TimesheetID_SYS	Number	Yes
Timesheet Start Date	Date	No
Timesheet End Date	Date	No
TimesheetOwnerID_SYS	Number	Yes
Timesheet Owner Name	String	No
TimesheetStatusID_SYS	Number	No
Timesheet Status	String	No
Timesheet Status Comment	String	No
TimesheetLastUpdatedByID_ SYS	Number	Yes
Timesheet Last Updated By Name	String	No
Timesheet Last Updated Date	Date	No
TimesheetApproverID_SYS	Number	Yes
Timesheet Approver Name	String	No
Timesheet Approver Date	Date	No
TimesheetOriginalApproverID_ SYS	Number	Yes
Timesheet Original Approver Name	String	No

#### How to join to other tables:

- To secure the data in this table, secure the project data, then use the TimesheetID\_ SYS and TimesheetRowID\_SYS columns to join to the TimesheetID\_SYS and TimesheetRowID\_SYS columns from the Timesheet Rows table.
- To access row information for a timesheet, use the **TimesheetID\_SYS** column to join to the **TimesheetID\_SYS** column from the **Timesheet Rows** table.

- To access more Timesheet Owner information, use the TimesheetOwnerID\_SYS
  column to join to the UserID\_SYS column from the Users table.
- To access more Timesheet Last Updated By information, use the TimesheetLastUpdatedByID\_SYS column to join to the UserID\_SYS column from the Users table.
- To access more Timesheet Approver information, use the TimesheetApproverID\_ SYS column to join to the UserID\_SYS column from the Users table.
- To access more Timesheet Original Approver information, use the TimesheetOriginalApproverID\_SYS column to join to the UserID\_SYS column from the Users table.

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM_CORE_Project
Details')
/api/v2/Data/GetTableData('SGM_CORE_Timesheets')
/api/v2/Data/GetTableData('SGM_CORE_Timesheet Rows')
```

### **Timesheet Rows**

This table contains rows of timesheet data.

Accessed by: /api/v2/Data/GetTableData('SGM CORE Timesheet Rows')

Columns	Datatypes	Used for Joins
TimesheetID_SYS	Number	Yes
TimesheetRowID_SYS	Number	Yes
ProjectID_SYS	Number	Yes
Timesheet Row Project Name	String	No
TimesheetRowApproverID_SYS	Number	Yes
Timesheet Row Approver Name	String	No
Timesheet Row Approval Date	Date	No
TimesheetOriginalApproverID_ SYS	Number	Yes
Timesheet Original Approver Name	String	No

### How to join to other tables:

- ProjectID\_SYS can be used to join to other project-related tables that contain the ProjectID\_SYS column.
- To secure the data in this table, secure the project data, then use the **ProjectID\_SYS** column to join to the **ProjectID\_SYS** column from the **Project Details** table.
- To access more information about the timesheet, use the TimesheetID\_SYS column to join to the TimesheetID\_SYS column from the Timesheets table.
- To access more Timesheet Row Approver information, use the TimesheetRowApproverID\_SYS column to join to the UserID\_SYS column from the Users table.
- To access more Timesheet Original Approver information, use the TimesheetOriginalApproverID\_SYS column to join to the UserID\_SYS column from the Users table.
- To get the corresponding timesheet entries for a timesheet row, use the TimesheetRowID\_SYS column in conjunction with TimesheetID\_SYS column to join to the TimesheetRowID\_SYS and TimesheetID\_SYS columns from the Timesheet Entries table.

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_CORE\_Project
Details')
/api/v2/Data/GetTableData('SGM\_CORE\_Timesheets')
/api/v2/Data/GetTableData('SGM\_CORE\_Timesheet Rows')

### **Timesheet Entries**

This table contains the entries for a row of timesheet data.

Accessed by: /api/v2/Data/TimesheetEntries

Columns	Datatypes	Used for Joins
TimesheetID_SYS	Number	Yes
TimesheetRowID_SYS	Number	Yes
Timesheet Entry Date	Date	No
Timesheet Entry Value	Number	No

### How to join to other tables:

- To secure the data in this table, secure the project data, then use the TimesheetID\_ SYS and TimesheetRowID\_SYS columns to join to the TimesheetID\_SYS and TimesheetRowID\_SYS columns from the Timesheet Rows table.
- To access more information about the timesheet, use the TimesheetID\_SYS column to join to the TimesheetID\_SYS column from the Timesheets table.
- To get the corresponding timesheet row for timesheet entries, use the TimesheetRowID\_SYS column in conjunction with TimesheetID\_SYS column to join to the TimesheetRowID\_SYS and TimesheetID\_SYS columns from the Timesheet Rows table.

### **Load Order Examples:**

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserProjectAccessData
/api/v2/Data/GetTableData('SGM_CORE_Project
Details')
/api/v2/Data/GetTableData('SGM_CORE_Timesheets')
/api/v2/Data/GetTableData('SGM_CORE_Timesheet Rows')
/api/v2/Data/TimesheetEntries
```

### User Scenario Access and Favorite Information Data Table

This table contains information on a user's scenario access and scenario favorites for use with securing scenario data on a row level basis.

