

Rollbase REST API

The Rollbase REST API is designed to enable integration between the Rollbase platform and external systems via REST calls. In order to use this API the client must have a valid Rollbase user account with login credentials: username and password. These credentials must be supplied as parameters to the login method, the first REST call to Rollbase, which is required to establish an API session. This call will return a session id, which must be used as the first parameter in all subsequent API calls. To end an API session, the logout method should always be used.

The Rollbase REST API uses the same permissions mechanism as the standard Rollbase user interface. API users must have permission to view, create, update, or delete records in order to perform these actions via API calls. Permissions cannot be set via the API. They can only be set by an Administrator using the Rollbase user interface in the Setup area.

The Rollbase REST API uses the same method names as Rollbase SOAP API. You can read more about the Rollbase SOAP API at <http://www.rollbase.com/webapi/wsd/WebservicesAPI.pdf>

REST API Calls

Each REST method can be accessed through URLs of the form:

http://www.rollbase.com/rest/api/{method_name}

Parameters to methods can be supplied as URL parameters for GET calls or in the HTTP request for POST calls. The Rollbase REST API will respond with an XML document containing the result of the call or an error message.

Example of a GET call:

<http://www.rollbase.com/rest/api/login?loginName=JohnSmith&password=welcome>

Response with success:

```
<?xml version="1.0" encoding="utf-8" ?>
<resp status="ok">
  <sessionId>rest-433533393144236162</sessionId>
</resp>
```

Response with error:

```
<?xml version="1.0" encoding="utf-8" ?>
<resp status="fail">
  <err>Login session is not found</err>
</resp>
```

API Documentation

login

Performs a user login and initiates an API session. This method must be called prior to any other API call.

API method name	login
HTTP method	GET
URL	http://www.rollbase.com/rest/api/login
URL Parameters	
loginName	Login name for an active Rollbase user account
password	User password
Output	Session ID, which must be used in all subsequent API calls during this session

Output example:

```
<?xml version="1.0" encoding="utf-8" ?>
<resp status="ok">
  <sessionId>rest-433533393144236162</sessionId>
</resp>
```

logout

Terminates the specified API session. This method should be called to explicitly end each Web API session.

API method name	logout
HTTP method	GET
URL	http://www.rollbase.com/rest/api/logout
URL Parameters	
sessionId	Session ID obtained at login
Output	Standard success or failure output.

Output example:

```
<?xml version="1.0" encoding="utf-8" ?>
<resp status="ok">
</resp>
```

getObjectDef

Retrieves the full description of a Rollbase Object Definition as an XML document. The XML schema for this document can be found at:

<http://www.rollbase.com/webapi/wsd/objectDescription.xsd>

API method name	getObjectDef
HTTP method	GET
URL	http://www.rollbase.com/rest/api/getObjectDef

URL Parameters	
sessionId	Session ID obtained at login
objName	Integration name for the object definition to retrieve
Output	XML document with object definition description

Output example:

```
<?xml version="1.0" encoding="utf-8" ?>
<resp status="ok">
  <DataObjectDef objName="person" >
    <SingularName>Person</SingularName>
    <PluralName>Persons</PluralName>
    <Description>Person</Description>
    <DataFieldDefs>
      <DataFieldDef fieldName="mobilePhone" groupName="CONTACT"
        dataName="FieldString" isRequired="no" isReadOnly="no"
        maxLength="50" >
        <DisplayLabel>Mobile Phone</DisplayLabel>
        <Description>Mobile Phone</Description>
      </DataFieldDef>
    </DataFieldDefs>
    <RelationshipDefs>
      <RelationshipDef relName="person_comm" objDef1="person"
        objDef2="COMMLOG" />
    </RelationshipDefs>
  </DataObjectDef>
</resp>
```

search

Performs a full-text search in the Rollbase database. The search query has the same syntax as that used in the standard Rollbase interface. (For more information on search syntax, see the Rollbase User Guide or the online Help system.)

API method name	search
HTTP method	GET
URL	http://www.rollbase.com/rest/api/search
URL Parameters	
sessionId	Session ID obtained at login
query	Query for full-text search
objName	Integration name for selected object definition. This parameter is optional and allows you to narrow the search to a specified object.
Output	Ids of all records found in the search, returned as an array of longs

Output example:

```
<resp status="ok">
  <ids>
    <id>314452</id>
```

```

        <id>128003</id>
    </ids>
</resp>

```

getUpdated

Retrieves an array of record ids of a specified object type, which were either created or updated within the given date/time interval.

