



**API Reference Guide  
Version 17**

May 2018



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# Getting Started

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This document provides details useful when designing, programming, deploying, and troubleshooting Web-enabled applications for your Oracle Instantis EnterpriseTrack account.

EnterpriseTrack includes an Integration module that allows you to create customized applications that:

- ▶ Obtain activity assignment data
- ▶ Obtain the Project Finances Element Monthly Detail report
- ▶ Update activity data
- ▶ Update effort data
- ▶ Get finance data
- ▶ Enable automatic data uploads
- ▶ Perform CRUD (create, read, update, and delete) operations related to ideas, proposals, project, project finance, resource, resource rate, activity WBS, non-WBS activity, and assignments.
- ▶ Generate Timesheet Detail Report programmatically.

This document also includes details on preconfigured, web-enabled reports that do not require any software development (programming) effort.

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**Note:** You can use the APIs when the EnterpriseTrack system is in either Production or UAT mode.

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## Recommendations

Before developing any Web service software, you should be familiar with:

- ▶ A programming language or environment for developing Web service applications
- ▶ The fundamentals of Web services (for an overview, go to <http://www.w3schools.com/webservices/default.asp> (see <http://www.w3schools.com/webservices/default.asp> - <http://www.w3schools.com/webservices/default.asp>))
- ▶ The JSON data format (for an overview, go to <http://www.w3schools.com/json/default.asp> (see <http://www.w3schools.com/json/default.asp> - <http://www.w3schools.com/json/default.asp>))

## Requirements

Before developing any EnterpriseTrack-specific Web service software, you should:

- ▶ Be familiar with the EnterpriseTrack product, especially those areas you want to manipulate using the Integration functions.
- ▶ Confirm that you have a valid EnterpriseTrack integration user account (login ID and password).
- ▶ To use the financial report related integration function, verify that you have permission to execute the financial report from an interactive session.
- ▶ To use the Timesheet Detail report related integration function, verify that you have permission to execute the timesheet report from an interactive session.
- ▶ To use CRUD functions, ensure you also have permissions to generate the templates from the EnterpriseTrack Administration module.
- ▶ To update effort or activity using the integration functions, verify that you have permission to update activities for the project.
- ▶ Verify that you have the **Execute APIs** permission.
- ▶ If invoking the function for someone other than yourself, verify that you have the **Execute APIs as Proxy** permission.
- ▶ To update effort using the Integration functions, also verify the following:
  - ▶ If you will be updating efforts for yourself, verify that you have the necessary permissions required to perform this operation interactively.
  - ▶ If you will be updating efforts for someone other than yourself, verify that you have the necessary permissions required to perform this operation interactively.

---

**Note:** The other Integration functions can be successfully invoked *only* after the Login function is successful. Once you are logged in, you can invoke any number of Integration functions. POST is the only recommended option. When you are finished with your Web service interactions you should invoke the Logout function. In the event you fail to log out, you will automatically be logged out after the same period of inactivity as an interactive session.

---

## Security

Only valid EnterpriseTrack users can use the integration APIs. User authentication and application level security for the APIs are similar to what is used by the EnterpriseTrack web interface. You can set the authentication type to SSO, LDAP, or SSPLM, as per your configuration. Access to various entities is driven by permissions which are set at the title and the role levels through the Administration module. If users without the required permissions attempt to use the APIs, the system sends an error message in the response XML or JSON.

SSL is used for network security. EnterpriseTrack integration APIs require https.

# Using the Oracle Instantis EnterpriseTrack API

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## Where to Begin

### Step 1: Install and configure Oracle Instantis EnterpriseTrack for the API

As a prerequisite to using the API, you will need to install Oracle Instantis EnterpriseTrack and configure a user with the appropriate permissions in the application. Oracle Instantis EnterpriseTrack must be correctly installed, configured, and running before you can use the API to connect to it.

### Step 2: Decide on a client technology

Decide on the client technology that you will use with Oracle Instantis EnterpriseTrack to invoke APIs. Java and JavaScript are examples of technologies that can invoke services to interact with the Oracle Instantis EnterpriseTrack API.

### Step 3: Use the API to interact with Oracle Instantis EnterpriseTrack

This step involves interacting with the API using the following URL pattern to send requests to the API.

`https://<server>/SiteWand/Submission/<account_name>/integration/login`

For more information, see **Function Invocation** (on page 9).

Generally, calls to the API will follow a sequence similar to the following sequence:

- a) Get a session ID.
- b) Use the session ID to invoke other operations as required by your program.
- c) Delete the session ID when you are finished.

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## Function Invocation

All programmable functions are invoked using a SiteWand symbolic submission. Invocation details for non-programmable capabilities are described in the section.

An integration login relies on the following path:

`https://<server>/SiteWand/Submission/<account_name>/integration/login`

Once successfully logged in, the integration functions rely on the following path:

<api\_session>

where:

| Placeholder    | Description                                                                                                                                                                                                                                       |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <server>       | Specifies the IP address or hostname of the server hosting your EnterpriseTrack instance.                                                                                                                                                         |
| <account_name> | Specifies the account name (or company name) of your EnterpriseTrack instance.                                                                                                                                                                    |
| <api_session>  | Specifies the session URL associated with your Integration login. This value is obtained when successfully completing a Login function and the value is similar to the following.<br><br>https://ABC.example.com/Sitewand/Submission/F_xer34afd2f |

The invocation parameters for each function are provided as detailed for each function.

---

**Note:** The /Sitewand/Submission portion of the URL *is* case sensitive.

---

## Invocation Parameters

The parameters for the invocation of the Login function are described in the following table. Unless otherwise specified, all values are not case sensitive.

| Name          | Data Type | Placeholder or Constant | Description                                                                                                                                                                                                     |
|---------------|-----------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| api_name      | String    | <api_name>              | Specifies the name of the API. For CRUD APIs, use crud_api.                                                                                                                                                     |
| output_type   | String    | <output_type>           | Specifies the data format for the output. Supported formats include: <ul style="list-style-type: none"><li>▶ JSON</li><li>▶ XML</li></ul> <b>Note:</b> Functions prior to Release 8.7 support only JSON format. |
| user_login_id | String    | <login_id>              | Specifies your EnterpriseTrack login ID. The case sensitivity for this value conforms to that used by your EnterpriseTrack system.                                                                              |
| password      | String    | <pwd>                   | Specifies the password corresponding to your EnterpriseTrack login ID.                                                                                                                                          |

|  |  |  |                                                                                           |
|--|--|--|-------------------------------------------------------------------------------------------|
|  |  |  | The case sensitivity for this value conforms to that used by your EnterpriseTrack system. |
|--|--|--|-------------------------------------------------------------------------------------------|

## Global Properties Object

Most of the functions rely on input parameters to specify the search criteria (filter data), or to provide the updates to the EnterpriseTrack data. Conversely, many of the functions rely on output parameters as the mechanism to deliver those results.

To ensure compatibility with the configuration of EnterpriseTrack, the `global_properties` object is included in this collection of parameters. The settings specified in this object perform the necessary translations of the data (specified by the other parameters) into the formats compatible with EnterpriseTrack.

Since the majority of the functions use JSON data format, the details are presented in the following table as name/value pairs. Unless otherwise specified, all values are not case sensitive.

| Name        | Data Type | Value Required?                       | Placeholder or Constant | Description                                                                                                                                                                        |
|-------------|-----------|---------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| api_version | String    | Yes                                   | et-integration-api-1.0  | Specifies the version number of the Integration API software.                                                                                                                      |
| char_set    | String    | Yes                                   | <char_set>              | Specifies the character set that EnterpriseTrack is deployed on.<br>Typically, <code>utf-8</code> is specified.                                                                    |
| date_format | String    | Optionally required (see description) | <date_format>           | Required only if date parameters are used by the Integration function.<br>Specifies the date format that EnterpriseTrack uses.<br>Typically, <code>yyyy/MM/dd</code> is specified. |
| effort_unit | String    | Not applicable                        | <effort_unit>           | Output parameter.<br>Specifies the unit of measurement for effort.                                                                                                                 |

|          |        |    |        |                                                                                                                                                   |
|----------|--------|----|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| language | String | No | <lang> | <p>Specifies the language that EnterpriseTrack uses.</p> <p>If no value is specified, the language is set to that used for the Login session.</p> |
|----------|--------|----|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|

# Login Function

The Login function provides the necessary authentication data to your EnterpriseTrack account and, if successful, starts your Web services session.

The other Integration functions can be successfully invoked *only* after the Login function is successful. Once you are logged in, you can invoke any number of Integration functions. POST is the only recommended option. When you are finished with your Web service interactions you should invoke the Logout function. In the event you fail to log out, you will automatically be logged out after the same period of inactivity as an interactive session.

**Note:** You may have any number and combination of interactive (browser) and Web services sessions.

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## Invocation Syntax

The syntax for the invocation of the Login function is as follows:

```
https://<server>/SiteWand/Submission/<account_name>/integration/  
login?api_name=login&output_type=<output_type>&user_login_id=<login_id>
```

## Invocation Parameters

The parameters for the invocation of the Login function are described in the following table. Unless otherwise specified, all values are not case sensitive.

| Name         | Data Type | Placeholder or Constant | Description                                                                                                                                                                                                     |
|--------------|-----------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| api_name     | String    | <api_name>              | Specifies the name of the API. For CRUD APIs, use crud_api.                                                                                                                                                     |
| output_type  | String    | <output_type>           | Specifies the data format for the output. Supported formats include: <ul style="list-style-type: none"><li>▶ JSON</li><li>▶ XML</li></ul> <b>Note:</b> Functions prior to Release 8.7 support only JSON format. |
| user_login_i | String    | <login_id>              | Specifies your EnterpriseTrack login ID.                                                                                                                                                                        |

|          |        |       |                                                                                                                                                                     |
|----------|--------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| d        |        |       | The case sensitivity for this value conforms to that used by your EnterpriseTrack system.                                                                           |
| password | String | <pwd> | Specifies the password corresponding to your EnterpriseTrack login ID.<br>The case sensitivity for this value conforms to that used by your EnterpriseTrack system. |

## Output Parameters

The results of the Login function are provided in JSON data format. The following table details the name/value pairs.

| Name          | Data Type | Description                                                                                                                                                                                     |
|---------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| result_code   | String    | Provides the result code for the completion status of the function.                                                                                                                             |
| result_reason | String    | If the function is successful, NULL results. Otherwise, the reason for the error is returned.                                                                                                   |
| api_url       | String    | If the function is successful, the session URL is returned. Otherwise, NULL is returned.<br>The <api_session> value that is returned is used by each of the programmable integration functions. |

## Output Examples

The results from a successful Login are similar to the following:

```
{
  "result_code": "SUCCESS",
  "result_reason": "",
  "api_url": "https://ABC.example.com/SiteWand/Submission/F_xer34afd"
}
```

The results from a failed Login are similar to the following:

```
{
  "result_code": "ERR_AUTHENTICATION",
  "result_reason": "You specified invalid login information."
  "api_url": "",
}
```

# Logout Function

---

The Logout function terminates your Web services session. This function should always be invoked when you have concluded your Web-service based interactions with your EnterpriseTrack account. In the event you fail to log out, you will automatically be logged out after the same period of inactivity as an interactive session.

| Name     | Data Type | Placeholder or Constant | Description                                     |
|----------|-----------|-------------------------|-------------------------------------------------|
| api_name | String    | logout                  | Specifies the name of the Integration function. |

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### Invocation Syntax

The syntax for the invocation of the Logout function is as follows:

<api\_session>?api\_name=logout

---

**Note:** There are no input or output parameters for the Logout function.

---

### Output Example

If the Logout function is successful, you are merely logged out of your current Web services session.



# CRUD APIs

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## Using CRUD APIs

### Step 1: Log in and get session ID

For more information see:

**Using the Oracle Instantis EnterpriseTrack API** (on page 9)

**Login Function** (on page 13)

### Step 2: Invoke Session URL for XML/JSON Posting

Before invoking a CRUD API, ensure that you have downloaded a CRUD template and prepared your XML/JSON for posting. For more information, see:

**Downloading Templates** (on page 18)

**Preparing XML/JSON**

For more information on invoking all supported CRUD APIs, see:

**Support Objects**

### Step 3: Log out of the session

For more information see:

**Logout Function** (on page 15)

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## Downloading Templates

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## Downloading CRUD Templates from the User Interface

The **Data Import and Export** tab in the EnterpriseTrack Administration module enables you to download templates in real-time for a project, finance, resource, team member, WBS, non\_WBS, and assignment entities, based on your EnterpriseTrack account configuration.

To download the CRUD templates:

- 1) Log in to EnterpriseTrack with valid credentials.
- 2) From the Top Navigation bar, select **Go To > Administration**.
- 3) Click the **Data Import & Export** tab.
- 4) Click the **Download Data Integration Templates** link.
- 5) Select values for the following fields from the corresponding drop-down list:
  - ▶ **Languages:** Select your language. English is displayed by default.
  - ▶ **Data Format:** Select the data format in which the function is to be rendered. Choices include: JSON, and XML.
  - ▶ **Type:** Select **Download Template** as the type of template to be downloaded.
  - ▶ **Initiative:** Select the initiative, if you are downloading a template for project, team member, activity WBS or activity non WBS entities.
  - ▶ **Finance Template:** Select the finance template, if you are downloading a template for Project Finance Data or Project Finance Snapshot Data entities.
  - ▶ **Activity Type Name:** Select the activity type, if you are downloading a template for Activity WBS or Activity Non WBS entities.
- 6) Select the **Download** button for the corresponding function. A create\_request, update\_request, search\_request and delete\_request file will be generated.

---

**Note:** You must download a new template every time a configuration change is made to your account.

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## Downloading the Template Programmatically

Follow the steps below if you are downloading the template Programmatically:

### Step 1: Download Request for Template

- 1) Log in to EnterpriseTrack with valid credentials.
- 2) From the Top Navigation bar, select **Go To > Administration**.
- 3) Click the **Data Import & Export** tab.
- 4) Click the **Download Data Integration Templates** link.
- 5) Select values for the following fields from the corresponding drop-down list:
  - ▶ **Languages:** Select your language. English is displayed by default.
  - ▶ **Data Format:** Select the data format in which the function is to be rendered. Choices include: JSON, and XML.
  - ▶ **Type:** Select **Download Request for Template**. Generates a request template in XML and JSON formats for each CRUD function. These request templates can be used to specify input data in the relevant CRUD function.
  - ▶ **Initiative:** Select the initiative, if you are downloading a template for project, team member, activity WBS or activity non WBS entities.
  - ▶ **Finance Template:** Select a finance template if you are downloading a template for the Project Finance Data or Project Finance Snapshot Data entities.
  - ▶ **Activity Type Name:** Select the activity type if you are downloading a template for the Activity WBS or the Activity Non WBS entities.
- 6) Select the **Download** button for the corresponding function. The following files will be generated: create\_request\_template, update\_request\_template, search\_request\_template and delete\_request\_template. You can use these files to specify input data for the relevant CRUD function.

### Step 2: Post to Session URL

You must post the downloaded request templates to the session URL for the most up to date template.

### Request Format

JSON and XML

### Syntax

```
<api_session>?request_data=<input_data>&request_format  
=<request_format>
```

### Invocation Example

```
<api_session>?request_data=<tags specified in create_template,  
update_template, search_template, or  
delete_template.xml>&request_format=xml
```

```
<api_session>?request_data=<tags specified in create_template,  
update_template, search_template, or  
delete_template.json>&request_format=json
```

### Related Topics

**Using the Oracle Instantis EnterpriseTrack API** (on page 9)

**Login Function** (on page 13)

**Logout Function** (on page 15)

---

## Functions to Request Templates Programmatically

### Ideas

| Function            | Description                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| create_tem<br>plate | Retrieves a template for creating an idea. This can be used to define data for creating an idea in EnterpriseTrack.   |
| update_te<br>mplate | Retrieves a template for updating an idea. This can be used to define data for updating an idea in EnterpriseTrack.   |
| search_tem<br>plate | Retrieves a template for searching an idea. This can be used to define data for searching an idea in EnterpriseTrack. |
| delete_tem<br>plate | Retrieves a template for deleting an idea. This can be used to define data for deleting an idea in EnterpriseTrack.   |

### Proposals

| Function            | Description                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| create_tem<br>plate | Retrieves a template for creating a proposal. This can be used to define data for creating a proposal in EnterpriseTrack.   |
| update_te<br>mplate | Retrieves a template for updating a proposal. This can be used to define data for updating a proposal in EnterpriseTrack.   |
| search_tem<br>plate | Retrieves a template for searching a proposal. This can be used to define data for searching a proposal in EnterpriseTrack. |
| delete_tem<br>plate | Retrieves a template for deleting a proposal. This can be used to define data for deleting a proposal in EnterpriseTrack.   |

**Proposal Finance Data**

| Function        | Description                                            |
|-----------------|--------------------------------------------------------|
| search_template | Retrieves a template for searching a proposal finance. |

**Project**

| Function        | Description                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| create_template | Retrieves a template for creating a project. This can be used to define data for creating a project in EnterpriseTrack.   |
| update_template | Retrieves a template for updating a project. This can be used to define data for updating a project in EnterpriseTrack.   |
| search_template | Retrieves a template for searching a project. This can be used to define data for searching a project in EnterpriseTrack. |
| delete_template | Retrieves a template for deleting a project. This can be used to define data for deleting a project in EnterpriseTrack.   |

**Project Finance**

| Function        | Description                                         |
|-----------------|-----------------------------------------------------|
| update_template | Retrieves a template for updating project finance.  |
| search_template | Retrieves a template for searching project finance. |

**Project Finance Structure**

| Function        | Description                                                     |
|-----------------|-----------------------------------------------------------------|
| search_template | Retrieves a template for searching a project finance structure. |

**Project Finance Snapshot**

| Function        | Description                                                   |
|-----------------|---------------------------------------------------------------|
| create_template | Retrieves a template for creating a project finance snapshot. |

|                 |                                                                |
|-----------------|----------------------------------------------------------------|
| update_template | Retrieves a template for updating a project finance snapshot.  |
| search_template | Retrieves a template for searching a project finance snapshot. |
| delete_template | Retrieves a template for deleting a project finance snapshot.  |

### Resource

| Function        | Description                                    |
|-----------------|------------------------------------------------|
| create_template | Retrieves a template for creating a resource.  |
| update_template | Retrieves a template for updating a resource.  |
| search_template | Retrieves a template for searching a resource. |
| delete_template | Retrieves a template for deleting a resource.  |

### Resource Rate

| Function        | Description                                         |
|-----------------|-----------------------------------------------------|
| create_template | Retrieves a template for creating a resource rate.  |
| update_template | Retrieves a template for updating a resource rate.  |
| search_template | Retrieves a template for searching a resource rate. |

### Team Member

| Function        | Description                                              |
|-----------------|----------------------------------------------------------|
| create_template | Retrieves a template for creating a project team member. |
| update_template | Retrieves a template for updating a project team member. |

|                 |                                                           |
|-----------------|-----------------------------------------------------------|
| search_template | Retrieves a template for searching a project team member. |
| delete_template | Retrieves a template for deleting a project team member.  |

### Activity WBS

| Function        | Description                                                |
|-----------------|------------------------------------------------------------|
| create_template | Retrieves a template for creating a project WBS activity.  |
| update_template | Retrieves a template for updating a project WBS activity.  |
| search_template | Retrieves a template for searching a project WBS activity. |
| delete_template | Retrieves a template for deleting a project WBS activity.  |

### Activity Non-WBS

| Function        | Description                                            |
|-----------------|--------------------------------------------------------|
| create_template | Retrieves a template for creating a non-WBS activity.  |
| update_template | Retrieves a template for updating a non-WBS activity.  |
| search_template | Retrieves a template for searching a non-WBS activity. |
| delete_template | Retrieves a template for deleting a non-WBS activity.  |

### Assignment

| Function        | Description                                             |
|-----------------|---------------------------------------------------------|
| create_template | Retrieves a template for creating a project assignment. |
| update_template | Retrieves a template for updating a project assignment. |

|                 |                                                          |
|-----------------|----------------------------------------------------------|
| search_template | Retrieves a template for searching a project assignment. |
| delete_template | Retrieves a template for deleting a project assignment.  |

---

## Preparing XML/JSON

After downloading the CRUD templates, you must merge data and make other changes specific to your account before posting it to the session.