Accessed by: /api/v2/Data/GetUserScenarioAccessData

Columns	Datatypes	Used for Joins
SecurityUserID_SYS	Number	Yes
SecurityScenarioID_SYS	Number	Yes
ScenariolsFavorite	Number	No

### How to join to other tables:

- SecurityUserID\_SYS can be used to join to other tables that contain the SecurityUserID\_SYS (or any other user ID column).
- SecurityScenarioID\_SYS can be used to join to other tables that contain the SecurityScenarioID\_SYS (or any other project ID column).
- To secure scenario project data, secure the scenario data, then use the SecurityUserID\_SYS column to join to the SecurityUserID\_SYS column from the Security Users table to get the NTName for the user.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData

/api/v2/Data/GetUserScenarioAccessData

### Scenarios Data Table

This table contains details on scenarios.

Accessed by: /api/v2/Data/GetTableData('APE CORE Scenarios')

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
Scenario Name	String	No
Scenario Created By ID	Number	Yes
Scenario Created By Name	String	No
Scenario Creation Date	Date	No
Scenario Updated By ID	Number	Yes
Scenario Updated By Name	String	No
Scenario Updated Date	Date	No
Scenario is Public	String	No
Scenario Last Commit Date	Date	No
Scenario Last Commit By ID	Number	Yes
Scenario Last Commit By Name	String	No

### How to join to other tables:

- **ScenarioID\_SYS** can be used to join to other scenario-related tables that contain the **ScenarioID\_SYS** column.
- To secure scenario data, use the ScenarioID\_SYS column to join to the SecurityScenarioID\_SYS column from the User Scenario Access table, then use the SecurityUserID\_SYS column to join that table to the SecurityUserID\_SYS column from the SecurityUsers table.
- To access more Scenario Created By information, use the Scenario Created By ID column to join to the UserID\_SYS column from the Users table.
- To access more Scenario Updated By information, use the Scenario Updated By ID column to join to the UserID\_SYS column from the Users table.
- To access more Scenario Last Commit By information, use the Scenario Last Commit By ID column to join to the UserID\_SYS column from the Users table.

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetTableData('APE\_CORE\_Scenarios')

### Scenario Editors Data Table

This table contains data about scenario editors.

Accessed by: /api/v2/Data/GetTableData('APE CORE Scenario Editors')

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
ScenarioUserID_SYS	Number	Yes
Scenario Editor Name	String	No
Scenario Checked Out	String	No

### How to join to other tables:

- **ScenarioID\_SYS** can be used to join to other scenario-related tables that contain the **ScenarioID\_SYS** column.
- To secure the data in this table, secure the scenario data, then use the ScenarioID\_ SYS and ScenarioProjectID\_SYS columns to join to the ScenarioID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Details table.
- To access more Scenario Editor information, use the **ScenarioUserID\_SYS** column to join to the **UserID\_SYS** column from the **Users** table.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetTableData('APE\_CORE\_Scenarios')
/api/v2/Data/GetTableData('APE\_CORE\_Scenario
Editors')

### Scenario Projects Data Tables

### **Scenario User Project Access**

This table contains information on a user's scenario project access for use with securing scenario project data on a row level basis.

Accessed by: /api/v2/Data/GetScenarioUserProjectAccessData

Columns	Datatypes	Used for Joins
SecurityUserID_SYS	Number	Yes
SecurityScenarioID_SYS	Number	Yes
SecurityProjectID_SYS	Number	Yes

### How to join to other tables:

- SecurityUserID\_SYS can be used to join to other tables that contain the SecurityUserID\_SYS (or any other user ID column).
- SecurityScenarioID\_SYS can be used to join to other tables that contain the SecurityScenarioID\_SYS (or any other project ID column).
- SecurityProjectID\_SYS can be used to join to other tables that contain the SecurityProjectID\_SYS (or any other project ID column).
- To secure scenario project data, secure the scenario data, then use the SecurityUserID\_SYS column to join to the SecurityUserID\_SYS column from the Security Users table to get the NTName for the user.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData

/api/v2/Data/GetUserScenarioAccessData

/api/v2/Data/GetSnapshotUserProjectAccessData

### Scenario Project Security List Values by List

This table contains security list value information by level for a specific security list for all scenario projects in a system.

Accessed by: /api/v2/Data/GetScenarioProjectSecurityListData
('SecurityListName')

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
ScenarioProjectID_SYS	Number	Yes

**Important!** The remaining columns are the security list level names returned as strings, which will vary depending on your company's configuration.

### How to join to other tables:

- **ScenarioID\_SYS** can be used to join to other scenario-related tables that contain the **ScenarioID\_SYS** column.
- ScenarioProjectID\_SYS can be used in conjunction with the ScenarioID\_SYS column
  to join to other scenario-related tables that contain the ScenarioProjectID\_SYS and
  ScenarioID\_SYS columns.
- To secure the data in this table, secure the scenario data, then use the ScenarioID\_ SYS and ScenarioProjectID\_SYS columns to join to the ScenarioID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Details table.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetScenarioUserProjectAccessData
/api/v2/Data/GetTableData('APE\_CORE\_Scenarios')
/api/v2/Data/GetTableData('APE\_CORE\_Scenario ProjectDetails')
/api/v2/Data/GetScenarioProjectSecurityListData
('SecurityListName')

### Scenario Project Details

This table contains scenario project details.