API method name	getUpdated
HTTP method	GET
URL	http://www.rollbase.com/rest/api/getUpdated
URL Parameters	
sessionId	Session ID obtained at login
from	Beginning of date/time interval in ISO 8601 format
till	End of date/time interval in ISO 8601 format
objName	Integration name for object definition to search
Output	Ids of all records found in the search, returned as an array of longs

Output example:

```

<resp status="ok">
  <ids>
    <id>314452</id>
    <id>128003</id>
  </ids>
</resp>

```

getDataObj

Retrieves all field data for a given record.

API method name	getDataObj
HTTP method	GET
URL	http://www.rollbase.com/rest/api/getDataObj
URL Parameters	
sessionId	Session ID obtained at login
id	Record's id. (This id can be obtained using the search method)
Output	All of the field data for the specified object record, except for templates and formulas.

Output example:

```

<?xml version="1.0" encoding="utf-8" ?>
<resp status="ok">
  <data id="131227" objName="person">
    <field name="id">131227</field>
    <field name="club_member">>false</field>
    <field name="lastName">Smith</field>
  </data>
</resp>

```

```

        <field name="status">Created</field>
        <field name="updatedAt">20080111T143331Z</field>
    </data>
</resp>

```

getDataField

Retrieves the value of a single field from a specific record.

API method name	getDataField
HTTP method	GET
URL	http://www.rollbase.com/rest/api/getDataField
URL Parameters	
sessionId	Session ID obtained at login
id	Record's id. (If necessary this id can be obtained using the search method)
fieldName	Field's integration name
Output	Field's value.

Output example:

```

<?xml version="1.0" encoding="utf-8" ?>
<resp status="ok">
    <field name="status">Created</field>
</resp>

```

getBinaryData

Retrieves the binary data (file attachment) associated with a particular file field from a specific record.

API method name	getBinaryData
HTTP method	GET
URL	http://www.rollbase.com/rest/api/getBinaryData
URL Parameters	
sessionId	Session ID obtained at login
id	Record's id. (If necessary this id can be obtained using the search method)
fieldName	File field's integration name
Output	Binary data (file attachment) from specified file field. Content type and length of output will be set according to attachment's data.

getRelationships

Retrieves an array of related record ids.

API method name	getRelationships
HTTP method	GET

URL	http://www.rollbase.com/rest/api/getRelationships
URL Parameters	
sessionId	Session ID obtained at login
id	Record's id. (If necessary this id can be obtained using the search method)
relName	Relationship's integration name
Output	Ids of related records

Output example:

```
<resp status="ok">
  <ids>
    <id>314452</id>
    <id>128003</id>
  </ids>
</resp>
```

create

Creates a new record.

API method name	create
HTTP method	POST
URL	http://www.rollbase.com/rest/api/create
Request Body	XML document containing object name and fields for new record (see example below).
Output	Id of newly created record as a long wrapped in XML document (see example below).

Input example:

```
<?xml version="1.0" encoding="utf-8" ?>
<data objName="person">
  <field name="club_member">false</field>
  <field name="lastName">Smith</field>
  <field name="status">Created</field>
</data>
```

Output example:

```
<resp status="ok">
  <data id="314452"/>
</resp>
```

update

Updates an existing record.

API method name	update
HTTP method	POST
URL	http://www.rollbase.com/rest/api/update

Request Body	XML document valid record id and data fields to be updated (see example below). You only need to include the fields that should be changed, all fields not included will remain unchanged.
Output	Standard success or failure output.

Input example:

```
<?xml version="1.0" encoding="utf-8" ?>
<data id="314452">
  <field name="club_member">false</field>
  <field name="lastName">Smith</field>
  <field name="status">Created</field>
</data>
```

Output example:

```
<resp status="ok">
</resp>
```

delete

Moves the specified record to the Recycle Bin.

API method name	delete
HTTP method	GET
URL	http://www.rollbase.com/rest/api/delete
URL Parameters	
sessionId	Session ID obtained at login
id	Record's id. (If necessary this id can be obtained using the search method)
Output	Standard success or failure output.