When updating finance data or finance snapshot, note the following:

After downloading the template for finance, you must copy the structure based on the project finance edit mode.

- ▶ If the project finance edit mode is Aggregate, copy the whole structure once under the `<data_aggregate>` tag.
- ▶ If the project finance edit mode is Monthly, copy and repeat the whole structure for each month in the `<data_YYYYMM>` tag. The value for MM (months) will depend on the project dates and the month for which data is being updated.
- ▶ If the project finance edit mode is Yearly, copy and repeat the whole structure for each year in the `<data_YYYY>` tag. The value for YYYY (years) will depend on the project dates and the year for which data is being updated.

## Invocation Parameters

The parameters for the invocation of the create function are described in the following table. Unless otherwise specified, all values are not case-sensitive.

| Name           | Data Type | Placeholder or constant             | Description                                                                                                                     |
|----------------|-----------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Request_data   | String    | <code>&lt;input_data&gt;</code>     | Specifies the input data for creating a project. For more details, See the Input Parameters.                                    |
| Request_format | String    | <code>&lt;request_format&gt;</code> | The data format of the request. Supported formats include: <ul style="list-style-type: none"><li>▶ JSON</li><li>▶ XML</li></ul> |

## Input Parameters

The parameters described in the following table provide the data to be specified. This information should be provided in JSON or XML file format. Unless otherwise specified, all values are not case-sensitive.

| Name                      | Data Type | Value Required? | Placeholder or Constant            | Description                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|-----------|-----------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| global_properties         | Object    | Yes             | Not applicable                     | This object lists the global settings for your EnterpriseTrack instance.                                                                                                                                                                                                                                                                              |
| request_data              | Object    | Yes             | Not applicable                     | This object lists a fixed set of request attributes. See <i>Request_Data Table</i> below for more details.                                                                                                                                                                                                                                            |
| application_data          | Object    | Yes             | Not applicable                     | The application data depends on the configuration of your EnterpriseTrack account. To work with application data that is most current and accurate in real time, you must download the template from your EnterpriseTrack Administration module. For more details, see <b><i>Downloading CRUD Templates from the User Interface</i></b> (on page 18). |
| <b>Request_Data Table</b> |           |                 |                                    |                                                                                                                                                                                                                                                                                                                                                       |
| Request_type              | String    | Yes             | create, update, search, and delete | The name of the function.                                                                                                                                                                                                                                                                                                                             |

| Name            | Data Type | Value Required? | Placeholder or Constant                                                                                                                                                       | Description                                                                                                                       |
|-----------------|-----------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Entity_type     | String    | Yes             | idea, proposal, project, project_finance, project_finance_structure, project_finance_snapshot, resource, resource_rate, activity, activity_nonwbs, teammember, and assignment | The type of entity.                                                                                                               |
| Output_format   | String    | Yes             |                                                                                                                                                                               | The data format of the output. Supported formats include: <ul style="list-style-type: none"> <li>▶ JSON</li> <li>▶ XML</li> </ul> |
| Value_delimiter | String    | Yes             |                                                                                                                                                                               | The delimiter to be used to parse all strings in the input and output. For example,   or comma.                                   |

## Supported Objects

| Supported Objects                             | Supported Operations               | Request Format |
|-----------------------------------------------|------------------------------------|----------------|
| <b>Ideas</b> (on page 27)                     | Create, Update, Delete, and Search | JSON and XML   |
| <b>Proposals</b> (on page 30)                 | Create, Update, Delete, and Search | JSON and XML   |
| <b>Proposal Finance Data</b>                  | Update and Search                  | JSON and XML   |
| <b>Projects</b> (on page 35)                  | Create, Update, Delete, and Search | JSON and XML   |
| <b>Project Finance</b> (on page 38)           | Search, and Update                 | JSON and XML   |
| <b>Project Finance Structure</b> (on page 40) | Search                             | JSON and XML   |

|                                              |                                    |              |
|----------------------------------------------|------------------------------------|--------------|
| <b>Project Finance Snapshot</b> (on page 40) | Create, Update, Search, and Delete | JSON and XML |
| <b>Resource</b> (on page 44)                 | Create, Search, Update, and Delete | JSON and XML |
| <b>Resource Rate</b> (on page 47)            | Create, Search, and Update         | JSON and XML |
| <b>Team Member</b> (on page 49)              | Create, Search, Update, and Delete | JSON and XML |
| <b>Activity WBS</b> (on page 52)             | Create, Search, Update, and Delete | JSON and XML |
| <b>Activity Non-WBS</b> (on page 55)         | Create, Search, Update, and Delete | JSON and XML |
| <b>Assignments</b> (on page 58)              | Create, Search, Update, and Delete | JSON and XML |

## Ideas

### In This Section

|                      |    |
|----------------------|----|
| Create an Idea ..... | 27 |
| Update an Idea.....  | 28 |
| Search an Idea.....  | 29 |
| Delete an Idea.....  | 29 |

### Create an Idea

Creates an idea in EnterpriseTrack.

#### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

## Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/idea\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/idea_create.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/idea\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/idea_create.html)

## Update an Idea

The update function allows you to update an idea in EnterpriseTrack.

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

## Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/idea\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/idea_update.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/idea\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/idea_update.html)

## Search an Idea

The search function allows you to search for an idea in EnterpriseTrack.

### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/idea\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/idea_search.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/idea\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/idea_search.html)

## Delete an Idea

The delete function allows you to delete an idea in EnterpriseTrack.

### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

## Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/idea\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/idea_delete.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/idea\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/idea_delete.html)

## Proposals

### In This Section

---

|                            |    |
|----------------------------|----|
| Create a Proposal .....    | 30 |
| Update a Proposal.....     | 31 |
| Search a Proposal.....     | 31 |
| Delete a Proposal.....     | 32 |
| Proposal Finance Data..... | 33 |

## Create a Proposal

Creates a proposal in EnterpriseTrack.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/charter\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/charter_create.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/charter\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/charter_create.html)

## Update a Proposal

The update function allows you to update a proposal in EnterpriseTrack.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/charter\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/charter_update.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/charter\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/charter_update.html)

## Search a Proposal

The search function allows you to search for a proposal in EnterpriseTrack.

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/charter\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/charter_search.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/charter\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/charter_search.html)

## Delete a Proposal

The search function allows you to delete a proposal in EnterpriseTrack.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/charter\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/charter_delete.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/charter\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/charter_delete.html)

## Proposal Finance Data

### In This Section

|                                   |    |
|-----------------------------------|----|
| Search Proposal Finance Data..... | 33 |
| Update Proposal Finance Data..... | 34 |

### Search Proposal Finance Data

The search function allows you to search finance data for a proposal in EnterpriseTrack. The output returns the finance data in both the default currency and project currency.

**Note:** You can pass more than one Proposal ID. In addition, you can filter to look for non-zero records and use the last updated date filters to narrow your search.

### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/proposal\\_finance\\_data\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/proposal_finance_data_search.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/proposal\\_finance\\_data\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/proposal_finance_data_search.html)

---

## Update Proposal Finance Data

The update function allows you to update finance data for a Proposal in EnterpriseTrack. Update is based on the finance edit mode.

- If the finance edit mode is Aggregate, copy the whole structure once under the <data\_aggregate> tag.
- If the finance edit mode is Monthly, copy and repeat the whole structure for each month in the <data\_YYYYMM> tag. The value for MM (months) will depend on the project dates and the month for which data is being updated.
- If the project finance edit mode is Yearly, copy and repeat the whole structure for each year in the <data\_YYYY> tag. The value for YYYY (years) will depend on the project dates and the year for which data is being updated.

---

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text" name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/proposal\\_finance\\_data\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/proposal_finance_data_update.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/proposal\\_finance\\_data\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/proposal_finance_data_update.html)

## Projects

### In This Section

|                        |    |
|------------------------|----|
| Create a Project ..... | 35 |
| Update a Project.....  | 36 |
| Delete a Project.....  | 36 |
| Search a Project.....  | 37 |

## Create a Project

Creates a project in EnterpriseTrack.

**Note:** Updating team members is not supported.

### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### *XML Example*

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/project\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/project_create.html)

### *JSON Example*

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/project\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/project_create.html)

## Update a Project

The update function allows you to update a project in EnterpriseTrack.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

*Invocation Parameters* (on page 24)

*Global Properties Object* (on page 11)

*Input Parameters* (on page 25)

## Input Examples

### *XML Example*

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/project\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/project_update.html)

### *JSON Example*

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/project\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/project_update.html)

## Delete a Project

The delete function allows you to delete a project in EnterpriseTrack.

### Request Format

JSON and XML

**Syntax**

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

**Related Topics**

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

**Input Examples****XML Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/project\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/project_delete.html)

**JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/project\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/project_delete.html)

**Search a Project**

The search function allows you to search for a project in EnterpriseTrack.

**Request Format**

JSON and XML

**Syntax**

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

**Related Topics**

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/project\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/project_search.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/project\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/project_search.html)

## Project Finance

### In This Section

---

|                           |    |
|---------------------------|----|
| Search Finance Data.....  | 38 |
| Update Finance Data ..... | 39 |

### Search Finance Data

The search function allows you to search finance data for a project in EnterpriseTrack. The output returns the project finance data is both the default finance currency and the project currency.

---

**Note:** You can pass more than one Project ID. In addition, you can filter to look for non-zero records and use the last updated date filters to narrow your search.

---

### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/finance\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/finance_search.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/finance\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/finance_search.html)

## Update Finance Data

The update function allows you to update finance data for a project in EnterpriseTrack. Update is based on the project finance edit mode.

- If the project finance edit mode is Aggregate, copy the whole structure once under the <data\_aggregate> tag.
- If the project finance edit mode is Monthly, copy and repeat the whole structure for each month in the <data\_YYYYMM> tag. The value for MM (months) will depend on the project dates and the month for which data is being updated.
- If the project finance edit mode is Yearly, copy and repeat the whole structure for each year in the <data\_YYYY> tag. The value for YYYY (years) will depend on the project dates and the year for which data is being updated.

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

## Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/finance\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/finance_update.html)

**JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/finance\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/finance_update.html)

## Project Finance Structure

### In This Section

---

Search a Finance Structure ..... 40

### Search a Finance Structure

The search function allows you to retrieve the finance structure for a project in EnterpriseTrack.

**Request Format**

JSON and XML

**Syntax**

```
<form action="api\_url" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

**Related Topics**

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

**Input Examples****XML Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/finance\\_structure\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/finance_structure_search.html)

**JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/financestructure\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/financestructure_search.html)

## Project Finance Snapshot

This object contains finance data for a given snapshot. A project can have multiple finance snapshots, which are identified by unique name.

## In This Section

|                                 |    |
|---------------------------------|----|
| Create a Finance Snapshot.....  | 41 |
| Update a Finance Snapshot ..... | 41 |
| Search a Finance Snapshot ..... | 42 |
| Delete a Finance Snapshot ..... | 43 |

### Create a Finance Snapshot

The Create function allows you to create a project finance snapshot. You can create multiple project snapshots.

#### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

#### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

#### Input Examples

##### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/finance\\_snapshot\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/finance_snapshot_create.html)

##### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/finance\\_snapshot\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/finance_snapshot_create.html)

### Update a Finance Snapshot

The update function allows you to update a project finance snapshot in EnterpriseTrack. Project finance snapshot update consists of two parts:

- ▶ Snapshot metadata: Snapshot description or *is\_default\_snapshot* can be updated unconditionally.

- ▶ Snapshot finance data: This is driven by feature *is\_snapshot\_editable*. If feature is disabled, you cannot update finances for snapshot.

---

**Note:** After downloading the template for finance, you must copy the structure based on the project finance edit mode.

- If the project finance edit mode is Aggregate, copy the whole structure once under the `<data_aggregate>` tag.
  - If the project finance edit mode is Monthly, copy and repeat the whole structure for each month in the `<data_YYYYMM>` tag. The value for MM (months) will depend on the project dates and the month for which data is being updated.
  - If the project finance edit mode is Yearly, copy and repeat the whole structure for each year in the `<data_YYYY>` tag. The value for YYYY (years) will depend on the project dates and the year for which data is being updated.
- 

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/finance\\_snapshot\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/finance_snapshot_update.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/finance\\_snapshot\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/finance_snapshot_update.html)

## Search a Finance Snapshot

The search function allows you to search for a finance snapshot. If no snapshot is specified, then the API returns all snapshot data for the project.

---

**Note:** You can pass more than one Project ID. In addition, you can filter to look for non-zero records and use the last updated date filters to narrow your search.

---

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

*Invocation Parameters* (on page 24)

*Global Properties Object* (on page 11)

*Input Parameters* (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/finance\\_snapshot\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/finance_snapshot_search.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/finance\\_snapshot\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/finance_snapshot_search.html)

## Delete a Finance Snapshot

The delete function allows you to delete a project finance snapshot in EnterpriseTrack.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

## Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/finance\\_snapshot\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/finance_snapshot_delete.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/finance\\_snapshot\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/finance_snapshot_delete.html)

## Resource

### In This Section

---

|                         |    |
|-------------------------|----|
| Create a Resource ..... | 44 |
| Search a Resource.....  | 45 |
| Update a Resource ..... | 45 |
| Delete a Resource.....  | 46 |

## Create a Resource

The Create function allows you to create a resource in EnterpriseTrack. This resource object contains resource information related to organization, type, location, preferences, authentication, and custom fields.

### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

## Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/resource\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/resource_create.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/resource\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/resource_create.html)

## Search a Resource

The search function allows you to get existing resource rate records.

### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text" name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/resource\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/resource_search.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/resource\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/resource_search.html)

## Update a Resource

The Update function allows you to edit existing resource records.

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/resource\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/resource_update.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/resource\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/resource_update.html)

## Delete a Resource

The Delete function allows you to delete existing resource records.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/resource\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/resource_delete.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/resource\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/resource_delete.html)

## Resource Rate

### In This Section

|                            |    |
|----------------------------|----|
| Create Resource Rate.....  | 47 |
| Search Resource Rate ..... | 48 |
| Update Resource Rate ..... | 48 |

### Create Resource Rate

The Create function allows add new resource rates for a given resource.

#### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

#### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/resourcerate\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/resourcerate_create.html)

### **JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/resourcerate\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/resourcerate_create.html)

## **Search Resource Rate**

The search function allows you to get existing resource rate records.

### **Request Format**

JSON and XML

#### **Syntax**

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### **Related Topics**

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### **Input Examples**

#### **XML Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/resourcerate\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/resourcerate_search.html)

#### **JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/resourcerate\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/resourcerate_search.html)

## **Update Resource Rate**

The Update function allows you to edit existing resource rates for a given resource.

### **Request Format**

JSON and XML

#### **Syntax**

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
</form>
```

## Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/resourcere\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/resourcere_update.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/resourcere\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/resourcere_update.html)

## Team Member

### In This Section

|                           |    |
|---------------------------|----|
| Create Team Member .....  | 49 |
| Search a Team Member..... | 50 |
| Update a Team Member..... | 51 |
| Delete a Team Member..... | 51 |

## Create Team Member

The Create function allows you to add team members for a given project. If your initiative supports allocations, then use this function to create allocations for a team member on a given project.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

## Related Topics

*Invocation Parameters* (on page 24)

*Global Properties Object* (on page 11)

*Input Parameters* (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/teammember\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/teammember_create.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/teammember\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/teammember_create.html)

## Search a Team Member

The Search function allows you to get information on the team composition of a given project. If your initiative supports allocations, then this function retrieves team member allocation (approved and unapproved) for a given project.

---

**Note:** You can pass more than one Project ID. In addition, you can filter to look for non-zero records and use the last updated date filters to narrow your search.

---

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

## Related Topics

*Invocation Parameters* (on page 24)

*Global Properties Object* (on page 11)

*Input Parameters* (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/teammember\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/teammember_search.html)

**JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/teammember\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/teammember_search.html)

## Update a Team Member

The Update function allows you to edit the team composition of a given project.

**Note:** Updating TBD team member is not supported if there is more than one TBD in a given project.

**Request Format**

JSON and XML

**Syntax**

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

**Related Topics**

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

**Input Examples****XML Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/teammember\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/teammember_update.html)

**JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/teammember\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/teammember_update.html)

## Delete a Team Member

The Delete function allows you to delete team members from a given project. If your initiative supports allocations, then this function deletes team member allocation for a given project.

**Request Format**

JSON and XML

## Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

## Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/teammember\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/teammember_delete.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/teammember\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/teammember_delete.html)

## Activity WBS

### In This Section

---

|                             |    |
|-----------------------------|----|
| Create a WBS activity ..... | 52 |
| Search an Activity.....     | 53 |
| Update a WBS Activity ..... | 54 |
| Delete a WBS Activity ..... | 54 |

### Create a WBS activity

The Create function allows add a new activity to a project roadmap.

---

**Note:** Activity status indicators and activity documents are not supported.

---

### Request Format

JSON and XML

**Syntax**

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

**Related Topics**

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

**Input Examples****XML Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/phase\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/phase_create.html)

**JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/phase\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/phase_create.html)

**Search an Activity**

The search function allows you to get existing activity information.

**Request Format**

JSON and XML

**Syntax**

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

**Related Topics**

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/phase\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/phase_search.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/phase\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/phase_search.html)

## Update a WBS Activity

The Update function allows you to edit an existing activity.

---

**Note:** Activity status indicators and activity documents are not supported.

---

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

## Related Topics

*Invocation Parameters* (on page 24)

*Global Properties Object* (on page 11)

*Input Parameters* (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/phase\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/phase_update.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/phase\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/phase_update.html)

## Delete a WBS Activity

The Delete function allows you to delete an existing activity from a project roadmap.

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

*Invocation Parameters* (on page 24)

*Global Properties Object* (on page 11)

*Input Parameters* (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/phase\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/phase_delete.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/phase\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/phase_delete.html)

## Activity Non-WBS

### In This Section

|                                 |    |
|---------------------------------|----|
| Create a Non-WBS Activity ..... | 55 |
| Search a Non-WBS Activity ..... | 56 |
| Update a Non-WBS Activity ..... | 57 |
| Delete a Non-WBS Activity ..... | 57 |

### Create a Non-WBS Activity

The Create function allows add a new activity non-WBS.

**Note:** Activity status indicators and activity documents are not supported.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/issue\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/issue_create.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/issue\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/issue_create.html)

## Search a Non-WBS Activity

The search function allows you to get existing activity non-WBS records.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/issue\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/issue_search.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/issue\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/issue_search.html)

## Update a Non-WBS Activity

The Update function allows you to edit existing non-WBS activities.

**Note:** Activity status indicators and activity documents are not supported.

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

## Related Topics

*Invocation Parameters* (on page 24)

*Global Properties Object* (on page 11)

*Input Parameters* (on page 25)

## Input Examples

### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/issue\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/issue_update.html)

### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/issue\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/issue_update.html)

## Delete a Non-WBS Activity

The Delete function allows you to delete non-WBS activities.

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

*Invocation Parameters* (on page 24)

*Global Properties Object* (on page 11)

*Input Parameters* (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/issue\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/issue_delete.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/issue\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/issue_delete.html)

## Assignments

### In This Section

---

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| Search an Assignment ..... | 60 |
| Delete an Assignment ..... | 61 |

### Create an Assignment

The Create function allows you to assign resources to activities on existing projects.

---

**Note:** Assignments for activity with the following effort types: Effort at Activity Level-Unequal Distribution and Effort at Resource Level- Details are not supported.

---

## Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/assignment\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/assignment_create.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/assignment\\_create.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/assignment_create.html)

## Update an Assignment

The Update function allows you to edit existing assignments for projects.