Accessed by: /api/v2/Data/GetTableData('APE\_CORE\_Scenario Project
Details')

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
ScenarioProjectID_SYS	Number	Yes
Project ID	String	No
Project Name	String	No
Access Group ID	Number	No
Access Group	String	No
Parent Access Group ID	Number	No
Parent Access Group	String	No
Project Description	String	No
Project Process Type	String	No
Project Team Leader ID	Number	Yes
Project Team Leader Name	String	No
Project is In Trouble	String	No
Project Creation Date	Date	No
Project Closed	String	No
Current Phase ID	Number	Yes
Project Last Gate Decision	String	No
Project Most Recent Status Report Text	String	No
Project Last Gate Decision Code	Number	No
Project Model ID	Number	No
Project Model Name	String	No
Project Current Stage Name	String	No
Project Class ID	Number	No
Project Class	String	No
Project Created By ID	Number	Yes
Project Created By	String	No
Project Rank	Number	No
Project is Active	String	No

Columns	Datatypes	Used for Joins
Project Scenario Rank	Number	No
Project Start Date	Date	No
Project End Date	Date	No

### How to join to other tables:

- ScenarioID\_SYS can be used to join to other scenario-related tables that contain the ScenarioID\_SYS column.
- ScenarioProjectID\_SYS can be used in conjunction with the ScenarioID\_SYS column
  to join to other scenario-related tables that contain the ScenarioProjectID\_SYS and
  ScenarioID\_SYS columns.
- To secure snapshot project data, use the ScenarioID\_SYS and ScenarioProjectID\_ SYS columns to join to the SecurityScenarioID\_SYS and SecurityProjectID\_SYS columns from the Scenario User Project Access table, then use the SecurityUserID\_SYS column to join to the SecurityUserID\_SYS column from the Security Users table.
- To access more Project Team Leader information, use the Project Team Leader ID column to join to the UserID\_SYS column from the Users table.
- To access more Project Created By information, use the Project Created By ID column to join to the UserID\_SYS column from the Users table.
- To get information about current stage of a project, use the Current Phase ID column in conjunction with the ScenarioProjectID\_SYS column to join to the ScenarioProjectPhaseID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Stages and Gates table.

### **Load Order Examples:**

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetScenarioUserProjectAccessData
/api/v2/Data/GetTableData('APE_CORE_Scenarios')
/api/v2/Data/GetTableData('APE_CORE_Scenario ProjectDetails')
```

### Scenario Project Stages and Gates

This table contains information on scenario project stages and gates.

Accessed by:/api/v2/Data/GetTableData('APE\_CORE\_Scenario Project
\$STAGES\$ and \$GATES\$')

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
ScenarioProjectID_SYS	Number	Yes
ScenarioProjectPhaseID_SYS	Number	Yes
Project Stage Exists	String	No
Project Gate Name	String	No
Project Gate Exists	String	No
Project Gate Date	Date	No

### How to join to other tables:

- ScenarioID\_SYS can be used to join to other scenario-related tables that contain the ScenarioID\_SYS column.
- ScenarioProjectID\_SYS can be used in conjunction with the ScenarioID\_SYS column
  to join to other scenario-related tables that contain the ScenarioProjectID\_SYS and
  ScenarioID\_SYS columns.
- ScenarioProjectPhaseID\_SYS can be used in conjunction with the ScenarioID\_SYS
  and ScenarioProjectID\_SYS columns to join to other scenario-related tables that
  contain the ScenarioProjectPhaseID\_SYS (or any other phase ID column),
  ScenarioID\_SYS and ScenarioProjectID\_SYS columns.
- To secure the data in this table, secure the scenario data, then use the ScenarioID\_ SYS and ScenarioProjectID\_SYS columns to join to the ScenarioID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Details table.

### **Load Order Examples:**

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetScenarioUserProjectAccessData
/api/v2/Data/GetTableData('APE_CORE_Scenarios')
/api/v2/Data/GetTableData('APE_CORE_Scenario Project Details')
```

/api/v2/Data/GetTableData('APE\_CORE\_Scenario Project \$STAGES\$ and \$GATES\$')

### **Scenario Project Matrix Metrics**

This table contains scenario project matrix metric data for a specific matrix.



It is recommended to name these "Scenario Project Matrix Metric - <matrix name>" so that you can keep each matrix separate.

Accessed by:/api/v2/Data/GetScenarioProjectMatrixMetricsData
('matrixSystemName')

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
ScenarioProjectID_SYS	Number	Yes
RowID	Number	No

**Important!** The remaining columns are the metrics in the matrix, which will vary depending on your company's configuration.

### How to join to other tables:

- ScenarioID\_SYS can be used to join to other scenario-related tables that contain the ScenarioID\_SYS column.
- ScenarioProjectID\_SYS can be used in conjunction with the ScenarioID\_SYS column
  to join to other scenario-related tables that contain the ScenarioProjectID\_SYS and
  ScenarioID\_SYS columns.
- To secure the data in this table, secure the scenario data, then use the ScenarioID\_ SYS and ScenarioProjectID\_SYS columns to join to the ScenarioID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Details table.

### **Load Order Examples:**

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetScenarioUserProjectAccessData
/api/v2/Data/GetTableData('APE_CORE_Scenarios')
/api/v2/Data/GetTableData('APE_CORE_Scenario ProjectDetails')
/api/v2/Data/GetScenarioProjectMatrixMetricsData
('matrixSystemName')
```

Important! This list of examples includes some calls to get

you started, but does not include all available options.

### **Scenario Project Metrics**

This table contains scenario data on metrics in a project for a specific category.



It is recommended to name these "Scenario Project Metrics - < category>" so that you can keep each category separate.

Accessed by: /api/v2/Data/GetScenarioProjectMetricsData('category')

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
ScenarioProjectID_SYS	Number	Yes

**Important!** The remaining columns are the metrics in this category, which will vary depending on your company's configuration.

### How to join to other tables:

- ScenarioID\_SYS can be used to join to other scenario-related tables that contain the ScenarioID\_SYS column.
- ScenarioProjectID\_SYS can be used in conjunction with the ScenarioID\_SYS column
  to join to other scenario-related tables that contain the ScenarioProjectID\_SYS and
  ScenarioID\_SYS columns.
- To secure the data in this table, secure the scenario data, then use the ScenarioID\_ SYS and ScenarioProjectID\_SYS columns to join to the ScenarioID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Details table.

### **Load Order Examples:**

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetScenarioUserProjectAccessData
/api/v2/Data/GetTableData('APE_CORE_Scenarios')
/api/v2/Data/GetTableData('APE_CORE_Scenario Project Details')
/api/v2/Data/GetScenarioProjectMetricsData
('category')
```

### Scenario Resources Data Tables

### Scenario Resource Pools

This table contains information on scenario resource pools used in Resource Planning.

Accessed by:/api/v2/Data/GetTableData('APE\_CORE\_Scenario Resource
Pools')

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
Resource Pool Name	String	No
ScenarioResourcePoolID_ SYS	Number	Yes
Resource Pool Unit of Measure	String	No

### How to join to other tables:

- **ScenarioID\_SYS** can be used to join to other scenario-related tables that contain the **ScenarioID\_SYS** column.
- ScenarioResourcePoolID\_SYS can be used in conjunction with the ScenarioID\_SYS column to join to other scenario-related tables that contain the ScenarioResourcePoolID\_SYS and ScenarioID\_SYS columns.
- To secure the data in this table, secure the scenario data, then use the ScenarioID\_ SYS and ScenarioProjectID\_SYS columns to join to the ScenarioID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Details table.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetTableData('APE\_CORE\_Scenarios')
/api/v2/Data/GetTableData('APE\_CORE\_Scenario
Resource Pools')

### Scenario Resources

This table contains information on scenario resources used in Resource Planning.

Accessed by: /api/v2/Data/GetTableData('APE CORE Scenario Resources')

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
Resource Name	String	No
ScenarioResourceID_SYS	Number	Yes
ScenarioResourcePoolID_ SYS	Number	Yes

### How to join to other tables:

- ScenarioID\_SYS can be used to join to other scenario-related tables that contain the ScenarioID\_SYS column.
- ScenarioResourceID\_SYS can be used in conjunction with the ScenarioID\_SYS
  column to join to other resource planning-related tables that contain the
  ScenarioResourceID\_SYS and ScenarioID\_SYS columns.
- ScenarioResourcePoolID\_SYS can be used in conjunction with the ScenarioID\_SYS
  column to join to other scenario-related tables that contain the
  ScenarioResourcePoolID\_SYS and ScenarioID\_SYS columns.
- To secure the data in this table, secure the scenario data, then use the ScenarioID\_ SYS and ScenarioProjectID\_SYS columns to join to the ScenarioID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Details table.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetTableData('APE\_CORE\_Scenarios')
/api/v2/Data/GetTableData('APE\_CORE\_Scenario
Resources')

### **Scenario Resource Capacities**

This table contains information on scenario resource capacities used in Resource Planning.