### Request Format

JSON and XML

### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
Data: <input type="text" name="request_data"><br>
<input type="submit" value="Submit">
```

</form>

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/assignment\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/assignment_update.html)

#### JSON Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/assignment\\_update.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/assignment_update.html)

## Search an Assignment

The search function allows you to get assignment information for existing projects.

### Request Format

JSON and XML

#### Syntax

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

### Related Topics

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

### Input Examples

#### XML Example

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/assignment\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/assignment_search.html)

**JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/assignment\\_search.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/assignment_search.html)

## Delete an Assignment

The Delete function allows you to delete existing assignments on projects.

**Request Format**

JSON and XML

**Syntax**

```
<form action="<api_url>" method="post">Request Format: <input type="text"
name="request_format"><br>
```

```
Data: <input type="text" name="request_data"><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

**Related Topics**

**Invocation Parameters** (on page 24)

**Global Properties Object** (on page 11)

**Input Parameters** (on page 25)

**Input Examples****XML Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/XML/assignment\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/XML/assignment_delete.html)

**JSON Example**

[http://docs.oracle.com/cd/E80486\\_01/English/Integration\\_Documentation/JSON/assignment\\_delete.html](http://docs.oracle.com/cd/E80486_01/English/Integration_Documentation/JSON/assignment_delete.html)



# GetActivityAssignments Function

The GetActivityAssignments function fetches the activity information that corresponds to the search criteria (filter data) you specify in the input parameters.

## In This Section

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## Invocation Parameters

The parameters for the invocation of the GetActivityAssignments function are described in the following table. Unless otherwise specified, all values are not case sensitive.

| Name        | Data Type | Placeholder or Constant     | Description                                                                      |
|-------------|-----------|-----------------------------|----------------------------------------------------------------------------------|
| api_name    | String    | getactivityassignments      | Specifies the name of the Integration function.                                  |
| input_type  | String    | JSON                        | Specifies the data format for the input.                                         |
| output_type | String    | JSON                        | Specifies the data format for the output.                                        |
| input_data  | String    | <i>&lt;input_params&gt;</i> | Specifies the location of the input parameters.<br>This value is case sensitive. |

## Invocation Example

The syntax for the invocation of the GetActivityAssignments function is as follows:

```
<form action="<api_session>" method="post">
Api Name: <input type="text" name="api_name"
value="getactivityassignment"><br>
Input Type: <input type="text" name="input_type" value="JSON"><br>
Output Type: <input type="text" name=" output_type" value="JSON"><br>
Input Data: <input type="text" name="input_data"
value="<input_params>"><br>
<input type="submit" value="Submit">
```

&lt;/form&gt;

## Input Parameters

The input parameters described in the following table provide the search criteria (filter data) used to identify the data you want. This information should be provided in the JSON formatted data specified by `<input_params>`. Unless otherwise specified, all values are not case sensitive.

| Name                    | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                                |
|-------------------------|-----------|-----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| global_properties       | Object    | Yes             | Not applicable          | This <i>object</i> specifies the global settings for your EnterpriseTrack instance. See "global_properties Object" for details.                            |
| application_data        | Object    | Yes             | Not applicable          | This <i>object</i> specifies the search criteria. See "application_data" for details.                                                                      |
| <b>application_data</b> |           |                 |                         |                                                                                                                                                            |
| resource_descriptor     | Object    | Yes             | Not applicable          | This <i>object</i> specifies the resource.<br>An error results in the event a matching resource cannot be found.<br>See "resource_descriptor" for details. |
| start_date_from         | Date      | No              | <start_from>            | Specifies the beginning date for the range of start dates. This filters on actual (if present) or planned activity dates.                                  |
| start_date_to           | Date      | No              | <start_to>              | Specifies the ending date for the range of start dates. This filters on actual (if present) or planned activity dates.                                     |
| end_date_from           | Date      | No              | <end_from>              | Specifies the beginning date for the range of end dates. This filters on actual (if present) or planned activity dates.                                    |

|                                                                                                      |         |    |                 |                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------|---------|----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| end_date_to                                                                                          | Date    | No | <end_to>        | Specifies the ending date for the range of end dates.<br>This filters on actual (if present) or planned activity dates.                                                                                                   |
| include_external_wa                                                                                  | Boolean | No | <incl_external> | Indicates whether or not to consider external activities.<br>Valid values are:<br>TRUE<br>FALSE                                                                                                                           |
| include_closed_wa                                                                                    | Boolean | No | <incl_closed>   | Indicates whether or not to include closed activities.<br>Valid values are:<br>TRUE<br>FALSE (default)                                                                                                                    |
| max_rows                                                                                             | Integer | No | <max_rows>      | Specifies the maximum number of rows of data to be fetched.<br>The default value is 20.                                                                                                                                   |
| <b>resource_descriptor</b><br>A value for at least one of the following parameters must be provided. |         |    |                 |                                                                                                                                                                                                                           |
| resource_id                                                                                          | String  | No | <resource_ID>   | Specifies the resource ID.<br>If:<br>A resource_id value is specified<br>Then:<br>All other parameters are ignored.<br>Otherwise:<br>The other resource_descriptor parameters will be used to help identify the resource. |

|                   |        |    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------|----|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_login_id | String | No | <resource_login_ID> | <p>Specifies the login ID.</p> <p>If:</p> <p>A resource_id value <i>is not</i> specified</p> <p>-and if-</p> <p>A resource_login_id value <i>is</i> specified</p> <p>Then:</p> <p>All other parameters are ignored.</p> <p>Otherwise:</p> <p>The other resource_descriptor parameters will be used to help identify the resource.</p>                                                                                                                                          |
| resource_email    | String | No | <resource_email>    | <p>Specifies the e-mail address.</p> <p>If:</p> <p>A resource_id value <i>is not</i> specified</p> <p>-and if-</p> <p>A resource_login_id value <i>is not</i> specified</p> <p>-and if-</p> <p>A resource_email value <i>is</i> specified</p> <p>Then:</p> <p>All other parameters are ignored <i>unless</i> multiple resources use the same e-mail address.</p> <p>Otherwise:</p> <p>The other resource_descriptor parameters will be used to help identify the resource.</p> |

|                     |        |    |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|--------|----|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_last_name  | String | No | <resource_last_name>  | <p>Specifies the last name.</p> <p>If:</p> <p>A resource_id value <i>is not</i> specified</p> <p>-and if-</p> <p>A resource_login_id value <i>is not</i> specified</p> <p>-and if-</p> <p>A resource_email value <i>is not</i> specified, or multiple resources have the same e-mail address</p> <p>Then:</p> <p>A combination of the resource_last_name and resource_first_name values is used to identify the resource.</p> <p>Otherwise:</p> <p>The resource cannot be found and an error results.</p> |
| resource_first_name | String | No | <resource_first_name> | Specifies the first name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Input Examples

The syntax for the GetActivityAssignments data input parameters is as follows:

```
{
  "global_properties":
  {
    "char_set": "<char_set>",
    "date_format": "<date_format>",
    "language": "<lang>"
    "api_version": "et-integration-api-1.0",
  },

  "application_data":
  {
    "resource_descriptor":
    {
```

```
        "resource_id": "<resource_ID>",
        "resource_login_id": "<resource_login_ID>",
        "resource_email": "<resource_email>",
        "resource_first_name": "<resource_first_name>",
        "resource_last_name": "<resource_last_name>"
    },
    "start_date_from": "<start_from>",
    "start_date_to": "<start_to>",
    "end_date_from": "<end_from>",
    "end_date_to": "<end_to>",
    "include_external_wa": "<incl_external>",
    "include_closed_wa": "<incl_closed>",
    "max_rows": "<max_rows>"
}
}
```

This is an example with values for the placeholders:

```
{
  "global_properties":
  {
    "char_set": "utf-8",
    "date_format": "yyyy/mm/dd",
    "language": "en"
    "api_version": "et-integration-api-1.0",
  },

  "application_data":
  {
    "resource_descriptor":
    {
      "resource_id": "GHGHG545TRT",
      "resource_login_id": "john_doe",
      "resource_email": "john.smith@example.com",
      "resource_first_name": "john",
      "resource_last_name": "smith"
    },
    "start_date_from": "2011/12/01",
    "start_date_to": "2011/12/31",
    "end_date_from": "2011/12/01",
    "end_date_to": "2011/12/31",
    "include_external_wa": "TRUE",
    "include_closed_wa": "FALSE",
    "max_rows": "20"
  }
}
```

## Output Parameters

The results of the GetActivityAssignments function are provided in JSON data format. The following table details the name/value pairs.

| Name                            | Data Type        | Description                                                                                                                                                                                                            |
|---------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| global_properties               | Object           | This <i>object</i> lists the global settings for your EnterpriseTrack instance.<br>See "global_properties Object" for details.                                                                                         |
| application_data                | Object           | This <i>object</i> lists your search criteria and provides the results.<br>See "application_data" for details.                                                                                                         |
| <b>application_data</b>         |                  |                                                                                                                                                                                                                        |
| et_transaction_id               | String           | Provides the unique EnterpriseTrack transaction ID that is stored in the audit tables.                                                                                                                                 |
| result_code                     | String           | Provides the result code for the completion status of the function.                                                                                                                                                    |
| result_reason                   | String           | If the function is successful, NULL is returned. Otherwise, the reason for the error is returned.                                                                                                                      |
| activity_descriptor_list        | Object           | This <i>object</i> contains the lists of activities corresponding to the search criteria you specified.<br>See "activity_descriptor_list" for details.                                                                 |
| <b>activity_descriptor_list</b> |                  |                                                                                                                                                                                                                        |
| resource_descriptor             | Object           | This <i>object</i> specifies the resource.<br>See "resource_descriptor" for details.                                                                                                                                   |
| total_assignments               | Integer          | Provides the total number of assignments for the specified resource.                                                                                                                                                   |
| rows_returned                   | Integer          | Specifies the number of activities actually returned.<br><br>This could be different from the number of total assignments due to the restrictions imposed by the max_rows value you specified in the input parameters. |
| activity_descriptor             | Array of Objects | These <i>objects</i> contain the details of an activity.<br>See "activity_descriptor" for details.                                                                                                                     |
| project_descriptor              | Object           | This <i>object</i> provides the details of the project.<br>See "project_descriptor" for details.                                                                                                                       |
| <b>resource_descriptor</b>      |                  |                                                                                                                                                                                                                        |

|                             |        |                                                                                                                                                                                                                                                                                            |
|-----------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_id                 | String | Specifies the resource ID.                                                                                                                                                                                                                                                                 |
| resource_login_id           | String | Specifies the login ID.                                                                                                                                                                                                                                                                    |
| resource_email              | String | Specifies the e-mail address.                                                                                                                                                                                                                                                              |
| resource_last_name          | String | Specifies the last name.                                                                                                                                                                                                                                                                   |
| resource_first_name         | String | Specifies the first name.                                                                                                                                                                                                                                                                  |
| <b>activity_descriptor</b>  |        |                                                                                                                                                                                                                                                                                            |
| activity_id                 | String | Provides the ID for the activity.                                                                                                                                                                                                                                                          |
| activity_name               | String | Provides the name of the activity.                                                                                                                                                                                                                                                         |
| activity_desc               | String | Provides the comments associated with the activity.                                                                                                                                                                                                                                        |
| activity_type               | String | Provides the type of the activity.                                                                                                                                                                                                                                                         |
| activity_planned_start_date | Date   | Provides the planned start date of the activity.<br>In some cases, this value may be NULL.                                                                                                                                                                                                 |
| activity_planned_end_date   | Date   | Provides the planned end date of the activity.<br>In some cases, this value may be NULL.                                                                                                                                                                                                   |
| activity_actual_start_date  | Date   | Provides the actual start date of the activity.                                                                                                                                                                                                                                            |
| activity_actual_end_date    | Date   | Provides the actual end date of the activity.                                                                                                                                                                                                                                              |
| activity_actual_efforts     | Number | Provides the actual effort for the activity.                                                                                                                                                                                                                                               |
| activity_remaining_efforts  | Number | Provides the computed remaining effort for the activity.                                                                                                                                                                                                                                   |
| activity_planned_efforts    | Number | Provides the planned effort for the activity.                                                                                                                                                                                                                                              |
| activity_percent_completion | Number | Provides the percentage completion of the activity.                                                                                                                                                                                                                                        |
| activity_owner_info         | String | Specifies the name(s) of the activity owner.<br>The format is last name, comma, a space, first name, a space, and then the role enclosed in parentheses.<br>Multiple values should be separated by semicolons.<br>For example: John, Smith (Project Manager); John, Jones (Network Admin). |

|                                  |         |                                                                                                                                                                                  |
|----------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| activity_<br>baseline_start_date | Date    | Provides the baseline start date for the activity.                                                                                                                               |
| activity_<br>baseline_end_date   | Date    | Provides the baseline end date for the activity.                                                                                                                                 |
| activity_planned_<br>effort_type | String  | Provides the planned effort type for the activity.                                                                                                                               |
| activity_actual_<br>effort_type  | String  | Provides the actual effort type for the activity.                                                                                                                                |
| status_descriptor                | Object  | This <i>object</i> specifies the status of the activity.<br>See "status_descriptor" for details.                                                                                 |
| role_descriptor                  | Object  | This <i>object</i> provides details about the role.<br>See "role_descriptor" for details.                                                                                        |
| activity_external                | String  | Indicates whether or not the activity is tracked<br>outside of the EnterpriseTrack.<br>Expected values are:<br>▶ YES<br>▶ NO                                                     |
| activity_<br>external_id         | String  | Provides the external ID if the activity is tracked<br>outside of the EnterpriseTrack.<br>This value is typically NULL when the value for<br>activity_assignment_external is NO. |
| project_descriptor               | Object  | This <i>object</i> provides the project details.<br>See "project_descriptor" for details.                                                                                        |
| <b>status_descriptor</b>         |         |                                                                                                                                                                                  |
| status_id                        | String  | Provides the ID of the status.                                                                                                                                                   |
| status_desc                      | String  | Provides the description of the status.                                                                                                                                          |
| <b>role_descriptor</b>           |         |                                                                                                                                                                                  |
| role_id                          | String  | Provides the ID of the role.                                                                                                                                                     |
| role_desc                        | String  | Provides the description of the role.                                                                                                                                            |
| <b>project_descriptor</b>        |         |                                                                                                                                                                                  |
| project_id                       | Integer | Provides the ID for the project.                                                                                                                                                 |
| project_name                     | String  | Provides the name for the project.                                                                                                                                               |
| project_manager                  | String  | Provides the name of the manager of the<br>project.                                                                                                                              |
| project_status                   | String  | Provides the status of the project.                                                                                                                                              |

|                 |        |                                                                 |
|-----------------|--------|-----------------------------------------------------------------|
| project_program | String | Provides the names of the programs associated with the project. |
|-----------------|--------|-----------------------------------------------------------------|

### Output Example

The syntax for the JSON formatted parameters from a successful GetActivityAssignments function is similar to the following.

```
{
  "global_properties":
  {
    "char_set": "<some_character_set>",
    "date_format": "<some_date_format>",
    "effort_unit": "<some_units_for_effort>",
    "language": "<some_language>"
    "api_version": "et-integration-api-1.0",
  },

  "application_data":
  {
    "et_transaction_id": "<unique_transaction_ID>",
    "result_code": "<result_code>",
    "result_reason": "<result_reason>",
    "activity_descriptor_list":
    {
      "resource_descriptor":
      {
        "resource_id": "<some_value>",
        "resource_login_id": "<some_value>",
        "resource_email": "<some_value>",
        "resource_last_name": "<some_value>",
        "resource_first_name": "<some_value>"
      },
      "total_assignments": "<number_of_activities>",
      "rows_returned": "<number_of_rows_returned>",
      "activity_descriptor":
      [
        {
          "activity_id": "<ID_1>",
          "activity_name": "<activity_name>",
          "activity_desc": "<activity_description>",
          "activity_type": "<activity_type>",
          "activity_planned_start_date": "<some_date>",
          "activity_planned_end_date": "<some_date>",
```

```
"activity_actual_start_date": "<some_date>",
"activity_actual_end_date": "<some_date>",
"activity_actual_efforts": "<actual_efforts_value>",
"activity_remaining_efforts": "<remaining_efforts_value>",
"activity_planned_efforts": "<planned_efforts_value>",
"activity_percent_completion": "<some_value>",
"activity_owner_info": "<list_of_owners>",
"activity_baseline_start_date": "<some_date>",
"activity_baseline_end_date": "<some_date>",
"activity_planned_effort_type": "<PET_value>",
"activity_actual_effort_type": "<AET_value>",
"status_descriptor":
{
    "status_id": "<status_ID>",
    "status_desc": "<status_description>"
},
"role_descriptor":
{
    "role_id": "<role_ID>",
    "role_desc": "<role_description>"
},
"activity_external": "<yes|no>",
"activity_external_id": "<some_ID>",
"project_descriptor":
{
    "project_id": "<project_ID>",
    "project_name": "<project_name>",
    "project_manager": "<project_manager_name>",
    "project_status": "<project_status>",
    "project_program": "<list_of_program_names>"
}
},
{
    "activity_id": "<ID_2>",
    "activity_name": "<activity_name>",
    "activity_desc": "<activity_description>",
    "activity_type": "<activity_type>",
    "activity_planned_start_date": "<some_date>",
    "activity_planned_end_date": "<some_date>",
    "activity_actual_start_date": "<some_date>",
    "activity_actual_end_date": "<some_date>",
    "activity_actual_efforts": "<actual_efforts_value>",
    "activity_remaining_efforts": "<remaining_efforts_value>",
    "activity_planned_efforts": "<planned_efforts_value>",
    "activity_percent_completion": "<some_value>",
```

```
"activity_owner_info": "<list_of_owners>",
"activity_baseline_start_date": "<some_date>",
"activity_baseline_end_date": "<some_date>",
"activity_planned_effort_type": "<PET_value>",
"activity_actual_effort_type": "<AET_value>",
"status_descriptor":
{
    "status_id": "<status_ID>",
    "status_desc": "<status_description>"
},
"role_descriptor":
{
    "role_id": "<role_ID>",
    "role_desc": "<role_description>"
},
"activity_external": "<yes|no>",
"activity_external_id": "<some_ID>",
"project_descriptor":
{
    "project_id": "<project_ID>",
    "project_name": "<project_name>",
    "project_manager": "<project_manager_name>",
    "project_status": "<project_status>",
    "project_program": "<list_of_program_names>"
}
}
]
}
}
```

# UpdateResourceEffort Function

The UpdateResourceEffort function updates the effort for an activity based on the details you specify in the input parameters.

## In This Section

|                            |    |
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| Input Parameters.....      | 76 |
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## Invocation Parameters

The parameters for the invocation of the UpdateResourceEffort function are described in the following table. Unless otherwise specified, all values are not case sensitive.

| Name        | Data Type | Placeholder or Constant | Description                                                                      |
|-------------|-----------|-------------------------|----------------------------------------------------------------------------------|
| api_name    | String    | UpdateResourceEffort    | Specifies the name of the Integration function.                                  |
| input_type  | String    | JSON                    | Specifies the data format for the input parameters.                              |
| output_type | String    | JSON                    | Specifies the data format for the output parameters.                             |
| input_data  | String    | <input_params>          | Specifies the location of the input parameters.<br>This value is case sensitive. |

## Invocation Example

The syntax for the invocation of the UpdateResourceEffort function is as follows:

```
<form action="<api_session>" method="post">
```

```
Api Name: <input type="text" name="api_name" value="updateresourceeffort"><br>
```

```
Input Type: <input type="text" name="input_type" value="JSON"><br>
```

```
Output Type: <input type="text" name="output_type" value="JSON"><br>
```

```
Input Data: <input type="text" name="input_data" value="<input_params>"><br>
```

```
<input type="submit" value="Submit">
</form>
```

## Input Parameters

The input parameters described in the following table provide the search criteria (filter data) to identify the activity, as well as to specify the updated effort data you want to commit. This information should be provided in the JSON formatted data specified by `<input_params>`. Unless otherwise specified, all values are not case sensitive.