Accessed by: /api/v2/Data/ScenarioResourceCapacities

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
Resource Capacity Start Date	Date	No
Resource Capacity End Date	Date	No
Resource Capacity	Number	No
Resource Capacity Unavailable	Number	No
ScenarioResourcePeriodID_ SYS	Number	Yes
ScenarioResourceID_SYS	Number	Yes

### How to join to other tables:

- ScenarioID\_SYS can be used to join to other scenario-related tables that contain the ScenarioID\_SYS column.
- ScenarioResourceID\_SYS can be used in conjunction with the ScenarioID\_SYS
  column to join to other resource planning-related tables that contain the
  ScenarioResourceID\_SYS and ScenarioID\_SYS columns.
- ScenarioResourcePeriodID\_SYS can be used to in conjunction with the ScenarioID\_ SYS column to join to other resource planning-related tables that contain the ScenarioResourcePeriodID\_SYS and ScenarioID\_SYS columns.
- To secure the data in this table, secure the scenario data, then use the ScenarioID\_ SYS and ScenarioProjectID\_SYS columns to join to the ScenarioID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Details table.
- To access more information about the time period, use the ScenarioResourcePeriodID\_SYS column to join to the TimePeriodID\_SYS column from the Time Period table.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData

/api/v2/Data/GetUserScenarioAccessData

/api/v2/Data/GetTimePeriodsData

/api/v2/Data/GetTableData('APE CORE Scenarios')

/api/v2/Data/GetTableData('APE\_CORE\_Scenario
Resource Pools')

/api/v2/Data/ScenarioResourceCapacities

/api/v2/Data/ScenarioResourceCapacities

### Scenario Resource Demands

This table contains information on scenario resource demands used in Resource Planning.

Accessed by: /api/v2/Data/ScenarioResourceDemands

Columns	Datatypes	Used for Joins
ScenarioID_SYS	Number	Yes
Resource Demand Project	String	No
Name		
Resource Demand Start Date	Date	No
Resource Demand End Date	Date	No
Resource Demand Value	Number	No
Resource Demand is Active	String	No
ScenarioProjectID_SYS	Number	Yes
ScenarioResourceID_SYS	Number	Yes
ScenarioResourcePeriodID_ SYS	Number	Yes
Resource Demand Curve	String	No
Resource Demand Multiplier	Number	No
Resource Demand Effective Time Period	String	No

### How to join to other tables:

- ScenarioID\_SYS can be used to join to other scenario-related tables that contain the ScenarioID\_SYS column.
- ScenarioProjectID\_SYS can be used in conjunction with the ScenarioID\_SYS column
  to join to other scenario-related tables that contain the ScenarioProjectID\_SYS and
  ScenarioID\_SYS columns.
- ScenarioResourceID\_SYS can be used in conjunction with the ScenarioID\_SYS
  column to join to other resource planning-related tables that contain the
  ScenarioResourceID\_SYS and ScenarioID\_SYS columns.
- ScenarioResourcePeriodID\_SYS can be used to in conjunction with the ScenarioID\_ SYS column to join to other resource planning-related tables that contain the ScenarioResourcePeriodID\_SYS and ScenarioID\_SYS columns.
- To secure the data in this table, secure the scenario data, then use the ScenarioID\_ SYS and ScenarioProjectID\_SYS columns to join to the ScenarioID\_SYS and ScenarioProjectID\_SYS columns from the Scenario Project Details table.

 To access more information about the time period, use the ScenarioResourcePeriodID\_SYS column to join to the TimePeriodID\_SYS column from the Time Period table.

### **Load Order Examples:**

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetUserScenarioAccessData
/api/v2/Data/GetScenarioUserProjectAccessData
/api/v2/Data/GetTimePeriodsData
/api/v2/Data/GetTableData('APE_CORE_Scenarios')
/api/v2/Data/GetTableData('APE_CORE_Scenario Project Details')
/api/v2/Data/GetTableData('APE_CORE_Scenario Resource Pools')
/api/v2/Data/GetTableData('APE_CORE_Scenario Resources')
/api/v2/Data/ScenarioResourceCapacities
/api/v2/Data/ScenarioResourceDemands
```

### **Snapshots Data Table**

This table contains details on snapshots.

Accessed by: /api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details')

Columns	Datatypes	Used for Joins
SnapshotID_SYS	Number	Yes
Snapshot Name	String	No
Snapshot Date	Date	No
Snapshot Description	String	No
Snapshot Type	String	No
Snapshot Position - Type	Number	No
Snapshot Position - Global	Number	No

### How to join to other tables:

• SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.

### **Load Order Examples:**

/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details')

### **Snapshot Projects Data Tables**

### **Snapshot User Project Access**

This table contains information on a user's snapshot project access for use with securing snapshot project data on a row level basis.

Accessed by: GetSnapshotUserProjectAccessData

Columns	Datatypes	Used for Joins
SecuritySnapshotID_SYS	Number	Yes
SecurityUserID_SYS	Number	Yes
SecurityProjectID_SYS	Number	Yes

### How to join to other tables:

- SecuritySnapshotID\_SYS can be used to join to other tables that contain the SecuritySnapshotID\_SYS (or any other snapshot ID column).
- SecurityUserID\_SYS can be used to join to other tables that contain the SecurityUserID\_SYS (or any other user ID column).
- SecurityProjectID\_SYS can be used to join to other tables that contain the SecurityProjectID\_SYS (or any other project ID column).
- To secure snapshot project data, secure the snapshot data, then use the SecurityUserID\_SYS column to join to the SecurityUserID\_SYS column from the Security Users table to get the NTName for the user.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData

 ${\tt GetSnapshotUserProjectAccessData}$ 

### **Snapshot Project Security List Values by List**

This table contains security list value information by level for a specific security list for all snapshot projects in a system.

Accessed by: /api/v2/Data/GetSnapshotProjectSecurityListValuesData
('SecurityListName')

Columns	Datatypes	Used for Joins
SnapshotID_SYS	Number	Yes
SnapshotProjectID_SYS	Number	Yes

**Important!** The remaining columns are the security list level names returned as strings, which will vary depending on your company's configuration.

### How to join to other tables:

- SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.
- SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.
- To secure the data in this table, secure the snapshot data, then use the SnapshotID\_ SYS and SnapshotProjectID\_SYS columns to join to the SnapshotID\_SYS and SnapshotProjectID\_SYS columns from the Snapshot Project Details table.

# Load Order Examples: /api/v2/Data/GetSecurityUsersData /api/v2/Data/GetSnapshotUserProjectAccessData /api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details') /api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_ProjectDetails') /api/v2/Data/GetSnapshotProjectMetricData ('category') /api/v2/Data/GetSnapshotProjectSecurityListValuesData('Security List 1') Important! This list of examples includes some calls to get you started, but does not include all available options.

### **Snapshot Project Details**

This table contains information on snapshot project details.

**Accessed by:** /api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Project Details')

Columns	Datatypes	Used for Joins
SnapshotID_SYS	Number	Yes
SnapshotProjectID_SYS	Number	Yes
Project Name	String	No
Project Description	String	No
Project ID	String	No
Project Creation Date	Date	No
Project Team Leader Name	String	No
Project is In Trouble	String	No
Project Most Recent Status Report Text	String	No
Project Closed	String	No
Project Closed Date	Date	No
Idea Submitter Name	String	No
Project Team Leader ID	Number	Yes
Current Phase ID	Number	Yes
Last Gate Decision Code	Number	No
Migrated-from Project ID	Number	Yes
Project Model Name	String	No
Project Model ID	Number	No
Project Current Stage Name	String	No
Project Most Recent Status Report Date	Date	No
Project Most Recent Status Report Submitter Name	String	No
Project Created By	String	No
Project Class	String	No
Project Currency Code	String	No
Project Currency Name	String	No
Project Currency Conversion Factor	Number	No

Columns	Datatypes	Used for Joins
Project Process Type	String	No
Project Snapshot Date	Date	No
Project Start Date	Date	No
Project End Date	Date	No

### How to join to other tables:

- SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.
- SnapshotProjectID\_SYS can be used in conjunction with the SnapshotID\_SYS column to join to other snapshot-related tables that contain the SnapshotProjectID\_SYS and SnapshotID\_SYS columns.
- Migrated-from Project ID can be used to join to other tables that contain the ProjectID\_SYS column. Migrated-from Project ID can also be used in conjunction with the SnapshotID\_SYS and SnapshotProjectID\_SYS columns to join to other snapshot-related tables that contain the SnapshotProjectID\_SYS and SnapshotID\_ SYS columns.
- To secure snapshot project data, use the SnapshotID\_SYS and SnapshotProjectID\_SYS columns to join to the SecuritySnapshotID\_SYS and SecurityProjectID\_SYS columns from the Snapshot User Project Access table, then use the SecurityUserID\_SYS column to join to the SecurityUserID\_SYS column from the Security Users table.
- To access more Project Team Leader information, use the Project Team Leader ID column to join to the UserID\_SYS column from the Users table.