**Note:** This function includes a "test" feature (see **test\_mode**) that allows you to verify that the information you include in the input parameters can be successfully committed. Since there is no mechanism to "roll back" invalid data, you are encouraged to "test" the data before actually committing any updates.

| Name                          | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                         |
|-------------------------------|-----------|-----------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| global_properties             | Object    | Yes             | Not applicable          | This <i>object</i> specifies the global settings for your EnterpriseTrack instance. See the "global_properties Object" for details. |
| application_data              | Object    | Yes             | Not applicable          | This <i>object</i> specifies the search criteria as well as the revised effort data. See "application_data" for details.            |
| <b>application_data</b>       |           |                 |                         |                                                                                                                                     |
| source_application_descriptor | Object    | Yes             | Not applicable          | This object specifies the information you want stored in the audit tables. See "source_application_descriptor" for details.         |
| security_descriptor           | Object    | Yes             | Not applicable          | This object specifies the authentication information to be verified. See "security_descriptor" for details.                         |

|                          |        |                                       |                |                                                                                                                                                                                                                                                                                 |
|--------------------------|--------|---------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_descriptor      | Object | Yes                                   | Not applicable | This <i>object</i> specifies the resource.<br>An error results in the event a matching resource cannot be found. See "resource_descriptor" for details.                                                                                                                         |
| project_descriptor       | Object | Optionally required (see description) | Not applicable | Required only if operation_type has one of the following values:<br><ul style="list-style-type: none"> <li>▶ INTERNAL_ACTIVITY</li> <li>▶ EXTERNAL_ACTIVITY</li> <li>▶ PROJECT_TIME</li> </ul> This object specifies the project details. See "project_descriptor" for details. |
| time_category_descriptor | Object | Optionally required (see description) | Not applicable | Required only if operation_type has one of the following values:<br><ul style="list-style-type: none"> <li>▶ NON_PROJECT_TIME</li> <li>▶ NON_WORKING_TIME</li> </ul> This object specifies the category information for the effort. See "time_category_descriptor" for details. |
| operation_type           | String | Yes                                   | <op_type>      | Specifies the type of operation. Valid values are:<br><ul style="list-style-type: none"> <li>▶ INTERNAL_ACTIVITY</li> <li>▶ EXTERNAL_ACTIVITY</li> <li>▶ PROJECT_TIME</li> <li>▶ NON_PROJECT</li> <li>▶ NON_WORKING_TIME</li> </ul>                                             |

|                                      |         |     |               |                                                                                                                                                                                                                                                                          |
|--------------------------------------|---------|-----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| test_mode                            | Boolean | No  | <test_mode>   | Indicates whether or not this invocation of the function is merely a test. Valid values are: <ul style="list-style-type: none"><li>▶ TRUE</li><li>▶ FALSE (default)</li></ul> If test_mode is FALSE, then the updates will be committed in the EnterpriseTrack database. |
| <b>source_application_descriptor</b> |         |     |               |                                                                                                                                                                                                                                                                          |
| source_app                           | String  | Yes | <source_App>  | Specifies the name of the source application.                                                                                                                                                                                                                            |
| source_ref_unique_id                 | String  | Yes | <source_ID>   | Specifies the ID of the caller of the Integration function.                                                                                                                                                                                                              |
| source_ref_description               | String  | Yes | <source_desc> | Specifies the description of the caller of the Integration function.                                                                                                                                                                                                     |
| source_ref_type                      | String  | Yes | <source_type> | Specifies the reference type of the caller of the Integration function.                                                                                                                                                                                                  |

| security_descriptor                            |        |                                       |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------|--------|---------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| authorization_policy                           | String | Yes                                   | <auth_policy>  | <p>Specifies the authorization policy to be used. Valid values are:</p> <ul style="list-style-type: none"> <li>▶ AUTHORIZE_WITH_LOGIN_RESOURCE - Execute using the permissions of the logged in Integration user.</li> <li>▶ AUTHORIZE_WITH_RECORD_LOCATOR_RESOURCE - Execute using the permissions of the resource specified in resource_descriptor.</li> <li>▶ AUTHORIZE_WITH_AUTHORIZATION_POLICY_GIVEN_RESOURCE - Execute using the permissions of the resource specified in authorization_policy_given_resource_descriptor.</li> </ul> |
| authorization_policy_given_resource_descriptor | Object | Optionally required (see description) | Not applicable | <p>Required only if authorization_policy has the following value:</p> <ul style="list-style-type: none"> <li>▶ AUTHORIZE_WITH_AUTHORIZATION_POLICY_GIVEN_RESOURCE - This <i>object</i> specifies the resource whose permissions should be used to execute the function.</li> </ul> <p>See "authorization_policy_given_resource_descriptor" for details.</p>                                                                                                                                                                                 |

| <b>authorization_policy_given_resource_descriptor</b> |        |    |                          |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------|--------|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_id                                           | String | No | <auth_resource_ID>       | Specifies the resource ID of the authorized resource.<br>If a resource_id value is specified then all other parameters are ignored. Otherwise, the other resource_descriptor parameters will be used to help identify the resource.                                                                                                                                                            |
| resource_login_id                                     | String | No | <auth_resource_login_ID> | Specifies the login ID of the authorized resource.<br>If a resource_id value is not specified and if a resource_login_id value is specified, then all other parameters are ignored. Otherwise, the other resource_descriptor parameters will be used to help identify the resource.                                                                                                            |
| resource_email                                        | String | No | <auth_resource_email >   | Specifies the e-mail address of the authorized resource.<br>If a resource_id value is not specified and if a resource_login_id value is not specified and if a resource_email value is specified, then all other parameters are ignored unless multiple resources use the same e-mail address. Otherwise, the other resource_descriptor parameters will be used to help identify the resource. |

|                                                              |        |    |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------|--------|----|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_last_name                                           | String | No | <auth_resource_last_name>  | Specifies the last name of the authorized resource.<br>If, a resource_id value is <i>not</i> specified and if a resource_login_id value is <i>not</i> specified and if a resource_email value is <i>not</i> specified, or multiple resources have the same e-mail address, then the combination of the resource_last_name and resource_first_name values are used to identify the resource. Otherwise, the resource cannot be found and an error results. |
| resource_first_name                                          | String | No | <auth_resource_first_name> | Specifies the first name of the authorized resource.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>resource_descriptor</b>                                   |        |    |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| A value for at least one of the parameters must be provided. |        |    |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| resource_id                                                  | String | No | <resource_ID>              | Specifies the resource ID of the resource.<br>If a resource_id value is specified then all other parameters are ignored. Otherwise, the other resource_descriptor parameters will be used to help identify the resource.                                                                                                                                                                                                                                  |
| resource_login_id                                            | String | No | <resource_login_ID>        | Specifies the login ID of the resource. If a resource_id value is <i>not</i> specified and if a resource_login_id value is specified then all other parameters are ignored. Otherwise, the other resource_descriptor parameters will be used to help identify the resource.                                                                                                                                                                               |

|                                                                                                                                                                                                                                                                                                                                                                   |        |    |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_email                                                                                                                                                                                                                                                                                                                                                    | String | No | <resource_email>      | Specifies the e-mail address of the resource.<br>If a resource_id value <i>is not</i> specified and if a resource_login_id value <i>is not</i> specified and if a resource_email value <i>is</i> specified, then all other parameters are ignored <i>unless</i> multiple resources use the same e-mail address. Otherwise the other resource_descriptor parameters will be used to help identify the resource.                             |
| resource_last_name                                                                                                                                                                                                                                                                                                                                                | String | No | <resource_last_name>  | Specifies the last name of the resource. If a resource_id value <i>is not</i> specified and if a resource_login_id value <i>is not</i> specified and if a resource_email value <i>is not</i> specified, or multiple resources have the same e-mail address, then the combination of the resource_last_name and resource_first_name values are used to identify the resource. Otherwise, the resource cannot be found and an error results. |
| resource_first_name                                                                                                                                                                                                                                                                                                                                               | String | No | <resource_first_name> | Specifies the first name of the resource.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>project_descriptor</b>                                                                                                                                                                                                                                                                                                                                         |        |    |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| All of the values can be NULL if you do not want to filter on the project. If you want to filter on a project, either the project_id or the project_name should be specified. If the project_id and the project_name are both NULL, the project will default to "Operations Project." An error results if there is no project with the name "Operations Project." |        |    |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| project_id                                                                                                                                                                                                                                                                                                                                                        | String | No | <project_ID>          | Specifies the ID for the project.<br>If specified and there are no matches, an error results.                                                                                                                                                                                                                                                                                                                                              |

|                          |        |     |                   |                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|--------|-----|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_name             | String | No  | <project_name>    | Specifies the name for the project. If a project_id value <i>is not</i> specified and if a project_name value <i>is</i> specified, then this data used to help identify the project. An error results if a match is not found.                                                                                                                                               |
| project_manager          | String | No  | <project_manager> | Specifies the name of the manager of the project.                                                                                                                                                                                                                                                                                                                            |
| project_status           | String | No  | <project_status>  | Specifies the status of the project.<br>Valid values match those configured for your EnterpriseTrack application and there is no default value. Some examples of the status for are project are:<br><ul style="list-style-type: none"> <li>▶ Active</li> <li>▶ On Hold</li> <li>▶ Canceled</li> <li>▶ Completed-Post Realization</li> <li>▶ Closed-In Realization</li> </ul> |
| project_program          | String | No  | <project_program> | Specifies the name of the program associated with the project.                                                                                                                                                                                                                                                                                                               |
| activity_descriptor      | Object | Yes | Not applicable    | This object specifies the details of the activity. At least one value must be specified. See "activity_descriptor" for details.                                                                                                                                                                                                                                              |
| time_category_descriptor | Object | Yes | Not applicable    | This object specifies the category for the effort. See "time_category_descriptor" for details.                                                                                                                                                                                                                                                                               |

| <b>activity_descriptor</b>                                                                                                                                                                                           |        |     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| activity_id                                                                                                                                                                                                          | String | Yes | <act_id>       | <p>Specifies the activity ID to match.</p> <p>The value is not case sensitive.</p> <p>For internal activities, this corresponds to the EnterpriseTrack activity ID.</p> <p>For external activities, this corresponds to the unique ID assigned for the activities tracked outside of the EnterpriseTrack.</p> <p>For miscellaneous activities, this corresponds to the Enterprise category name.</p> <p>An error results if no matching activity ID for the specified resource is found.</p> |
| activity_desc                                                                                                                                                                                                        | String | No  | <act_desc>     | <p>Specifies the external activity description to match.</p> <p>For internal or miscellaneous activities, this can be NULL.</p> <p>For external activities, this should match the name of the activity assigned in the EnterpriseTrack.</p>                                                                                                                                                                                                                                                  |
| role_descriptor                                                                                                                                                                                                      | Object | Yes | Not applicable | <p>This object specifies the role. See "role_descriptor" for details.</p>                                                                                                                                                                                                                                                                                                                                                                                                                    |
| effort_descriptor or                                                                                                                                                                                                 | Object | Yes | Not applicable | <p>This object specifies the effort details. See "effort_descriptor" for details.</p>                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>role_descriptor</b>                                                                                                                                                                                               |        |     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>All of the values can be NULL if you do not want to filter on the role.</p> <p>If the role_id and the role_desc are both NULL and the resource has multiple roles in the specified project, an error results.</p> |        |     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| role_id                                                                                                                                                                                                              | String | No  | <role_ID>      | <p>Specifies the role ID to match.</p> <p>An error results if no matching role ID for the specified resource is found.</p>                                                                                                                                                                                                                                                                                                                                                                   |

|                          |         |     |               |                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|---------|-----|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| role_desc                | String  | No  | <role_ID>     | Specifies the role description to match.<br>An error results if no matching role description for the specified resource is found.                                                                                                                                                                                                                                                        |
| <b>effort_descriptor</b> |         |     |               |                                                                                                                                                                                                                                                                                                                                                                                          |
| update_action_code       | String  | Yes | <action_code> | Specifies how the values (for total_hours and overtime_hours) should be used. Valid values are: <ul style="list-style-type: none"> <li>▶ REPLACE - Replace disregards the existing value and updates using the new value.</li> <li>▶ INCREMENT - Increment adds the new value to the existing value, then updates using the new sum.</li> </ul>                                          |
| date                     | Date    | Yes | <date>        | Specifies the date to be assigned to the effort.<br>If the effort is tracked using EnterpriseTrack timesheets, then the effort will be revised for the specified date.<br>Otherwise if the effort is tracked as activities, then either the effort will be revised for the week in which the date occurs, or the date will be ignored, and the effort will be revised for that activity. |
| total_hours              | Integer | Yes | <total_hrs>   | Specifies the number of non-overtime hours to include. See update_action_code for additional detail.                                                                                                                                                                                                                                                                                     |
| overtime_hours           | Integer | No  | <ot_hrs>      | Specifies the number of overtime hours to include. See update_action_code for additional detail.                                                                                                                                                                                                                                                                                         |

|                                 |        |                                       |                |                                                                                                                                                                                                                                          |
|---------------------------------|--------|---------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| notes                           | String | No                                    | <notes>        | Specifies the remarks to be included with the effort.<br>If activities are tracked using EnterpriseTrack timesheets, the note will be appended to the timesheet notes.<br>Otherwise, the note will be appended to the activity comments. |
| <b>time_category_descriptor</b> |        |                                       |                |                                                                                                                                                                                                                                          |
| time_category_desc              | String | Optionally required (see description) | <time_cat>     | Required only if operation_type has one of the following values:<br><ul style="list-style-type: none"> <li>▶ NON_PROJECT</li> <li>▶ NON_WORKING_TIME</li> </ul> Specifies the description of the category.                               |
| effort_descriptor or            | Object | Yes                                   | Not applicable | This object specifies the effort details. See "effort_descriptor" for details.                                                                                                                                                           |

### Input Example

The syntax for the UpdateResourceEffort data input parameters is as follows:

```
{
  "global_properties":
  {
    "char_set": "<char_set>",
    "date_format": "<date_format>",
    "language": "<lang>",
    "api_version": "et-integration-api-1.0",
  },

  "application_data":
  {
    "source_application_descriptor":
    {
      "source_app": "<source_App>",
      "source_ref_unique_id": "<source_ID>",
      "source_ref_description": "<source_desc>",
      "source_ref_type": "<source_type>"
    }
  }
}
```

```
},
"security_descriptor":
{
    "authorization_policy": "<auth_policy>",
    "authorization_policy_given_resource_descriptor":
    {
        "resource_id": "<auth_resource_ID>",
        "resource_login_id": "<auth_resource_login_ID>",
        "resource_email": "<auth_resource_email>",
        "resource_first_name": "<auth_resource_last_name>",
        "resource_last_name": "<auth_resource_first_name>"
    }
},
"resource_descriptor":
{
    "resource_id": "<resource_ID>",
    "resource_login_id": "<resource_login_ID>",
    "resource_email": "<resource_email>",
    "resource_first_name": "<resource_last_name>",
    "resource_last_name": "<resource_first_name>"
},
"project_descriptor":
{
    "project_id": "<project_ID>",
    "project_name": "<project_name>",
    "project_manager": "<project_manager>",
    "project_status": "<project_status>",
    "project_program": "<project_program>",
    "activity_descriptor":
    {
        "activity_id": "<act_id>",
        "activity_desc": "<act_desc>",
        "role_descriptor":
        {
            "role_id": "<role_ID>",
            "role_desc": "<role_desc>"
        },
        "effort_descriptor":
        {
            "update_action_code": "<action_code>",
            "date": "<date>",
            "total_hours": "<total_hrs>",
            "overtime_hours": "<ot_hrs>",
            "notes": "<notes>"
        }
    }
}
```

```
    },
    "time_category_descriptor":
    {
        "time_category_desc": "<time_desc>",
        "effort_descriptor":
        {
            "update_action_code": "<action_code>",
            "date": "<date>",
            "total_hours": "<total_hrs>",
            "overtime_hours": "<ot_hrs>",
            "notes": "<notes>"
        }
    }
},
"time_category_descriptor":
{
    "time_category_desc": "<time_desc>",
    "effort_descriptor":
    {
        "update_action_code": "<action_code>",
        "date": "<date>",
        "total_hours": "<total_hrs>",
        "overtime_hours": "<ot_hrs>",
        "notes": "<notes>"
    }
},
"operation_type": "<op_type>",
"test_mode": "<test_mode>"
}
}
```

This is an example with values for the placeholders.

```
{
  "global_properties":
  {
    "char_set": "ISO-8859-1",
    "date_format": "yyyy/MM/dd",
    "language": "en"
    "api_version": "et-integration-api-1.0",
  },

  "application_data":
  {
    "source_application_descriptor":
    {
```

```
        "source_app": "hp quality center",
        "source_ref_unique_id": "WEWEWW1222",
        "source_ref_description": "this is related to new calls",
        "source_ref_type": "support call"
    },
    "security_descriptor":
    {
        "authorization_policy": "authorize_with_login_resource",
        "authorization_policy_given_resource_descriptor":
        {
            "resource_id": "",
            "resource_login_id": "",
            "resource_email": "",
            "resource_first_name": "don",
            "resource_last_name": "adams"
        }
    },
    "resource_descriptor":
    {
        "resource_id": "",
        "resource_login_id": "",
        "resource_email": "",
        "resource_first_name": "don",
        "resource_last_name": "adams"
    },
    "project_descriptor":
    {
        "project_id": "4",
        "project_name": "",
        "project_manager": "",
        "project_status": "",
        "project_program": "",
        "time_category_descriptor":
        {
            "time_category_desc": " ",
            "effort_descriptor":
            {
                "date": " ",
                "total_hours": " ",
                "overtime_hours": " ",
                "update_action_code": " ",
                "notes": " "
            }
        }
    },
    "activity_descriptor":
```

```
{
  "activity_id": "JXHQDCCGSVHPC",
  "activity_desc": "new act",
  "role_descriptor": {
    "role_id": "",
    "role_desc": "Network Admin"
  },
  "effort_descriptor": {
    "update_action_code": "INCREMENT",
    "date": "2012/10/11",
    "total_hours": "10.5",
    "overtime_hours": "5",
    "notes": "some notes"
  },
  "operation_type": "EXTERNAL_ACTIVITY",
  "test_mode": "false"
}
```

## Output Parameters

The results of the UpdateResourceEffort function are provided in JSON data format. The following table details the name/value pairs.

| Name                    | Data Type | Description                                                                                                                                         |
|-------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| global_properties       | Object    | This <i>object</i> lists the global settings for your EnterpriseTrack instance.<br>See " <b>Global Properties Object</b> (on page 11)" for details. |
| application_data        | Object    | This <i>object</i> provides the results.<br>See "application_data" for details.                                                                     |
| <b>application_data</b> |           |                                                                                                                                                     |
| et_transaction_id       | String    | This is the unique EnterpriseTrack transaction ID that is stored in the audit tables.                                                               |
| result_code             | String    | Provides the result code for the completion status of the function.                                                                                 |
| result_reason           | String    | If the function is successful, NULL is returned. Otherwise, the reason for the error is returned.                                                   |

| Name                       | Data Type | Description                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_descriptor         | Object    | This <i>object</i> contains the details of the project.<br>See "project_descriptor" for details.                                                                                                                                                                                                                                                                                    |
| timesheet_descriptor       | Object    | This <i>object</i> contains the details of the timesheet.<br>This is provided only if the effort is tracked using EnterpriseTrack timesheets.<br>See "timesheet_descriptor" for details.                                                                                                                                                                                            |
| <b>project_descriptor</b>  |           |                                                                                                                                                                                                                                                                                                                                                                                     |
| project_id                 | Integer   | Provides the ID for the project.                                                                                                                                                                                                                                                                                                                                                    |
| project_name               | String    | Provides the name for the project.                                                                                                                                                                                                                                                                                                                                                  |
| project_manager            | String    | Provides the name of the manager of the project.                                                                                                                                                                                                                                                                                                                                    |
| project_status             | String    | Provides the status of the project.<br>Valid values match those configured for your EnterpriseTrack application and there is no default value.<br>Some <i>examples</i> of the status for are project are: <ul style="list-style-type: none"> <li>▶ Active</li> <li>▶ On Hold</li> <li>▶ Cancelled</li> <li>▶ Completed-Post Realization</li> <li>▶ Closed-In Realization</li> </ul> |
| project_program            | String    | Provides the name of the program associated with the project.                                                                                                                                                                                                                                                                                                                       |
| activity_descriptor        | Object    | This <i>object</i> contains the details of an activity.<br>See "activity_descriptor" for details.                                                                                                                                                                                                                                                                                   |
| time_category_descriptor   | Object    | This <i>object</i> contains the details of the time category of an activity.<br>See "time_category_descriptor" for details.                                                                                                                                                                                                                                                         |
| <b>activity_descriptor</b> |           |                                                                                                                                                                                                                                                                                                                                                                                     |
| activity_id                | String    | Provides the ID of the activity.                                                                                                                                                                                                                                                                                                                                                    |
| activity_desc              | String    | Provides the description of the activity.                                                                                                                                                                                                                                                                                                                                           |
| activity_total_effort      | Integer   | Provides the total number of hours (to date) for the activity.                                                                                                                                                                                                                                                                                                                      |
| activity_name              | String    | Provides the name of the activity.                                                                                                                                                                                                                                                                                                                                                  |

| Name                            | Data Type | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>time_category_descriptor</b> |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| time_category_desc              | String    | Provides the description of the time category.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| effort_descriptor               | Object    | This <i>object</i> specifies the effort details.<br>See "effort_descriptor" for details.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>effort_descriptor</b>        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| update_action_code              | String    | Specifies how the values for total_hours and overtime_hours should be used.<br>Valid values are: <ul style="list-style-type: none"><li>▶ REPLACE<br/>Replace disregards the existing value and updates using the new value.</li><li>▶ INCREMENT<br/>Increment adds the new value to the existing value and then updates using the new sum.</li></ul>                                                                                                                                                  |
| date                            | Date      | Specifies the date to be assigned to the effort.<br>If:<br>The effort is tracked using EnterpriseTrack timesheets and then the effort will be revised for the specified date.<br>Else if:<br>The effort is tracked as activities, then either: <ul style="list-style-type: none"><li>▶ The effort will be revised for the week in which the date occurs.</li></ul> -or- <ul style="list-style-type: none"><li>▶ The date will be ignored, and the effort will be revised for that activity.</li></ul> |
| total_hours                     | Integer   | Specifies the number of non-overtime hours to include.<br>See update_action_code for additional detail.                                                                                                                                                                                                                                                                                                                                                                                               |
| overtime_hours                  | Integer   | Specifies the number of overtime hours to include.<br>See update_action_code for additional detail.                                                                                                                                                                                                                                                                                                                                                                                                   |

| Name                        | Data Type | Description                                                                                                                                                                                                                                     |
|-----------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| notes                       | String    | Specifies the remarks to be included with the effort.<br>If:<br>Activities are tracked using EnterpriseTrack timesheets, the note will be appended to the timesheet notes.<br>Otherwise:<br>The note will be appended to the activity comments. |
| <b>timesheet_descriptor</b> |           |                                                                                                                                                                                                                                                 |
| timesheet_id                | String    | Provides the ID of the activity.                                                                                                                                                                                                                |
| timesheet_start_date        | Date      | Provides the start date of the activity.                                                                                                                                                                                                        |
| timesheet_end_date          | Date      | Provides the end date of the activity.                                                                                                                                                                                                          |
| timesheet_total_hours       | Integer   | Provides the total number of hours (to date) for the activity.                                                                                                                                                                                  |
| timesheet_overtime_hours    | Integer   | Provides the total number of overtime hours (to date) for the activity                                                                                                                                                                          |
| timesheet_approver          | String    | Provides the name of the timesheet approver.                                                                                                                                                                                                    |

## Output Examples

The syntax for the JSON formatted parameters from a successful UpdateResourceEffort function is similar to the following.

```
{
  "global_properties":
  {
    "char_set": "<some_character_set>",
    "date_format": "<some_date_format>",
    "language": "<some_language>",
    "effort_unit": "<some_units_for_effort>"
    "api_version": "et-integration-api-1.0",
  },
  "application_data":
  {
```

```
"et_transaction_id": "<some_unique_ID>",
"result_code": "<result_code>",
"result_reason": "<result_reason>",
"project_descriptor":
{
    "project_id": "<project_ID>",
    "project_name": "<project_name>",
    "project_manager": "<manager_name>",
    "project_status": "<project_status>",
    "project_program": "<list_of_program_names>",
    "activity_descriptor":
    {
        "activity_name": "<activity_name>",
        "activity_id": "<activity_ID>",
        "activity_total_effort": "<total_effort>"
    }
},
"timesheet_descriptor":
{
    "timesheet_id": "<timesheet_ID>",
    "timesheet_start_date": "<timesheet_start_date>",
    "timesheet_end_date": "<timesheet_end_date>",
    "timesheet_approver": "<timesheet_approver_name>",
    "timesheet_total_hours": "<total_hours>",
    "timesheet_overtime_hours": "<overtime_hours>"
}
}
```

# UpdateActivity Function

The UpdateActivity function updates the activity data based on the details you specify in the input parameters.

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## Invocation Parameters

The parameters for the invocation of the UpdateActivity function are described in the following table. Unless otherwise specified, all values are not case sensitive.

| Name        | Data Type | Placeholder or Constant | Description                                                                      |
|-------------|-----------|-------------------------|----------------------------------------------------------------------------------|
| api_name    | String    | updateactivity          | Specifies the name of the Integration function.                                  |
| input_type  | String    | JSON                    | Specifies the data format for the input parameters.                              |
| output_type | String    | JSON                    | Specifies the data format for the output parameters.                             |
| input_data  | String    | <input_params>          | Specifies the location of the input parameters.<br>This value is case sensitive. |

## Invocation Example

The syntax for the invocation of the UpdateActivity function is as follows:

```
<form action="<api_session>" method="post">
Api Name: <input type="text" name="api_name" value="updateactivity"><br>
Input Type: <input type="text" name="input_type" value="JSON"><br>
Output Type: <input type="text" name=" output_type" value="JSON"><br>
Input Data: <input type="text" name="input_data"
value="<input_params>"><br>
<input type="submit" value="Submit">
```

&lt;/form&gt;

## Input Parameters

The input parameters described in the following table provide the search criteria (filter data) to identify the activity, as well as to specify the updated effort data you want to commit.

This information should be provided in the JSON formatted data specified by `<input_params>`. Unless otherwise specified, all values are not case sensitive.

**Note:** This function includes a "test" feature (see `test_mode`) that allows you to verify that the information you include in the input parameters can be successfully committed. Since there is no mechanism to "roll back" invalid data, you are encouraged to "test" the data before actually committing any updates.

| Name                          | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                          |
|-------------------------------|-----------|-----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| global_properties             | object    | yes             | Not applicable          | This object specifies the global settings for your EnterpriseTrack instance. See "global_properties Object" for details.                             |
| application_data              | Object    | Yes             | Not applicable          | This object specifies the search criteria. See "application_data" for details.                                                                       |
| <b>application_data</b>       |           |                 |                         |                                                                                                                                                      |
|                               |           |                 |                         |                                                                                                                                                      |
| source_application_descriptor | Object    | Yes             | Not applicable          | This <i>object</i> specifies the information you want stored in the audit table. See "source_application_descriptor" for details.                    |
| security_descriptor           | Object    | Yes             | Not applicable          | This <i>object</i> specifies the authentication information to be verified. See "security_descriptor" for details.                                   |
| resource_descriptor           | Object    | Yes             | Not applicable          | This <i>object</i> specifies the resource. An error results in the event a matching resource cannot be found. See "resource_descriptor" for details. |

|                                      |         |     |                |                                                                                                                                                                                                                                                                                        |
|--------------------------------------|---------|-----|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_descriptor                   | Object  | Yes | Not applicable | This <i>object</i> specifies the project details.<br>See "project_descriptor" for details.                                                                                                                                                                                             |
| operation_type                       | String  | Yes | <op_type>      | Specifies the type of operation.<br>Valid values are:<br><ul style="list-style-type: none"> <li>▶ INTERNAL_ACTIVITY</li> <li>▶ EXTERNAL_ACTIVITY</li> </ul>                                                                                                                            |
| test_mode                            | Boolean | No  | <test_mode>    | Indicates whether or not this invocation of this function is merely a test. Valid values are:<br><ul style="list-style-type: none"> <li>▶ TRUE</li> <li>▶ FALSE (default)</li> </ul> If test_mode is FALSE, then the updates <i>will be committed</i> in the EnterpriseTrack database. |
| <b>source_application_descriptor</b> |         |     |                |                                                                                                                                                                                                                                                                                        |
| source_app                           | String  | Yes | <source_App>   | Specifies the name of the source application.                                                                                                                                                                                                                                          |
| source_ref_unique_id                 | String  | Yes | <source_ID>    | Specifies the ID of the caller of the Integration function.                                                                                                                                                                                                                            |
| source_ref_description               | String  | Yes | <source_desc>  | Specifies the description of the caller of the Integration function.                                                                                                                                                                                                                   |
| source_ref_type                      | String  | Yes | <source_type>  | Specifies the reference type of the caller of the Integration function.                                                                                                                                                                                                                |

| <b>security_descriptor</b>                            |        |                                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------|--------|---------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| authorization_policy                                  | String | Yes                                   | <auth_policy>      | <p>Specifies the authorization policy to be used. Valid values are:</p> <ul style="list-style-type: none"> <li>▶ <b>AUTHORIZE_WITH_LOGIN_RESOURCE</b> - Execute using the permissions of the logged in Integration user.</li> <li>▶ <b>AUTHORIZE_WITH_RECORD_LOCATOR_RESOURCE</b> - Execute using the permissions of the resource specified in resource_descriptor.</li> <li>▶ <b>AUTHORIZE_WITH_AUTHORIZATION_POLICY_GIVEN_RESOURCE</b> - Execute using the permissions of the resource specified in authorization_policy_given_resource_descriptor.</li> </ul> |
| authorization_policy_given_resource_descriptor        | Object | Optionally required (see description) | Not applicable     | <p>Required only if authorization_policy has the <b>AUTHORIZE_WITH_AUTHORIZATION_POLICY_GIVEN_RESOURCE</b> value.</p> <p>This <i>object</i> specifies the resource whose permissions should be used to execute the function. See "authorization_policy_given_resource_descriptor" for details.</p>                                                                                                                                                                                                                                                               |
| <b>authorization_policy_given_resource_descriptor</b> |        |                                       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| resource_id                                           | String | No                                    | <auth_resource_ID> | <p>Specifies the resource ID of the authorized resource.</p> <p>If a resource_id value is specified, then all other parameters are ignored. Otherwise, the other resource_descriptor parameters will be used to help identify the resource.</p>                                                                                                                                                                                                                                                                                                                  |

|                     |        |    |                            |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|--------|----|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_login_id   | String | No | <auth_resource_login_ID>   | Specifies the login ID of the authorized resource.<br>If a resource_id value is <i>not</i> specified and if a resource_login_id value is specified then all other parameters are ignored. Otherwise, the other resource_descriptor parameters will be used to help identify the resource.                                                                                                                             |
| resource_email      | String | No | <auth_resource_email >     | Specifies the e-mail address of the authorized resource.<br>If a resource_id and resource_login_id values are <i>not</i> specified and a resource_email value is specified, then all other parameters are ignored <i>unless</i> multiple resources use the same e-mail address. Otherwise, the other resource_descriptor parameters will be used to help identify the resource.                                       |
| resource_last_name  | String | No | <auth_resource_last_name>  | Specifies the last name of the authorized resource.<br>If a resource_id and resource_login_id values are <i>not</i> specified, and a resource_email value is <i>not</i> specified, or multiple resources have the same e-mail address, then the combination of the resource_last_name and resource_first_name values are used to identify the resource. Otherwise, the resource cannot be found and an error results. |
| resource_first_name | String | No | <auth_resource_first_name> | Specifies the first name of the authorized resource.                                                                                                                                                                                                                                                                                                                                                                  |

| <b>resource_descriptor:</b>                                  |        |    |                     |                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------|--------|----|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A value for at least one of the parameters must be provided. |        |    |                     |                                                                                                                                                                                                                                                                                                                                                                         |
| resource_id                                                  | String | No | <resource_ID>       | Specifies the resource ID of the resource.<br><br>If a resource_id value is specified then all other parameters are ignored. Otherwise, the other resource_descriptor parameters will be used to help identify the resource.                                                                                                                                            |
| resource_login_id                                            | String | No | <resource_login_ID> | Specifies the login ID of the resource.<br><br>If a resource_id value is <i>not</i> specified and a resource_login_id value is specified, then all other parameters are ignored. Otherwise, the other resource_descriptor parameters will be used to help identify the resource.                                                                                        |
| resource_email                                               | String | No | <resource_email>    | Specifies the e-mail address of the resource.<br><br>If resource_id and resource_login_id values are <i>not</i> specified, and a resource_email value is specified, then all other parameters are ignored <i>unless</i> multiple resources use the same e-mail address. Otherwise, the other resource_descriptor parameters will be used to help identify the resource. |

|                                                                                                                                                                                                                                                                                                                                                                                             |        |    |                       |                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_last_name                                                                                                                                                                                                                                                                                                                                                                          | String | No | <resource_last_name>  | Specifies the last name.<br>If a resource_id value, and a resource_login_id value are <i>not</i> specified, and if a resource_email value is <i>not</i> specified, or multiple resources have the same e-mail address, then a combination of the resource_last_name and resource_first_name values are used to identify the resource. Otherwise, the resource cannot be found and an error results. |
| resource_first_name                                                                                                                                                                                                                                                                                                                                                                         | String | No | <resource_first_name> | Specifies the first name.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>project_descriptor</b><br>All of the values can be NULL if you do not want to filter on the project.<br>If you want to filter on a project, either the project_id or the project_name should be specified. If the project_id and the project_name are both NULL, the project will default to "Operations Project." An error results if there is no project with name Operations Project. |        |    |                       |                                                                                                                                                                                                                                                                                                                                                                                                     |
| project_id                                                                                                                                                                                                                                                                                                                                                                                  | String | No | <project_ID>          | Specifies the ID for the project.<br>If specified and there are no matches, an error results.                                                                                                                                                                                                                                                                                                       |
| project_name                                                                                                                                                                                                                                                                                                                                                                                | String | No | <project_name>        | Specifies the name for the project.<br>If a project_id value is <i>not</i> specified and a project_name value is specified, then this data is used to help identify the project. An error results if a match is not found.                                                                                                                                                                          |
| project_manager                                                                                                                                                                                                                                                                                                                                                                             | String | No | <project_manager>     | Specifies the name of the manager of the project.                                                                                                                                                                                                                                                                                                                                                   |

|                             |        |     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|--------|-----|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_status              | String | No  | <project_status>  | Specifies the status of the project. Valid values match those configured for your EnterpriseTrack application and there is no default value. Some <i>examples</i> of the status for a project are: <ul style="list-style-type: none"> <li>▶ Active</li> <li>▶ On Hold</li> <li>▶ Cancelled</li> <li>▶ Completed-Post Realization</li> <li>▶ Closed-In Realization</li> </ul>                                                                              |
| project_program             | String | No  | <project_program> | Specifies the name of the program associated with the project.                                                                                                                                                                                                                                                                                                                                                                                            |
| activity_descriptor         | Object | Yes | Not applicable    | This <i>object</i> specifies the details of the activity. At least one value must be specified. See "activity_descriptor" for details.                                                                                                                                                                                                                                                                                                                    |
| <b>activity_descriptor</b>  |        |     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| activity_id                 | String | Yes | <act_ID>          | Specifies the activity ID to match. The value is <i>not</i> case sensitive. For internal activities, this corresponds to the EnterpriseTrack activity ID. For external activities, this corresponds to the unique ID assigned for the activities tracked outside of the EnterpriseTrack. For miscellaneous activities, this corresponds to the Enterprise category name. An error results if no matching activity ID for the specified resource is found. |
| activity_percent_completion | Number | No  | <act_percent>     | Specifies the percentage completion of the activity.                                                                                                                                                                                                                                                                                                                                                                                                      |
| status_descriptor           | Object | No  | Not applicable    | This <i>object</i> specifies the status of the activity. See "status_descriptor" for details.                                                                                                                                                                                                                                                                                                                                                             |

| status_descriptor |        |    |            |                                         |
|-------------------|--------|----|------------|-----------------------------------------|
| status_id         | String | No | <act_ID>   | Provides the ID of the status.          |
| status_desc       | String | No | <act_desc> | Provides the description of the status. |

## Input Examples

The syntax for the UpdateActivity data input parameters is as follows:

```
{
  "global_properties":
  {
    "char_set": "<char_set>",
    "date_format": "<date_format>",
    "language": "<lang>"
    "api_version": "et-integration-api-1.0",
  },
  "application_data":
  {
    "source_application_descriptor":
    {
      "source_app": "<source_App>",
      "source_ref_unique_id": "<source_ID>",
      "source_ref_description": "<source_desc>",
      "source_ref_type": "<source_type>"
    },
    "security_descriptor":
    {
      "authorization_policy": "<auth_policy>",
      "authorization_policy_given_resource_descriptor":
      {
        "resource_id": "<auth_resource_ID>",
        "resource_login_id": "<auth_resource_login_ID>",
        "resource_email": "<auth_resource_email>",
        "resource_last_name": "<auth_resource_last_name>",
        "resource_first_name": "<auth_resource_first_name>"
      }
    },
    "resource_descriptor":
    {
      "resource_id": "<resource_ID>",
      "resource_login_id": "<resource_login_ID>",
      "resource_email": "<resource_email>",

```

```
        "resource_last_name": "<resource_last_name>",
        "resource_first_name": "<resource_first_name>"
    },
    "project_descriptor":
    {
        "project_id": "<project_ID>",
        "project_name": "<project_name>",
        "project_manager": "<project_manager>",
        "project_status": "<project_status>",
        "project_program": "<project_program>",
        "activity_descriptor":
        {
            "activity_id": "<act_ID>",
            "activity_percent_completion": "<act_percent>",
            "status_descriptor":
            {
                "status_id": "<act_ID>",
                "status_desc": "<act_desc>"
            }
        }
    },
    "operation_type": "<op_type>",
    "test_mode": "<test_mode>"
}
}
```

This is an example with values for the placeholders.

```
{
  "global_properties":
  {
    "char_set": "ISO-8859-1",
    "date_format": "",
    "language": "en",
    "api_version": "et-integration-api-1.0",
  },
  "application_data":
  {
    "source_application_descriptor":
    {
      "source_app": "hp quality center",
      "source_ref_unique_id": "WEWEWW1222",
      "source_ref_description": "this is related to calls",
      "source_ref_type": "support call"
    },
    "security_descriptor":
    {
      "authorization_policy": "authorize_with_login_resource",
      "authorization_policy_given_resource_descriptor":
      {
        "resource_id": "JBCDQVW5QMV9F",
        "resource_login_id": "",
        "resource_email": "",
        "resource_first_name": "John",
        "resource_last_name": "Smith"
      }
    },
    "resource_descriptor":
    {
      "resource_id": "JBCDQVW5QMV9F",
      "resource_login_id": "",
      "resource_email": "",
      "resource_first_name": "",
      "resource_last_name": ""
    },
    "project_descriptor":
    {
      "project_id": "1",
      "project_name": "ExampleA",
      "activity_descriptor":
      {
        "activity_id": "JABC5V9JSF4SP",
        "activity_percent_completion": "38",
        "status_descriptor":
        {

```

```

        "status_id": "Closed",
        "status_desc": ""
    }
},
"operation_type": "INTERNAL_ACTIVITY",
"test_mode": "FALSE"
}
}

```

## Output Parameters

The results of the UpdateActivity function are provided in JSON data format. The following table details the name/value pairs.

| Name                      | Data Type | Description                                                                                                                                           |
|---------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| global_properties         | Object    | This <i>object</i> lists the global settings for your EnterpriseTrack instance.<br>See <b>Global Properties Object</b> (on page 11) for more details. |
| application_data          | Object    | This <i>object</i> provides the results.<br>See "application_data" for more details.                                                                  |
| <b>application_data</b>   |           |                                                                                                                                                       |
| et_transaction_id         | String    | Provides the unique EnterpriseTrack transaction ID that is stored in the audit tables.                                                                |
| result_code               | String    | Provides the result code for the completion status of the function.                                                                                   |
| result_reason             | String    | If the function is successful, NULL is returned. Otherwise, the reason for the error is returned.                                                     |
| project_descriptor        | Object    | This <i>object</i> provides the details of the project.<br>See "project_descriptor" for details.                                                      |
| <b>project_descriptor</b> |           |                                                                                                                                                       |
| project_id                | Integer   | Provides the ID for the project.                                                                                                                      |
| project_name              | String    | Provides the name for the project.                                                                                                                    |

| Name                        | Data Type | Description                                                                                    |
|-----------------------------|-----------|------------------------------------------------------------------------------------------------|
| project_manager             | String    | Provides the name of the manager of the project.                                               |
| project_status              | String    | Provides the status of the project.                                                            |
| project_program             | String    | Provides the names of the programs associated with the project.                                |
| activity_descriptor         | Object    | This <i>object</i> contains the details of an activity. See "activity_descriptor" for details. |
| <b>activity_descriptor</b>  |           |                                                                                                |
| activity_id                 | String    | Provides the ID for the activity.                                                              |
| activity_name               | String    | Provides the name of the activity.                                                             |
| activity_status             | String    | Provides the status of the activity.                                                           |
| activity_percent_completion | Number    | Provides the percentage completion of the activity.                                            |
| activity_actual_start_date  | Date      | Provides the actual start date of the activity.                                                |
| activity_actual_end_date    | Date      | Provides the actual end date of the activity.                                                  |

### Output Example

This is an example of the JSON formatted parameters from a successful UpdateActivity function.

```
{
  "global_properties":
  {
    "char_set": "ISO-8859-1",
    "date_format": "MMM/dd/yyyy",
    "language": "en",
    "effort_unit": "hours"
    "api_version": "et-integration-api-1.0",
  }
}
```

```
    },  
  
    "application_data":  
    {  
        "et_transaction_id": "JCDEJ58N2QMKW",  
        "result_code": "SUCCESS",  
        "result_reason": "",  
        "project_descriptor":  
        {  
            "project_id": "1",  
            "project_name": "it_test",  
            "project_manager": "john, smith",  
            "project_status": "Active",  
            "project_program": "",  
            "activity_descriptor":  
            {  
                "activity_id": "JEFGRCSKL3DTH",  
                "activity_name": "Rollout Project Preparation",  
                "activity_status": "Open",  
                "activity_percent_completion": "63",  
                "activity_actual_start_date": "",  
                "activity_actual_end_date": ""  
            }  
        }  
    }  
}
```

# GetFinanceData Function

The GetFinanceData function fetches the data that is equivalent to the "Project Finances Element Monthly Detail Report" and corresponds to the search criteria (filter data) you specify in the input parameters.