- To get information about current stage of a project, use the Current Phase ID column in conjunction with the SnapshotProjectID\_SYS and SnapshotID\_SYS columns to join to the ProjectPhaseID\_SYS, SnapshotProjectID\_SYS, and SnapshotID\_SYS columns from the Snapshot Project Stages and Gates table.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetSnapshotUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details')
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Project
Details')

### **Snapshot Project Stages and Gates**

This table contains information on snapshot project stages and gates.

Accessed by: /api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Project \$STAGES\$
and \$GATES\$')

Columns	Datatypes	Used for Joins
Project Stage Exists	String	No
Project Stage Name	String	No
Project Stage Relative Position	String	No
Project Stage Duration	Number	No
Project Gate Exists	String	No
Project Gate Name	String	No
Project Gate Date	Date	No
Project Gate Decision	String	No
Project Gate Meeting Place	String	No
Project Gate Notes	String	No
Project Gate Plan Date	Date	No
Project Gate Relative Position	String	No
ProjectPhaseID_SYS	Number	Yes
Project Gate Conditions	String	No
Project Gate Owner Name	String	No
Project Gate Owner ID	Number	Yes
SnapshotProjectID_SYS	Number	Yes
Project Stage Locked	String	No
SnapshotID_SYS	Number	Yes

### How to join to other tables:

- SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.
- SnapshotProjectID\_SYS can be used in conjunction with the SnapshotID\_SYS
  column to join to other snapshot-related tables that contain the SnapshotProjectID\_
  SYS and SnapshotID\_SYS columns.
- ProjectPhaseID\_SYS can be used in conjunction with the SnapshotProjectID\_SYS and SnapshotID\_SYS columns to join to other tables that contain the

**ProjectPhaseID\_SYS** (or any other phase ID column), **SnapshotProjectID\_SYS** and **SnapshotID\_SYS** columns.

- To secure the data in this table, secure the snapshot data, then use the SnapshotID\_ SYS and SnapshotProjectID\_SYS columns to join to the SnapshotID\_SYS and SnapshotProjectID\_SYS columns from the Snapshot Project Details table.
- To access more Project Gate Owner information, use the Project Gate Owner ID column to join to the UserID\_SYS column from the Users table.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetSnapshotUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details')
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Project
Details')
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Project
\$STAGES\$ and \$GATES\$')

### **Snapshot Project Matrix Metrics**

This table contains snapshots of project matrix metric data for a specific matrix.



It is recommended to name these "Snapshot Project Matrix Metric - <matrix name>" so that you can keep each matrix separate.

Accessed by: /api/v2/Data/GetSnapshotProjectMatrixMetricsData
('matrixSystemName')

Columns	Datatypes	Used for Joins
SnapshotID_SYS	Number	Yes
SnapshotProjectID_SYS	Number	Yes
RowID	Number	No

**Important!** The remaining columns are the metrics in the matrix, which will vary depending on your company's configuration.

### How to join to other tables:

- SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.
- SnapshotProjectID\_SYS can be used in conjunction with the SnapshotID\_SYS
  column to join to other snapshot-related tables that contain the SnapshotProjectID\_
  SYS and SnapshotID\_SYS columns.
- To secure the data in this table, secure the snapshot data, then use the SnapshotID\_ SYS and SnapshotProjectID\_SYS columns to join to the SnapshotID\_SYS and SnapshotProjectID\_SYS columns from the Snapshot Project Details table.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetSnapshotUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details')
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_ProjectDetails')
/api/v2/Data/GetSnapshotProjectMatrixMetricsData('matrixSystemName')

### **Snapshot Project Metrics**

This table contains snapshot data on metrics in a project for a specific category.



It is recommended to name these "Snapshot Project Metrics - < category>" so that you can keep each category separate.

Accessed by: /api/v2/Data/GetSnapshotProjectMetricData('category')

Columns	Datatypes	Used for Joins
SnapshotID_SYS	Number	Yes
SnapshotProjectID_SYS	Number	Yes

**Important!** The remaining columns are the metrics in this category, which will vary depending on your company's configuration.

### How to join to other tables:

- SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.
- SnapshotProjectID\_SYS can be used in conjunction with the SnapshotID\_SYS column to join to other snapshot-related tables that contain the SnapshotProjectID\_SYS and SnapshotID\_SYS columns.
- To secure the data in this table, secure the snapshot data, then use the SnapshotID\_ SYS and SnapshotProjectID\_SYS columns to join to the SnapshotID\_SYS and SnapshotProjectID\_SYS columns from the Snapshot Project Details table.

### **Load Order Examples:**

/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetSnapshotUserProjectAccessData
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details')
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_ProjectDetails')
/api/v2/Data/GetSnapshotProjectMetricData
('category')

### **Snapshot Resources Data Tables**

### **Snapshot Resource Pools**

This table contains information on snapshot resource pools used in Resource Planning.

Accessed by: /api/v2/Data/GetTableData('SGM SNAPSHOTS Resource Pools')

Columns	Datatypes	Used for Joins
SnapshotID_SYS	Number	Yes
Resource Pool Name	String	No
Resource Pool Owner Name	String	No
Resource Pool is Active	Boolean	No
ResourcePoolID_SYS	Number	Yes
Resource Pool Owner ID	Number	Yes
Resource Pool Unit of Measure	String	No

### How to join to other tables:

- SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.
- ResourcePoolID\_SYS can be used in conjunction with the SnapshotID\_SYS column
  to join to other resource planning-related tables that contain the ResourcePoolID\_SYS
  and SnapshotID\_SYS columns.
- To access more Resource Pool Owner information, use the Resource Pool Owner User ID column to join to the UserID\_SYS column from the Users table.

### **Load Order Examples:**

/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details')
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Resource
Pools')

### **Snapshot Resources**

This table contains information on snapshot resources used in Resource Planning.

Accessed by: /api/v2/Data/GetTableData('SGM SNAPSHOTS Resources')

Columns	Datatypes	Used for Joins
SnapshotID_SYS	Number	Yes
Resource Name	String	No
ResourceID_SYS	Number	Yes
Resource Pool Member User ID	Number	Yes
Resource Account Status	String	No
ResourcePoolID_SYS	Number	Yes

### How to join to other tables:

- **SnapshotID\_SYS** can be used to join to other snapshot-related tables that contain the **SnapshotID\_SYS** column.
- ResourceID\_SYS can be used in conjunction with the SnapshotID\_SYS column to join to other resource planning-related tables that contain the ResourceID\_SYS and SnapshotID\_SYS columns.
- ResourcePoolID\_SYS can be used in conjunction with the SnapshotID\_SYS column
  to join to other resource planning-related tables that contain the ResourcePoolID\_SYS
  and SnapshotID\_SYS columns.
- To access more Resource Pool Member information, use the Resource Pool Member User ID column to join to the UserID\_SYS column from the Users table.

### **Load Order Examples:**

/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details')
/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Resources')

### **Snapshot Resource Capacities**

This table contains information on snapshot resource capacities used in Resource Planning.

Accessed by: /api/v2/Data/SnapshotResourceCapacities

Columns	Datatypes	Used for Joins
SnapshotID_SYS	Number	Yes
Resource Capacity Start Date	Date	No
Resource Capacity End Date	Date	No
Resource Capacity	Number	No
Resource Capacity Unavailable	Number	No
ResourcePeriodID_SYS	Number	Yes
ResourceID_SYS	Number	Yes

### How to join to other tables:

**Load Order Examples:** 

- SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.
- ResourceID\_SYS can be used in conjunction with the SnapshotID\_SYS column to join to other resource planning-related tables that contain the ResourceID\_SYS and SnapshotID\_SYS columns.
- ResourcePeriodID\_SYS can be used to in conjunction with the SnapshotID\_SYS
  column to join to other resource planning-related tables that contain the
  ResourcePeriodID\_SYS and SnapshotID\_SYS columns.
- To access more information about the time period, use the ResourcePeriodID\_SYS
  column to join to the TimePeriodID\_SYS column from the Time Period table.

### /api/v2/Data/GetTimePeriodsData /api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Details') /api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Resource Pools')

/api/v2/Data/GetTableData('SGM\_SNAPSHOTS\_Resources')
/api/v2/Data/SnapshotResourceCapacities

### **Snapshot Resource Demands**

This table contains information on snapshot resource demands used in Resource Planning.

**Accessed by:** /api/v2/Data/ResourceDemands

Columns	Datatypes	Used for Joins
SnapshotID_SYS	Number	Yes
Resource Demand Project Name	String	No
Resource Demand Project Stage Name	String	No
Resource Demand Start Date	Date	No
Resource Demand End Date	Date	No
Resource Demand Type	String	No
Resource Demand Value	Number	No
Resource Demand is Active	String	No
ProjectID_SYS	Number	Yes
Resource Demand Project Phase ID	Number	Yes
Resource Demand Type ID	Number	No
ResourceID_SYS	Number	Yes
ResourcePeriodID_SYS	Number	Yes
Resource Demand Curve	String	No
Resource Demand Multiplier	Number	No

### How to join to other tables:

- ProjectID\_SYS can be used in conjunction with the SnapshotID\_SYS column to join to other project-related tables that contain the ProjectID\_SYS and SnapshotID\_SYS columns.
- SnapshotID\_SYS can be used to join to other snapshot-related tables that contain the SnapshotID\_SYS column.
- ResourceID\_SYS can be used in conjunction with the SnapshotID\_SYS column to join to other resource planning-related tables that contain the ResourceID\_SYS and SnapshotID\_SYS columns.

- ResourcePeriodID\_SYS can be used to in conjunction with the SnapshotID\_SYS column to join to other resource planning-related tables that contain the ResourcePeriodID\_SYS and SnapshotID\_SYS columns.
- Resource Demand Project Phase ID can be used in conjunction with the SnapshotID\_SYS and ProjectID\_SYS columns to join to other tables that contain the ProjectPhaseID\_SYS (or any other phase ID column), SnapshotID\_SYS and ProjectID\_SYS columns.
- To secure the data in this table, secure the snapshot data, then use the SnapshotID\_ SYS and SnapshotProjectID\_SYS columns to join to the SnapshotID\_SYS and SnapshotProjectID\_SYS columns from the Snapshot Project Details table.
- To access more information about the time period, use the ResourcePeriodID\_SYS
  column to join to the TimePeriodID\_SYS column from the Time Period table.

```
/api/v2/Data/GetSecurityUsersData
/api/v2/Data/GetSnapshotUserProjectAccessData
/api/v2/Data/GetTimePeriodsData
/api/v2/Data/GetTableData('SGM_SNAPSHOTS_Details')
/api/v2/Data/GetTableData('SGM_SNAPSHOTS_Project
Details')
/api/v2/Data/GetTableData('SGM_SNAPSHOTS_Resource
Pools')
/api/v2/Data/GetTableData('SGM_SNAPSHOTS_Resources')
/api/v2/Data/ResourceCapacities
/api/v2/Data/ResourceDemands
```

### **Custom Data Tables**

This is a general topic for all custom reporting tables that have been added to Accolade.

It is recommended to name these "Custom Table - < custom table name>" so that you can keep each reporting table separate.

Accessed by: /api/v2/Data/GetCustomTableData('systemName')

Columns	Datatypes	Used for Joins
Important! The columns and datatypes available in the reporting table will vary depending on your company's configuration.		

### How to join to other tables:

• Joining custom tables to other Accolade data will vary depending on your company's configuration.

## Load Order Examples: /api/v2/Data/GetCustomTableData('systemName') Important! Like join options, the load order examples will vary depending on your company's configuration.