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## Invocation Parameters

The parameters for the invocation of the GetFinanceData function are described in the following table. Unless otherwise specified, all values are not case sensitive.

| Name        | Data Type | Placeholder or Constant | Description                                                                      |
|-------------|-----------|-------------------------|----------------------------------------------------------------------------------|
| api_name    | String    | getfinancedata          | Specifies the name of the Integration function.                                  |
| output_type | String    | <output_type>           | CSV<br>XLS                                                                       |
| input_data  | String    | <input_params>          | Specifies the location of the input parameters.<br>This value is case sensitive. |

## Invocation Example

The syntax for the invocation of the GetFinanceData function is as follows:

```
<form action="<api_session>" method="post">
Api Name: <input type="text" name="api_name" value="getfinancedata"><br>
Input Type: <input type="text" name="input_type" value="JSON"><br>
Output Type: <input type="text" name=" output_type" value="JSON"><br>
Input Data: <input type="text" name="input_data"
value="<input_params>"><br>
<input type="submit" value="Submit">
</form>
```

## Input Parameters

The input parameters described in the following table provide the search criteria (filter data) needed to identify the data you want. This information should be provided in the JSON formatted data specified by `<input_params>`. Unless otherwise specified, all values are not case sensitive.

| Name                    | Data Type | Value Required? | Placeholder or Constant                     | Description                                                                                                                 |
|-------------------------|-----------|-----------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| global_properties       | Object    | Yes             | Not applicable                              | This <i>object</i> lists the global settings for your EnterpriseTrack instance. See "global_properties Object" for details. |
| application_data        | Object    | Yes             | Not applicable                              | This <i>object</i> lists the search criteria and provides the results. See "application_data" for details.                  |
| <b>application_data</b> |           |                 |                                             |                                                                                                                             |
| pcs                     | String    | No              | <code>&lt;pcs&gt;</code>                    | Specifies the initiative attribute for the project.                                                                         |
| project_id              | Integer   | No              | <code>&lt;project_ID&gt;</code>             | Specifies the project ID.                                                                                                   |
| project_name            | String    | No              | <code>&lt;project_name&gt;</code>           | Specifies the project name.                                                                                                 |
| project_keyword         | String    | No              | <code>&lt;project_keyword&gt;</code>        | Specifies a keyword associated for the project.                                                                             |
| project_status          | String    | No              | <code>&lt;project_status&gt;</code>         | Specifies one (or more) status values for the project.<br>Multiple values should be separated by commas.                    |
| project_on_time_status  | String    | No              | <code>&lt;project_on_time_status&gt;</code> | Specifies one (or more) status values for the project.<br>Multiple values should be separated by commas.                    |

| Name                              | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                  |
|-----------------------------------|-----------|-----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------|
| project_org_descriptor            | Object    | No              | Not applicable          | This <i>object</i> specifies the organization information. See "project_org_descriptor" for details.                         |
| project_start_date_from           | Date      | No              | <start_from>            | Specifies the beginning date for the range of start dates.<br>This filters on actual (if present) or planned activity date.  |
| project_start_date_to             | Date      | No              | <start_to>              | Specifies the beginning date for the range of start dates.<br>This filters on actual (if present) or planned activity dates. |
| planned_realization_date_from     | Date      | No              | <end_from>              | Specifies the beginning date for the range of end dates.<br>This filters on actual (if present) or planned activity dates.   |
| planned_realization_date_to       | Date      | No              | <end_to>                | Specifies the ending date for the range of end dates.<br>This filters on actual (if present) or planned activity dates.      |
| project_classification_descriptor | Object    | No              | Not applicable          | This <i>object</i> specifies the project classification. See "project_classification_descriptor" for details.                |
| project_methodology_descriptor    | Object    | No              | Not applicable          | This <i>object</i> specifies the project methodology. See "project_methodology_descriptor" for details.                      |

| Name                    | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                                                                                              |
|-------------------------|-----------|-----------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| program                 | String    | No              | <program>               | Restricts the search to include only those projects in this program.                                                                                                                                                     |
| finance_detail_level    | String    | No              | <detail_level>          | Specifies the level of finance elements to report.<br>Valid values are: <ul style="list-style-type: none"><li>▶ Total (default)</li><li>▶ Group</li><li>▶ Category</li><li>▶ Element</li></ul>                           |
| show_upper_levels       | Boolean   | No              | <show_levels>           | If finance_detail_level has a value of Category, this indicates whether or not to include the group in the report.<br>Value values are: <ul style="list-style-type: none"><li>▶ TRUE (default)</li><li>▶ FALSE</li></ul> |
| rpt_currency            | String    | No              | <currency>              | Specifies the type of currency to use.<br>The default is USD.                                                                                                                                                            |
| fin_templates           | String    | No              | <template>              | Specifies one (or more) finance templates to use.<br>Multiple values should be separated by commas.                                                                                                                      |
| finance_date_range_from | Date      | No              | <range_from>            | Specifies the beginning date for the finance data that is to be reported.                                                                                                                                                |
| finance_date_range_to   | Date      | No              | <range_to>              | Specifies the ending date for the finance data that is to be reported.                                                                                                                                                   |
| finance_dataset         | String    | No              | <dataset>               | Specifies which data stream should be considered.<br>Valid values are: <ul style="list-style-type: none"><li>▶ CURRENT (default)</li><li>▶ PLAN</li></ul>                                                                |

| Name                          | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                    |
|-------------------------------|-----------|-----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| finance_snapshot_name         | String    | No              | <snapshot>              | If finance_dataset has a value of PLAN, this specifies the name of the finance snapshot that should be used for the report.                    |
| starting_month                | Date      | No              | <start_mo>              | Specifies the beginning month to be shown in the month-by-month breakdown.<br>The default is the beginning of the <i>previous</i> fiscal year. |
| no_of_months                  | Integer   | No              | <num_mo>                | Specifies the number of months to be included in the month-by-month breakdown.<br>The default is 36.                                           |
| <b>project_org_descriptor</b> |           |                 |                         |                                                                                                                                                |
| division                      | String    | No              | <division>              | Specifies one (or more) level 1 fields configured for the project hierarchy.<br>Multiple values should be separated by commas.                 |
| business_unit                 | String    | No              | <bus_unit>              | Specifies one (or more) level 2 fields configured for the project hierarchy.<br>Multiple values should be separated by commas.                 |
| sub_business_unit             | String    | No              | <sub_unit>              | Specifies one (or more) level 3 fields configured for the project hierarchy.<br>Multiple values should be separated by commas.                 |
| location                      | String    | No              | <location>              | Specifies one (or more) level 4 fields configured for the project hierarchy.<br>Multiple values should be separated by commas.                 |

| Name                                     | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                                                                                                                  |
|------------------------------------------|-----------|-----------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| region                                   | String    | No              | <region>                | Specifies one (or more) level 5 fields configured for the project hierarchy.<br>Multiple values should be separated by commas.                                                                                                               |
| <b>project_classification_descriptor</b> |           |                 |                         |                                                                                                                                                                                                                                              |
| project_source                           | String    | No              | <proj_source>           | Specifies one or more project sources for the associated <i>initiative</i> .<br>Multiple values should be separated by commas.                                                                                                               |
| functional_area                          | String    | No              | <proj_area>             | Specifies one or more functional areas for the associated <i>initiative</i> .<br>Multiple values should be separated by commas.                                                                                                              |
| products                                 | String    | No              | <products>              | Specifies one or more products for the associated <i>initiative</i> .<br>Multiple values should be separated by commas.                                                                                                                      |
| process                                  | String    | No              | <process>               | Specifies one or more processes for the associated <i>initiative</i> .<br>Multiple values should be separated by commas.                                                                                                                     |
| <b>project_methodology_descriptor</b>    |           |                 |                         |                                                                                                                                                                                                                                              |
| phase_type                               | String    | No              | <phase_type>            | Specifies one (or more) top level activities configured for the associated <i>initiative</i> .<br>This field is dependent on the initiative and will be ignored if the initiative is NULL.<br>Multiple values should be separated by commas. |

| Name         | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                                                                                                           |
|--------------|-----------|-----------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_type | String    | No              | <proj_type>             | Specifies one (or more) project types configured for the associated <i>initiative</i> .<br>This field is dependent on the initiative and will be ignored if the initiative is NULL.<br>Multiple values should be separated by commas. |
| roadmap      | String    | No              | <roadmap>               | Specifies one (or more) roadmaps configured for the associated <i>initiative</i> .<br>This field is dependent on the initiative and will be ignored if the initiative is NULL.<br>Multiple values should be separated by commas.      |

## Input Examples

The syntax for the GetFinanceData data input parameters is as follows:

```
{
  "global_properties":
    {
      "char_set": "<char_set>",
      "date_format": "<date_format>",
      "language": "<lang>",
      "api_version": "et-integration-api-1.0",
    },
  "application_data":
    {
      "pcs": "<pcs>",
      "project_id": "<project_ID>",
      "project_name": "<project_name>",
      "project_keyword": "<project_keyword>",
      "project_status": "<project_status>",
      "project_on_time_status": "<project_one_time_status>",
    }
}
```

```
"project_org_descriptor":
{
    "division": "<division>",
    "business_unit": "<bus_unit>",
    "sub_business_unit": "<sub_unit>",
    "location": "<location>",
    "region": "<region>"
},
"project_start_date_from": "<start_from>",
"project_start_date_to": "<start_to>",
"planned_realization_date_from": "<end_from>",
"planned_realization_date_to": "<end_to>",
"project_classification_descriptor":
{
    "project_source": "<proj_source>",
    "functional_area": "<proj_area>",
    "products": "<products>",
    "process": "<process>"
},
"project_methodology_descriptor":
{
    "phase_type": "<phase_type>",
    "project_type": "<proj_type>",
    "roadmap": "<roadmap>"
},
"program": "<program>",
"finance_detail_level": "<detail_level>",
"show_upper_levels": "<show_levels>",
"rpt_currency": "<currency>",
"fin_templates": "<template>",
"finance_date_range_from": "<range_from>",
"finance_date_range_to": "<range_to>",
"finance_dataset": "<dataset>",
"finance_snapshot_name": "<snapshot>",
"starting_month": "<start_mo>",
"no_of_months": "<num_mo>"
}
}
```

This is an example with values for the placeholders.

```
{
  "global_properties":
  {
    "char_set": "utf-8",
```

```
        "date_format": "yyyy/MM/dd",
        "language": "en"
        "api_version": "et-integration-api-1.0",
    },

    "application_data":
    {
        "pcs": "it",
        "project_id": "1",
        "project_name": "",
        "project_keyword": "",
        "project_status": "",
        "project_on_time_status": "",
        "project_org_descriptor":
        {
            "division": "",
            "business_unit": "",
            "sub_business_unit": "",
            "location": "",
            "region": ""
        },
        "project_start_date_from": "",
        "project_start_date_to": "",
        "planned_realization_date_from": "",
        "planned_realization_date_to": "",
        "project_classification_descriptor":
        {
            "project_source": "",
            "functional_area": "",
            "products": "",
            "process": ""
        },
        "project_methodology_descriptor":
        {
            "phase_type": "",
            "project_type": "",
            "roadmap": ""
        },
        "program": "",
        "finance_detail_level": "TOTAL",
        "show_upper_levels": "TRUE",
        "rpt_currency": "",
        "fin_templates": "",
        "finance_date_range_from": "",
        "finance_date_range_to": "",
    }
}
```

```
        "finance_dataset": "CURRENT",
        "finance_snapshot_name": "PLAN",
        "starting_month": "",
        "no_of_months": "12"
    }
}
```

### Output Parameters

The output of the GetFinanceData function is provided in a file that uses either CSV or XLS data format.

### Output Example

The CSV and XLS files from a successful GetFinanceData function provide the data as two rows of data. The first row provides the names of the fields in the report, and the second row provides the values for the corresponding fields.

An exceptionally simplified excerpt from a CSV file is as follows:

```
Project Id,Project Name,Initiative,Project Status,...,Mar/2013,Apr/2013
4,COST_Basic_External,IT,Active,... 0.00,0.00
```

# Timesheet Functions

The Timesheet Detail report can be rendered to extract timesheet data or timesheet corrections data using the following functions respectively.

- ▶ GetTimesheetData
- ▶ GetTimesheetCorrections

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## getTimesheetData Function

The getTimesheetData function extracts timesheet data for the Timesheet Detail report.

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## Invocation Syntax

The syntax for the invocation of the getTimesheetData function is as follows.

```
<form action="<api_session>" method="post">
Api Name: <input type="text" name="api_name"
value="getTimesheetData"><br>
Input Type: <input type="text" name="input_type" value="JSON"><br>
Output Type: <input type="text" name=" output_type" value="JSON"><br>
Input Data: <input type="text" name="input_data"
value="<input_params>"><br>
<input type="submit" value="Submit">
</form>
```

## Invocation Parameters

The parameters for the invocation of the `GetTimesheetData` function are described in the following table. Unless otherwise specified, all values are not case sensitive.

| Name        | Data Type | Placeholder or constant     | Description                                                                                                                                                                   |
|-------------|-----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| api_name    | String    | <i>getTimesheetData</i>     | The name of the timesheet function.                                                                                                                                           |
| output_type | String    | <i>&lt;output_type&gt;</i>  | Specifies the data format of the output. The report output can be generated in the following formats: <ul style="list-style-type: none"> <li>▶ CSV</li> <li>▶ XLSX</li> </ul> |
| Input_data  | String    | <i>&lt;input_params&gt;</i> | The location of the input parameters file. This value is case sensitive.                                                                                                      |

## Input Parameters

The input parameters described in the following table provide the search criteria (filter data) needed to identify the data for the Timesheet Detail report. This information should be provided in JSON formatted data specified by *<input\_params>*. Unless otherwise specified, all values are not case sensitive.

| Name                | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                                                                                        |
|---------------------|-----------|-----------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| report_format       | String    | Yes             | Not applicable          | The report format. Corresponds to the Show Actual Effort breakdown at day level filter on the report. Valid values include: <ul style="list-style-type: none"> <li>▶ Summary</li> <li>▶ Daily (default)</li> </ul> |
| timesheet_from_date | Date      | Yes             |                         | The start date of the Timesheet Detail report. Corresponds to the Timesheet From Date filter on the report.                                                                                                        |
| timesheet_to_date   | Date      | Yes             |                         | The end date of the Timesheet Detail report. Corresponds to the Timesheet To Date filter on the report.                                                                                                            |

| Name                                    | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                                                            |
|-----------------------------------------|-----------|-----------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| report_project_time                     | String    |                 |                         | Corresponds to the Show Project Overhead Categories filter on the report. Defaults to Yes.                                                                                             |
| report_non_project_and_non_working_time | String    |                 |                         | Corresponds to the Show Non-project Overhead Categories filter on the report. Defaults to Yes.                                                                                         |
| report_activity_time                    | String    |                 |                         | Corresponds to the Show Activity Details filter on the report. Defaults to Yes                                                                                                         |
| report_zero_effort_rows                 | String    |                 |                         | Corresponds to the Suppress rows where Actual Total Effort is zero filter on the report. Defaults to No.                                                                               |
| report_cost                             | String    |                 |                         | Corresponds to the Show Cost filter on the report. Defaults to Yes.                                                                                                                    |
| report_disabled_categories              | String    |                 |                         | Corresponds to the Include disabled Time Reporting Categories filter on the report. Defaults to Yes.                                                                                   |
| timesheet_statuses                      | String    |                 |                         | Corresponds to the Timesheet Status filter on the report. Specify as comma-separated values.                                                                                           |
| timesheet_submitter                     | Object    | Yes             |                         | Corresponds to the Submitter filter on the report. Enter the first name or the last name. The first matching resource will be used. Only one submitter can be specified on the report. |
| timesheet_approver                      | Object    | Yes             |                         | Corresponds to the Approver filter on the report. Enter the first name or the last name. The first matching resource will be used. Only one approver can be specified on the report.   |

| Name                                    | Data Type | Value Required? | Placeholder or Constant | Description                                                                             |
|-----------------------------------------|-----------|-----------------|-------------------------|-----------------------------------------------------------------------------------------|
| pcs                                     | String    |                 |                         | Corresponds to the Initiative filter on the report. Specify comma-separated values.     |
| Project_id                              | String    | Yes             |                         | Corresponds to the Project ID filter on the report.                                     |
| project_name                            | String    |                 |                         | Corresponds to the Project Name filter on the report.                                   |
| project_keyword                         | String    |                 |                         | Corresponds to the Keyword filter on the report. Specify comma-separated values.        |
| project_status                          | String    |                 |                         | Corresponds to the Project Status filter on the report. Specify comma-separated values. |
| project_org_descripto-division          | String    |                 |                         | Corresponds to the Division filter on the report. Specify comma-separated values.       |
| project_org_descripto-business_unit     | String    |                 |                         | Corresponds to the Business Unit filter on the report. Specify comma-separated values.  |
| project_org_descripto-sub_business_unit | String    |                 |                         | Corresponds to the Sub unit filter on the report. Specify comma-separated values.       |
| project_org_descripto-location          | String    |                 |                         | Corresponds to the Location filter on the report. Specify comma-separated values.       |
| project_org_descripto-region            | String    |                 |                         | Corresponds to the Region filter on the report. Specify comma-separated values.         |
| resource_login_id                       | String    |                 |                         | Corresponds to the Login ID filter on the report.                                       |
| resource_email                          | String    |                 |                         | Corresponds to the Email filter on the report.                                          |
| resource_last_name                      | String    |                 |                         | Corresponds to the Last Name filter on the report.                                      |

| Name                                       | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                                           |
|--------------------------------------------|-----------|-----------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_title                             | String    |                 |                         | Corresponds to the Access Profile filter on the report. Specify multiple Access Profiles as comma-separated values.                                                   |
| resource_area_of_expertise                 | String    |                 |                         | Corresponds to the Area of Expertise filter on the report.                                                                                                            |
| resource_manager                           | Object    |                 |                         | Corresponds to the Manager filter on the report. Enter the first name or the last name. The first matching resource will be used. Multiple managers can be specified. |
| program                                    | String    |                 |                         | Corresponds to the Program filter on the report. Specify multiple programs as comma-separated values.                                                                 |
| resource_org_descriptor->division          | String    |                 |                         | Corresponds to the Division filter on the report. Specify multiple divisions as comma-separated values.                                                               |
| resource_org_descriptor->business_unit     | String    |                 |                         | Corresponds to the Business Unit filter on the report. Specify multiple business units as comma-separated values.                                                     |
| resource_org_descriptor->sub_business_unit | String    |                 |                         | Corresponds to the Sub unit filter on the report. Specify multiple sub units as comma-separated values.                                                               |
| resource_org_descriptor->location          | String    |                 |                         | Corresponds to the Location filter on the report. Specify multiple locations as comma-separated values.                                                               |
| resource_org_descriptor->region            | String    |                 |                         | Corresponds to the Region filter on the report. Specify multiple regions as comma-separated values.                                                                   |

| Name                     | Data Type | Value Required? | Placeholder or Constant | Description                                                                                                                                                                                           |
|--------------------------|-----------|-----------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| labor_expense_type       | String    |                 |                         | Corresponds to the Labor Expense Type filter on the report. Specify multiple labor expense types as comma-separated values.                                                                           |
| labor_expense_category   | String    |                 |                         | Corresponds to the Labor Expense Category filter on the report. Specify multiple labor expense categories as comma-separated values.                                                                  |
| report_currency          |           | Yes             |                         | Corresponds to the Reporting Currency filter on the report. Defaults to the system currency unit.                                                                                                     |
| output_custom_field_list |           |                 |                         | Corresponds to the Output Custom Fields filter on the report. Specify a list of custom fields to be included in the report output. Multiple custom fields can be specified as comma-separated values. |

### Input Example in JSON Format

The syntax for the GetTimesheetData data input parameters is as follows.

```
{
  "global_properties":{"char_set":"ISO-8859-1",
    "date_format":"yyyy/MM/dd",
    "language":"",
    "api_version":"et-integration-api-1.0"
  },
  "application_data":
  {
    "timesheet_from_date":"2014/02/01",
    "timesheet_to_date":"2014/02/28",
    "timesheet_status":"Approved,Submitted",
```

```
"timesheet_submitter":{"first_name":"","last_name":""},
"timesheet_approver":{"first_name":"","last_name":""},
"pcs":"","
"project_id":"","
"project_name":"","
"project_keyword":"","
"project_status":"","
"project_org_descriptor":
{
    "division":"","
    "business_unit":"","
    "sub_business_unit":"","
    "location":"","
    "region":""
},
"resource_login_id":"","
"resource_email":"","
"resource_last_name":"","
"resource_title":"","
"resource_area_of_expertise":"","
"resource_manager":
[
    {"first_name":"","last_name":""},
    {"first_name":"","last_name":""}
],
"resource_org_descriptor":
{
    "division":"","
    "business_unit":"","
    "sub_business_unit":"","
    "location":"","
    "region":""
},
"rpt_currency":"","
```

```
    "labor_expense_type": "",
    "labor_expense_category": "",
    "program": "",
    "report_format": "Daily",
    "report_project_time": "Yes",
    "report_non_project_and_non_working_time": "Yes",
    "report_activity_time": "Yes",
    "report_zero_effort_rows": "No",
    "report_cost": "Yes",
    "report_disabled_categories": "Yes",
    "output_custom_field_list": ""
  }
}
```

## Output

The Timesheet Detail report data is output in CSV or XLSX formats based on the filter criteria specified.

## Output example

The CSV and XLS files from a successful GetTimesheetData function provide the data as two rows of data. The first row provides the names of the fields in the report, and the second row provides the values for the corresponding fields.

An exceptionally simplified excerpt from a CSV file is as follows:

```
Location,Location Chargeback Code,Region,Region Chargeback Code,Project
Id,Project Name,Project Manager,Project Type,Actual Standard
Effort,Actual Standard Cost,
Fairfield CT,80,North America,10,TimeSheet Data Report,John
Doe,IT,10,0,150000
```

## getTimesheetCorrections Function

Extracts the Timesheet Detail Report with corrections data.

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## Invocation Syntax

The syntax for the invocation of the getTimesheetCorrections function is as follows.

```
<form action="<api_session>" method="post">
Api Name: <input type="text" name="api_name"
value="getTimesheetCorrections"><br>
Input Type: <input type="text" name="input_type" value="JSON"><br>
Output Type: <input type="text" name=" output_type" value="JSON"><br>
Input Data: <input type="text" name="input_data"
value="<input_params>"><br>
<input type="submit" value="Submit">
</form>
```

## Invocation Parameters

The parameters for the invocation of the GetTimesheetCorrections function are described in the following table. Unless otherwise specified, all values are not case sensitive.

| Name        | Data Type | Placeholder or constant        | Description                                                                                                                                                                   |
|-------------|-----------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| api_name    | String    | <i>GetTimesheetCorrections</i> | The name of the timesheet function.                                                                                                                                           |
| output_type | String    | <i>&lt;output_type&gt;</i>     | Specifies the data format of the output. The report output can be generated in the following formats: <ul style="list-style-type: none"> <li>▶ CSV</li> <li>▶ XLSX</li> </ul> |
| Input_data  | String    | <i>&lt;input_params&gt;</i>    | The location of the input parameters file. This value is case sensitive.                                                                                                      |

## Input Parameters

Input parameters for the Timesheet Detail Report with Corrections are identical to those listed in the table for the Timesheet Detail Report using the `getTimesheetData` API. Additionally, the following input parameters listed below must be specified for extracting the Timesheet Detail Report with Corrections.

| Name                 | Data Type | Value Required? | Placeholder or Constant | Description                                                   |
|----------------------|-----------|-----------------|-------------------------|---------------------------------------------------------------|
| correction_from_date | Date      | Yes             | Not applicable          | Corresponds to the Correction From Date filter on the report. |
| correction_to_date   | Date      | Yes             | Not applicable          | Corresponds to the Correction To Date filter on the report.   |

## Input Example in JSON Format

The syntax for the `GetTimesheetCorrections` input parameters is as follows.

```
{
  "global_properties":{"char_set":"ISO-8859-1",
    "date_format":"yyyy/MM/dd",
    "language":"",
    "api_version":"et-integration-api-1.0"
  },
  "application_data":
  {
    "timesheet_from_date":"2014/02/01",
    "timesheet_to_date":"2014/02/28",
    "correction_from_date":"2014/02/20",
    "correction_to_date":"2014/02/20",
    "timesheet_status":"Approved,Submitted",
    "timesheet_submitter":{"first_name":"","last_name":""},
    "timesheet_approver":{"first_name":"","last_name":""},
    "pcs":"","
    "project_id":"","
    "project_name":"","
    "project_keyword":"","
```

```
"project_status": "",
"project_org_descriptor":
{
    "division": "",
    "business_unit": "",
    "sub_business_unit": "",
    "location": "",
    "region": ""
},
"resource_login_id": "",
"resource_email": "",
"resource_last_name": "",
"resource_title": "",
"resource_area_of_expertise": "",
"resource_manager":
[
    {"first_name": "", "last_name": ""},
    {"first_name": "", "last_name": ""}
],
"resource_org_descriptor":
{
    "division": "",
    "business_unit": "",
    "sub_business_unit": "",
    "location": "",
    "region": ""
},
"rpt_currency": "",
"labor_expense_type": "",
"labor_expense_category": "",
"program": "",
"report_format": "Daily",
"report_project_time": "Yes",
"report_non_project_and_non_working_time": "Yes",
```

```
    "report_activity_time": "Yes",
    "report_zero_effort_rows": "No",
    "report_cost": "Yes",
    "report_disabled_categories": "Yes",
    "output_custom_field_list": ""
  }
}
```

## Output

The Timesheet Detail Report with corrections data is output in CSV or XLSX formats based on the filter criteria specified.

## Output Example

The CSV and XLSX files from a successful GetTimesheetCorrections function provide the data as two rows of data. The first row provides the names of the fields in the report, and the second row provides the values for the corresponding fields.

An exceptionally simplified excerpt from a CSV file is as follows:

```
Location,Location Chargeback Code,Region,Region Chargeback Code,Project
Id,Project Name,Project Manager,Project Type,Actual Standard
Effort,Actual Standard Cost,
Fairfield CT,80,North America,10,TimeSheet Data Report,John
Doe,IT,10,0,150000
```

# Automated Data Upload

Automated data upload enables you to set up programs to automatically upload data files and receive the response in a standard format. You can use this to parse or interpret data with other third-party applications.

**Note:** Only data uploads that are supported via the UI are also supported using the API.

The following functions are used to perform automate data uploads:

- ▶ receivedata
- ▶ getStatus

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## receivedata Function

Invoke the receivedata function to begin the automated data upload process by specifying the data upload files and generating a unique ID for the data upload process.

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## Invocation Syntax

The syntax for the invocation of automated data upload is:

```
<form method=POST ENCTYPE="multipart/form-data"
action="http://<server>/SiteWand/Submission/<account_name>/dataupload/a
utomatedupload/receivedata">User Login <input type=text
name='user_login_id' value='' />Password <input type=password
name='password' value='' /> Delimiter <input type=text name='delimiter'
value=', ' /> Encoding <input name = "encoding_type" value="UTF-8">
Entity_Name1 <input type=text name='entity_name1' value='user' />
File_Name1 <input type=file name='file_name1' />Entity_Name2 <input
type=text name='entity_name2' value='user' /> File_Name2 <input type=file
name='file_name2' />
....
Entity_Name15 <input type=text name='entity_name15' value='user' />
File_Name15 <input type=file name='file_name15' /> <input type = 'submit'
value='Submit' /></form>
```

### Invocation Example

<https://abc123.com/SiteWand/Submission/jdoe/dataupload/automatedupload/receivedata?>

```
<form method=POST ENCTYPE="multipart/form-data"
action="http://abc123.com/SiteWand/Submission/jdoe/dataupload/automated
upload/receivedata">User Login <input type=text name='user_login_id'
value=jdoe/>Password<input type=password name='password' value=</>/>
Delimiter <input type=text name='delimiter' value=', ' /> Encoding <input
name = "encoding_type" value="UTF-8">Entity_Name1 <input type=text
name='entity_name1' value='project' />File_Name1 <input type=file
name='file_name1' />Entity_Name2 <input type=text name='entity_name2'
value='user' />File_Name2 <input type=file name='file_name2' /><input type
= 'submit' value='Submit' /></form>
```

### Invocation Parameters

The following invocation parameters can be specified for receivedata:

| Name                 | Description                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>server</i>        | Specifies the IP address or hostname of the server hosting your EnterpriseTrack instance.                                                                                                  |
| <i>account_name</i>  | Specifies the account name (or company name) of your Specifies your EnterpriseTrack login ID.<br>The case sensitivity for this value conforms to that used by your EnterpriseTrack system. |
| <i>user_login_id</i> | Specifies your EnterpriseTrack login ID.<br>The case sensitivity for this value conforms to that used by your EnterpriseTrack system.                                                      |

| Name                                | Description                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>password</i>                     | Specifies the password corresponding to your EnterpriseTrack login ID.<br>The case sensitivity for this value conforms to that used by your EnterpriseTrack system.                                                                                                                                                                         |
| encoding_type                       | Specifies the character encoding type that is specific to your account.<br>Possible values: UTF-8, UTF-16, or ISO-8859-1.                                                                                                                                                                                                                   |
| delimiter                           | Specifies the csv delimiter. The possible values are: "," and ".".                                                                                                                                                                                                                                                                          |
| decimal_symbol                      | Specifies the decimal symbol. The possible values are: "," and ".".                                                                                                                                                                                                                                                                         |
| trim_trailing_spaces                | Choose if you want to trim trailing spaces. You can select true or false.                                                                                                                                                                                                                                                                   |
| trim_leading_spaces                 | Choose if you want to trim leading spaces. You can select true or false.                                                                                                                                                                                                                                                                    |
| entity_name <1> to entity_name <15> | The name of the entity being submitted for an upload. A maximum of 15 entities can be uploaded in a single instance. Each entity name must have a file_name associated with it. Refer to the table below for a list of entities that you can upload.                                                                                        |
| file_name<1> to file_name <15>      | The name of the file being uploaded. Data upload files must be submitted as .csv or .zip files. A maximum of 15 data files can be uploaded in a single instance.                                                                                                                                                                            |
| is_update_allowed                   | Allows updates to data or only adding new projects/users to the system. Valid values are: <ul style="list-style-type: none"> <li>▶ True = (default) updates an existing record with new values from import data. Otherwise, adds a new record.</li> <li>▶ False = Fails import for existing records. Otherwise adds new records.</li> </ul> |
| Id                                  | Unique id (Transaction id). This is required, when user wants to track transaction which was initiated earlier.                                                                                                                                                                                                                             |

| Name                       | Description                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| do_upload_on_error_records | Allows data upload on error records also. Valid values are: <ul style="list-style-type: none"><li>▶ True = (default) The data will import only the error-free records.</li><li>▶ False = The data upload process will abort if error records are found.</li></ul> |

| Entity Name<br>(entity_name <n>) | Possible Values            |
|----------------------------------|----------------------------|
| Ideas                            | Idea.                      |
| Charters                         | Charter                    |
| Charter Team                     | charter_team.              |
| Charter Documents                | charter_documents.         |
| Projects                         | project                    |
| Project Team                     | project_team               |
| Team Allocation                  | project_team_allocation    |
| Project Dates                    | phase_date                 |
| Aggregate/Yearly Finance         | project_annualized_finance |

| Entity Name<br>(entity_name <n>)              | Possible Values                             |
|-----------------------------------------------|---------------------------------------------|
| Monthly Finance                               | project_finance                             |
| Aggregate/Yearly Finance Snapshot             | project_annualized_finance_snapshot         |
| Monthly Finance Snapshot                      | project_monthly_finance_snapshot            |
| Documents                                     | project_doc                                 |
| Notes                                         | project_note                                |
| Multiple Org Hierarchy                        | project_multiorg                            |
| Incremental Documents                         | project_incremental_docs                    |
| Incremental Monthly Finance                   | project_incremental_monthly_finance         |
| Incremental Aggregate/Yearly Finance          | project_incremental_annual_finance          |
| Incremental Monthly Finance Snapshot          | project_incremental_finance_snapshot        |
| Incremental Aggregate/Yearly Finance Snapshot | project_annual_incremental_finance_snapshot |
| Incremental Notes                             | project_incremental_notes                   |
| Resources                                     | User                                        |
| Roles                                         | user_role                                   |
| Certifications                                | user_certification                          |
| Resource Update                               | UpdatedUsers                                |
| Role Update                                   | UpdatedUserRoles                            |

| Entity Name<br>(entity_name <n>)          | Possible Values                                                 |
|-------------------------------------------|-----------------------------------------------------------------|
| Resource<br>Certification<br>Update       | updated_user_certifications                                     |
| Incremental<br>Resource<br>Certifications | user_incremental_certifications                                 |
| Alignment 1                               | strategy_1<br>Add for all alignments configured in the account. |
| Measure                                   | Measure                                                         |
| Measure<br>Incremental Data               | measure_data                                                    |
| Incremental<br>Alignment                  | strategy_alignment                                              |

---

**Note:** The possible values for entity names (ex: entity\_name 1/entity\_name2 attributes) "entities\_alignment\_tree" value is always "" for all entities except for "alignment" entities.

---

## Output

On successful login the receivedata function returns a unique ID value which can be used to check the status of the data upload.

## Output Examples

If the data upload is received successfully, a response is received in the following format:

```
<response>
  <message>Received data successfully</message>
  <uniqueid>ZHR98374GT</uniqueid>
</response>
```

If authentication or data upload is not received successfully, a response is received in the following format:

```
<response>
  <error>invalid login ID or password.</error>
</response>
```

## getstatus Function

The getstatus function displays the current status of the data upload process. The unique ID generated by the receivedata function is required to determine the status of the data upload.

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### Invocation Syntax

The syntax for the invocation of the status of the automated data upload is:

**Note:** Use the unique ID that was returned as part of the receivedata function as a parameter to get status.

`https://<server>/Sitewand/Submission/<account_name>/dataupload/automatedupload/getstatus?id=<receivedata_generated_unique id>`

### Invocation Example

Using the unique ID generated from the previous example for receivedata function, a successful invocation of getstatus function displays as follows:

`https://abc123.com/Sitewand/Submission/jdoe/dataupload/automatedupload/getstatus?id= ZHR98374GT`

### Output

If the data upload is successful, the unique ID and a successful message is displayed in XML format. If there are authentication errors or the data upload is not successful, and an error message is displayed in XML format.

### Output Examples

On completing a data upload successfully, the following response displays:

```
<response>
  <status>Completed</status>
</response>
```

If the data upload process is ongoing, the following response displays for the unique ID:

```
<response>
  <status>In process</status>
</response>
```

The result from a successful project data upload in XML format is similar to the following.

```
<response>
  <status>Completed</status>
  <projects>
    <uploadstats>
      <errorrecords>0</errorrecords>
    </uploadstats>
  </projects>
</response>
```

For a file upload error, the output response in XML format displays as shown below:

```
<response>
  <status>Completed</status>
  <error type='upload'>
    <message>Error message</message>
  </error>
</response>
```

# Preconfigured Remote Reports

EnterpriseTrack includes a collection of reports that extract data. This data can be used periodically and programmatically for reporting or integration purposes.

## In This Section

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## Filtering and Setting Parameters for Standard Reports

The following steps will help you identify and modify report filters before executing remote reports via API.

### Identifying Filter Parameters

To identify the filter parameters you can change via API:

- 1) Log in to your EnterpriseTrack application. You must have permissions to access the **Reports** module.
- 2) From the Top Navigation Bar, select **Reports > Standard Reports**.
- 3) From the **List** pane, select a report by clicking on its name.
- 4) Click the **Filter** tab on the **Details** pane.
- 5) Click the **View JSON** button near the bottom of the **Filter** tab. Use the JSON to identify the filters that you can set. Only the filters specified in the JSON can be set via API.

### Modifying Filter Parameters

To modify filter parameters:

- 1) Open a text editor and paste the JSON.
- 2) Make changes to the JSON.

For filters that are of type List, separate the values using a | symbol, for example {"pcs": "Six Sigma|IT"}. The following filters are of type List and support multiple values: title, status, area\_of\_expertise\_list, pcs, level1, level 2, level3, level4, level5, functional\_area, project\_source, process, product, project\_on\_time\_status, project\_manager, funnel\_status, idea\_status, pcs\_idea, and activity status.

For filters that are initiative specific and have values that unique within an initiative, separate them using ~. For example, if you want to specify a single role within an initiative, use: {"role": "Six Sigma~Black Belt"}. If you want to specify multiple roles that are initiative specific, separate each role with a |, for example: {"role": "Six Sigma~Black Belt|Six Sigma~Project Leader"}. The following fields are initiative specific: role\_multilist, phase\_type, project\_type, roadmap, activity\_type, and nonwbs\_activity type.

**Notes:**

- In the JSON only include the parameter tags you want to change. The filter parameters and values in the JSON will override the values specified in the UI. If a parameter tag is not specified in the JSON, then the value specified in the UI is used; and if a parameter tag has a null value, then all options are available.
  - Enter the date in the format that is specific to your configuration.
- 

## Invoking Remote Reports

Use the Post method to submit the form fields to the following URL:

`https://<server>/Sitewand/Submission/<account_name>/etws/ReportRPC`

| Form Field         | Description                                                                                                                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| command            | execute                                                                                                                                                                                                                    |
| login_id           | Your EnterpriseTrack login ID.<br>The case sensitivity for this value conforms to that used by your EnterpriseTrack system.                                                                                                |
| password           | Your EnterpriseTrack password<br>The case sensitivity for this value conforms to that used by your EnterpriseTrack system.                                                                                                 |
| report_name        | The name of the report.<br>For adhoc reports, you can get the report path by navigating to the <b>Reports&gt; Adhoc Reports</b> module and running the required report. The report path is displayed in the report output. |
| report_filter_json | Copy the JSON from the report Filter tab. For more information, see topic Filtering and Setting Parameters.                                                                                                                |

---

**Note:** The /Sitewand/Submission portion of the URL *is* case sensitive. Unless otherwise noted, all other text in the URL *is not* case sensitive.

---

The following is an example with values for the placeholders:

`https://ABC.example.com/Sitewand/Submission/CompanyDEF/etws/ReportRPC`

## Output Result Codes

The output of the function call is a stream of content type determined by the report's output. If the report output is HTML, then the output is a text/html stream. If the report output is Excel, then the output is a binary stream of content type application/vnd.ms-excel.

**Note:** The error codes listed below are not displayed when CRUD APIs are executed, instead an error message is displayed on the HTML page.

| Result Code                   | Result Reason                                                     | Description                | Corrective Action                                                                                                                                             |
|-------------------------------|-------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ERR_APPROVED_TIMESHEET_EXISTS | Once a timesheet has been approved, no updates can be made.       | Timesheet already approved | From an interactive EnterpriseTrack session, re-open the timesheet. Updates can then be made from either an interactive session or using the Integration API. |
| ERR_AUTHENTICATION            | Invalid login information.                                        | Login failed               | Specify valid (case sensitive) values for both of the following:<br>▶ user_login_id=<login_id><br>▶ password=<pwd>                                            |
|                               | Login ID is required. Please provide a value.                     | Login ID required          |                                                                                                                                                               |
|                               | Password is required. Please provide a value.                     | Password required          | Specify valid (case sensitive) values for both of the following:<br>▶ user_login_id=<login_id><br>▶ password=<pwd>                                            |
|                               | The login ID/password combination is not valid. Please try again. | Password expired           | Reset or obtain a new password.                                                                                                                               |
|                               | Unauthorized access to the integrate-dispatcher.                  | Not logged in              | Verify that you are logged in successfully before executing the API.                                                                                          |

| Result Code                     | Result Reason                                                                                                                                                                                                    | Description                                 | Corrective Action                                                                                                                                                                                                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ERR_AUTHORIZATION_POLICY        | Authorization policy cannot be blank.                                                                                                                                                                            | Authorization policy required               | Specify one of the following values: <ul style="list-style-type: none"><li>▶ authorize_with_login_resource</li><li>▶ authorize_with_record_locator_resource</li><li>▶ authorize_with_authorization_policy_given_resource</li></ul> |
|                                 | The authorization policy code passed is invalid, it should have the value as "authorize_with_login_resource", "authorize_with_record_locator_resource", or "authorize_with_authorization_policy_given_resource". | Invalid authorization policy                |                                                                                                                                                                                                                                    |
|                                 | The user credentials (provided in Authorization_Policy_User_Source) do not match to any existing user in the system.                                                                                             | Could not authorize user                    | Specify valid (case sensitive) values for both of the following: <ul style="list-style-type: none"><li>▶ user_login_id=&lt;login_id&gt;</li><li>▶ password=&lt;pwd&gt;</li></ul>                                                   |
|                                 | The user credential provided does not have permission to Execute APIs as Proxy.                                                                                                                                  | Insufficient permission for authorized user | Obtain the necessary permission(s).                                                                                                                                                                                                |
|                                 | In case of timesheet operation, the authorization resource should be same as resource whose effort is being updated.                                                                                             | Users did not match                         | Log in with the credentials of the resource whose effort is being updated.                                                                                                                                                         |
| ERR_BLANK_WORK_AS_SIGNMENT_DESC | The activity name is missing.                                                                                                                                                                                    | Activity name required                      | Specify a value for activity name.                                                                                                                                                                                                 |

| Result Code                                          | Result Reason                                                                                      | Description                                        | Corrective Action                                                                                                                                                         |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ERR_BLANK_WORK_AS<br>SIGNMENT_ID                     | The external work assignment ID is missing.                                                        | External work assignment ID required               | Specify a value for external work assignment ID.                                                                                                                          |
| ERR_BLANK_WORK_AS<br>SIGNMENT_TYPE                   | The activity type is missing.                                                                      | Activity type required                             | Specify a value for activity type.                                                                                                                                        |
| ERR_CANNOT_ASSIGN<br>_RESOURCE_AS_ACTIV<br>ITY_OWNER | Resource cannot be assigned as activity owner due to allowed role restriction for this activity.   | Unable to assign given resource as activity owner. | Verify that the resource role has the necessary permission(s), or retry with a different role and resource.                                                               |
| ERR_INVALID_ACTIVITY<br>_PERCENT_COMPLETI<br>ON      | The activity percent completion should have a valid numeric value between 0 and 100.               | Invalid activity percent completion value          | Verify that you specified an integer or floating point value between 0 and 100 (inclusive).                                                                               |
| ERR_INVALID_ACTIVITY<br>_STATUS                      | The activity status passed is not valid.                                                           | Invalid activity status                            | Determine what values are configured for your EnterpriseTrack application. Then, specify one of the configured values.                                                    |
| ERR_INVALID_AET_FO<br>R_ACTIVITY                     | The activity AET should be one of Timesheet, Resource Level (Detail), or Resource Level (Summary). | Invalid activity effort type                       | Specify one of the following values: <ul style="list-style-type: none"> <li>▶ Timesheet</li> <li>▶ Resource Level (Detail)</li> <li>▶ Resource Level (Summary)</li> </ul> |
| ERR_INVALID_API                                      | The Integration function name that you specified is not valid.                                     | Invalid function name                              | <ul style="list-style-type: none"> <li>▶ If you have not successfully logged in, all function names (other than Login) are considered invalid.</li> </ul>                 |
|                                                      | Integration function name is required. Please provide a value.                                     | API function name required.                        |                                                                                                                                                                           |

| Result Code                      | Result Reason                                                                                  | Description                           | Corrective Action                                                                                                                                                                                                                   |
|----------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ERR_INVALID_API_VERSION          | The API version information you specified is not supported.                                    | Invalid API version number            | Specify the following value as et-integration-api-1.0.                                                                                                                                                                              |
|                                  | API version is missing. Please provide valid API version.                                      | API version required.                 |                                                                                                                                                                                                                                     |
| ERR_INVALID_CONFIG               | The API '{api_name}' does not have any configured permission.                                  | Invalid permission.                   | Obtain the necessary permissions.                                                                                                                                                                                                   |
| ERR_INVALID_CONFIG_ACTIVITY_TYPE | The associated project initiative does not have the activity type configured as "EXTERNAL_WA." | No matching external work assignment. | Contact your EnterpriseTrack administrator and request that the application be configured to allow integration activities.                                                                                                          |
|                                  | The work assignment type passed is invalid. It should have the value as INTERNAL or EXTERNAL.  | Invalid work assignment type.         | Contact your EnterpriseTrack administrator and request that the application be configured to allow integration activities.                                                                                                          |
| ERR_INVALID_DATA                 | The format of your JSON data is not correct.                                                   | Invalid data format.                  | Verify that: <ul style="list-style-type: none"><li>▶ The format you specified corresponds to the format of the data you provided.</li><li>▶ The format of the data you provided conforms to the standard for that format.</li></ul> |
|                                  | Input data is required. Please provide a value.                                                | Input data required.                  |                                                                                                                                                                                                                                     |
|                                  | The information provided did not identify a unique category for timesheet data.                | More category data required.          |                                                                                                                                                                                                                                     |

| Result Code             | Result Reason                                                                                                    | Description                         | Corrective Action                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Invalid location for char-set. It should be first attribute in global-properties.                                | Invalid char-set location.          | <ul style="list-style-type: none"> <li>▶ You have actually provided data, or included enough data to identify a unique result.</li> </ul>                                        |
|                         | Invalid char_set. System supports the format: {encoding_format}                                                  | Unsupported char-set                |                                                                                                                                                                                  |
|                         | The date cannot be blank.                                                                                        | Date required                       | Specify a value for the date.                                                                                                                                                    |
| ERR_INVALID_DATE_FORMAT | The format of the data you provided does not correspond to the format specified in the global_properties object. | Invalid date format                 | Verify that the format you specified corresponds to the format of the data you provided.                                                                                         |
|                         | The date format cannot be blank.                                                                                 | Date format required                | Specify a value for the date format.                                                                                                                                             |
| ERR_INVALID_DATE_PERIOD | Data cannot be entered for the week earlier than project start week.                                             | Date before project start date      | Verify that the: <ul style="list-style-type: none"> <li>▶ Date is not earlier than the project start date.</li> <li>▶ Date is not after the project realization date.</li> </ul> |
|                         | Data cannot be entered for the week later than project realization week.                                         | Date after project realization date |                                                                                                                                                                                  |
| ERR_INVALID_DIVISION    | The values given for project {divisionUIName} field are not valid.                                               | Invalid division                    | Specify a valid division.                                                                                                                                                        |

| Result Code                     | Result Reason                                                                                                            | Description                              | Corrective Action                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| ERR_INVALID_FUNCTIONAL_AREA     | The values given for project {functionalAreaUIName} field are not valid.                                                 | Invalid functional area                  | Specify a valid functional area.                                                                                   |
| ERR_INVALID_INCLUDE_CLOSED_WA   | The include closed work assignment (include_closed_wa) passed is invalid. It should have the value of TRUE or FALSE.     | Invalid include closed work assignment   | Specify one of the following values: <ul style="list-style-type: none"><li>▶ TRUE</li><li>▶ FALSE</li></ul>        |
| ERR_INVALID_INCLUDE_EXTERNAL_WA | The include external work assignment (include_external_wa) passed is invalid. It should have the value of TRUE or FALSE. | Invalid include external work assignment | Specify one of the following values: <ul style="list-style-type: none"><li>▶ TRUE</li><li>▶ FALSE</li></ul>        |
| ERR_INVALID_LANGUAGE            | The language ID passed is not supported.                                                                                 | Invalid language ID                      | Specify a valid language ID.                                                                                       |
| ERR_INVALID_LOCATION            | The values given for project {locationUIName} field are not valid.                                                       | Invalid location                         | Specify a valid location.                                                                                          |
| ERR_INVALID_MAX_ROWS            | The data provided for input max rows is not a valid number.                                                              | Invalid max rows                         | Verify that the max rows value is a positive integer.                                                              |
| ERR_INVALID_OPERATION_TYPE      | The Work Assignment type passed is invalid, it should have the value as INTERNAL or EXTERNAL.                            | Invalid work assignment type             | Specify one of the following values: <ul style="list-style-type: none"><li>▶ INTERNAL</li><li>▶ EXTERNAL</li></ul> |

| Result Code                | Result Reason                                                                                                                                                      | Description                       | Corrective Action                                                                                                                                                                                                       |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | The work assignment type passed is invalid. It should have the value of INTERNAL, EXTERNAL, PROJECT_TIME_CATEG, NON_PROJECT_TIME_CATEG, or NON_WORKING_TIME_CATEG. | Invalid work assignment type      | Specify one of the following values: <ul style="list-style-type: none"> <li>▶ INTERNAL</li> <li>▶ EXTERNAL</li> <li>▶ PROJECT_TIME_CATEG</li> <li>▶ NON_PROJECT_TIME_CATEG</li> <li>▶ NON_WORKING_TIME_CATEG</li> </ul> |
| ERR_INVALID_OVERTIME_HOURS | Overtime hours is invalid. Please provide only positive numbers.                                                                                                   | Invalid overtime hours format     | Verify that: <ul style="list-style-type: none"> <li>▶ The value for the number of hours is a positive integer.</li> <li>▶ Overtime hours do not exceed the total hours.</li> </ul>                                      |
|                            | The number of overtime hours cannot exceed the number of total hours.                                                                                              | Overtime hours exceed total hours |                                                                                                                                                                                                                         |
| ERR_INVALID_PCS            | The values given for project "PCS" field are not valid.                                                                                                            | Invalid PCS                       | Specify a valid PCS.                                                                                                                                                                                                    |
| ERR_INVALID_PHASE          | The values given for project {phaseUIName} field are not valid.                                                                                                    | Invalid phase                     | Specify a valid phase.                                                                                                                                                                                                  |
| ERR_INVALID_PROCESSES      | The values given for project {processUIName} field are not valid.                                                                                                  | Invalid process                   | Specify a valid process.                                                                                                                                                                                                |
| ERR_INVALID_PRODUCTS       | The values given for project {productUIName} field are not valid.                                                                                                  | Invalid product(s)                | Specify a valid product(s).                                                                                                                                                                                             |

| Result Code                        | Result Reason                                                                | Description                    | Corrective Action                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|
| ERR_INVALID_PROJECT                | The project information you specified does not match any existing project.   | No matching project found      | Verify that all information you specified corresponds to an existing project.                                          |
| ERR_INVALID_PROJECT_ON_TIME_STATUS | The values given for project on time status field are not valid.             | Invalid project on time status | Specify a valid project on time status.                                                                                |
| ERR_INVALID_PROJECT_SOURCE         | The values given for project {projectSourceUIName} field are not valid.      | Invalid project source         | Specify a valid project source.                                                                                        |
| ERR_INVALID_PROJECT_STATUS         | The values given for project status field are not valid.                     | Invalid status                 | Determine what values are configured for your EnterpriseTrack application. Then, specify one of the configured values. |
| ERR_INVALID_PROJECT_TYPE           | The values given for project type field are not valid.                       | Invalid project type           | Specify a valid project type.                                                                                          |
| ERR_INVALID_REGION                 | The values given for project {regionUIName} field are not valid.             | Invalid region                 | Specify a valid region.                                                                                                |
| ERR_INVALID_RESOURCE               | The resource information you specified does not match any existing resource. | No matching resource found     | Verify that all information you specified corresponds to an existing resource.                                         |
| ERR_INVALID_ROADMAP                | The values given for project {roadmapUIName} field are not valid.            | Invalid roadmap                | Specify a valid roadmap.                                                                                               |

| Result Code                      | Result Reason                                                                     | Description                                              | Corrective Action                                                                                                        |
|----------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| ERR_INVALID_ROLE                 | The role information you specified does not match any existing role.              | No matching role found                                   | Verify that all information you specified corresponds to an existing role.                                               |
| ERR_INVALID_TEAM_MEMBER          | The combination of role and resource information you specified cannot be matched. | No match found for this combination of role and resource | Verify that all information you specified exists for the resource you specified.                                         |
| ERR_INVALID_TOTAL_HOURS          | Total hours is invalid. Please provide only positive numbers.                     | Invalid total hours format                               | Verify that the value for the number of hours is a positive integer.                                                     |
| ERR_INVALID_TOTAL_OVERTIME_HOURS | The data provided for the total or overtime hours is not an integer               | Invalid total overtime hours format                      | Verify that the value for the number of hours is a positive integer.                                                     |
| ERR_INVALID_UPDATE_ACTION_CODE   | The update action code that you specified is not supported.                       | Invalid update action code                               | Specify one of the following values:<br><ul style="list-style-type: none"> <li>▶ REPLACE</li> <li>▶ INCREMENT</li> </ul> |
| ERR_NO_DATA_TO_UPDATE            | Both percent completion and activity status cannot be blank.                      | No data to update                                        | Specify values for the percent completion and activity status.                                                           |
| ERR_NON_EXISTING_ACTIVITY        | The activity ID you specified does not exist                                      | Activity ID not found                                    | Verify that you have specified a valid activity ID.                                                                      |

| Result Code                     | Result Reason                                                                                                            | Description                            | Corrective Action                                                                                                         |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| ERR_PERMISSION                  | Your credentials do not include permission to perform revisions to one (or more) of the following :<br><permission_name> | Insufficient permission.               | Obtain the necessary permissions from your EnterpriseTrack administrator.                                                 |
| ERR_PROJECT_CLOSED              | The current project status does not allow this operation.                                                                | Project closed.                        | Verify that you specified an Open (or equivalent) project.                                                                |
| ERR_PROJECT_LOCKED              | Updates are not allowed on this project since it has been locked for MS Project updates.                                 | Project locked for MSP update          | Once the synchronization is complete, you can try again.                                                                  |
| ERR_RESOURCE_NOT_ACTIVITY_OWNER | The work assignment you specified is assigned to a different resource.                                                   | Resource not assigned to this activity | Verify that the activity you specified is assigned to the resource you specified.                                         |
| ERR_TIMESHEET_ENTRY_NOT_ALLOWED | Timesheets are not enabled for this resource.                                                                            | Timesheet disabled for this resource   | Verify that timesheets are enabled for the resource.                                                                      |
|                                 | A manager is not assigned to the resource, therefore timesheets cannot be created.                                       | Manager not assigned to resource       | From an interactive EnterpriseTrack session, assign a manager to the resource and then try again.                         |
|                                 | Timesheets are not enabled for this resource.                                                                            | Resource cannot enter timesheet        | From an interactive EnterpriseTrack session, enable the Can Enter Timesheet option for this resource or the project team. |

| Result Code                  | Result Reason                                                                                     | Description                                                        | Corrective Action                                                                                                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | The user does not have adequate permission to enter Non Project/Non Working Time.                 | The user does not have permission for Non Project/Non Working Time | Obtain the necessary permissions.                                                                                                                                                                   |
|                              | The resource does not have permission to enter project level time.                                | Insufficient permission                                            | Obtain the necessary permissions.                                                                                                                                                                   |
|                              | Your credentials do not include permission to either create or edit timesheets for this resource. | Insufficient permission                                            | Obtain the necessary permission.                                                                                                                                                                    |
|                              | The resource does not have permission to enter activity level time.                               | Insufficient permission                                            | Obtain the necessary permission.                                                                                                                                                                    |
| ERR_TIMESHEET_EXCESS_HOURS   | The number of hours cannot exceed the daily limit configured in EnterpriseTrack.                  | Number of hours exceeds daily limit                                | Verify the: <ul style="list-style-type: none"> <li>▶ Number of hours currently reported for the resource</li> <li>▶ Maximum number of hours configured for your EnterpriseTrack instance</li> </ul> |
| ERR_UNSUPPORTED_INPUT_FORMAT | The input format that you specified is not supported.                                             | Invalid input format                                               | Specify a valid data format for the following:<br>input_type=<in_type><br>See the function documentation for supported formats.                                                                     |
|                              | Input type is required. Please provide a value.                                                   | Input format required                                              | Specify a value for the input type.                                                                                                                                                                 |

| Result Code                   | Result Reason                                                  | Description                                   | Corrective Action                                                                                                                 |
|-------------------------------|----------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ERR_UNSUPPORTED_OUTPUT_FORMAT | The output format that you specified is not supported.         | Invalid output format                         | Specify a valid data format for the following:<br>output_type=<out_type><br>See the function documentation for supported formats. |
|                               | Output type is required. Please provide a value.               | Output format required                        | Specify a value for the output type.                                                                                              |
| ERR_UPDATE_ACTIVITY           | (Message corresponds to that found in the EnterpriseTrack UI.) | Failed to update activity                     | Follow the recommendation.                                                                                                        |
| ERR_WORK_ASSIGNMENT_LOCKED    | Updates are permitted only to Open work assignments.           | Closed work assignment                        | Verify that you have specified a work assignment that is open (or the equivalent).                                                |
| SUCCESS                       | (Null)                                                         | Successful execution of Integration function. | No action required.                                                                                                               |
| SYSTEM_ERROR                  | Operation has failed. Contact the system administrator.        | Unexpected system error                       | Please contact system administrator.                                                                                              |

# Legal Notices

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Oracle Instantis EnterpriseTrack API Reference Guide

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