Informatica

Informatica® Cloud Data Integration

# UKGPro V2 Connector

Informatica Cloud Data Integration UKGPro V2 Connector
April 2024

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# Preface

Use *UKGPro V2 Connector* to learn how to read from UKGPro. Learn to create an UKGPro V2 connection, develop and run synchronization tasks, mappings, and mapping tasks in Cloud Data Integration.

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The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at https://www.informatica.com/services-and-training/support-services/contact-us.html.

CHAPTER 1

# Introduction to UKGPro V2 Connector

You can use UKGPro V2 Connector to securely read data from UKGPro and UltiPro Time Management Web Services. Use Data Integration to migrate data that you read from UKGPro to other applications.

You can use the UKGPro V2 connection in synchronization tasks, mappings, and mapping tasks. In a mapping, you can configure a Source or Lookup transformation to represent a UKGPro V2 object.

You can switch mappings to advanced mode to include transformations and functions that enable advanced functionality.

When you run a task, the agent uses the following APIs to access data based on the application module you specify in the UKGPro V2 connection:

**Employee Self-Service**

Reads human resources, payroll, talent, and benefits data from UKGPro.

**UTM Odata Services**

Reads data from Time Management.

**Events**

Reads data specific to supported UKGPro events, such as the date and time events and unique keys of records associated with Events.

**Note:** This connector is developed by Informatica partners, third-party system integrators, or customers. You can look up the Product Availability Matrix or Informatica Marketplace for more information.

## Supported objects and task operations

You can access the UKGPro application modules when you connect to UKGPro.

The following table lists the objects and task operations that UKGPro V2 Connector supports for HR, Payroll, Talent, and Benefits modules:

| Objects | Read | Lookup | Data Preview |
|---|---|---|---|
| Primary Address | Yes | Yes | Yes |
| Other Address | Yes | Yes | Yes |

| Objects | Read | Lookup | Data Preview |
|---|---|---|---|
| Allocation | Yes | Yes | Yes |
| Award | Yes | Yes | Yes |
| CompanyProperty | Yes | Yes | Yes |
| Contact | Yes | Yes | Yes |
| Deduction | Yes | Yes | Yes |
| Direct Deposit | Yes | Yes | Yes |
| Earning | Yes | Yes | Yes |
| Education | Yes | Yes | Yes |
| Employee | Yes | Yes | Yes |
| Employment History | Yes | Yes | Yes |
| Employment | Yes | Yes | Yes |
| General Ledger | Yes | Yes | Yes |
| General Ledger Recent Runs | Yes | Yes | Yes |
| Licence | Yes | Yes | Yes |
| Other Address | Yes | Yes | Yes |
| People | Yes | Yes | Yes |
| Payroll History Deduction | Yes | Yes | Yes |
| Payroll History Earning | Yes | Yes | Yes |
| Payroll History Summary | Yes | Yes | Yes |
| Payroll History Tax | Yes | Yes | Yes |
| Phone | Yes | Yes | Yes |
| Previous Address | Yes | Yes | Yes |
| Pto Accurals | Yes | Yes | Yes |
| Pto Requests | Yes | Yes | Yes |
| Skills | Yes | Yes | Yes |
| Taxes | Yes | Yes | Yes |
| Business Rule Job | Yes | Yes | Yes |

| Objects | Read | Lookup | Data Preview |
|---|---|---|---|
| Business Rule Location | Yes | Yes | Yes |
| Business Rule Org Level 1 | Yes | Yes | Yes |
| Business Rule Org Level 2 | Yes | Yes | Yes |
| Business Rule Org Level 3 | Yes | Yes | Yes |

The following table describes the objects and task operations that UKGPro V2 Connector supports for the Time Management module:

| Objects | Read | Lookup | Data Preview |
|---|---|---|---|
| Employee | Yes | Yes | Yes |
| Job | Yes | Yes | Yes |
| Location | Yes | Yes | Yes |
| Org Level 1 | Yes | Yes | Yes |
| Org Level 2 | Yes | Yes | Yes |
| Org Level 3 | Yes | Yes | Yes |
| Org Level 4 | Yes | Yes | Yes |
| Paycode | Yes | Yes | Yes |
| Pay Group | Yes | Yes | Yes |
| Pay Matrix | Yes | Yes | Yes |
| Project | Yes | Yes | Yes |
| Reason | Yes | Yes | Yes |
| Shift | Yes | Yes | Yes |
| Shift Del | Yes | Yes | Yes |
| Shift Lvl | Yes | Yes | Yes |
| Time | Yes | Yes | Yes |
| Schedule | Yes | Yes | Yes |
| Schedule Request | Yes | Yes | Yes |
| Time Sheet | Yes | Yes | Yes |

The following table describes the objects and task operations that UKGPro Connector supports for the Integration Events module:

| Objects | Read | Lookup | Data Preview |
|---|---|---|---|
| Events | Yes | Yes | Yes |

**Note:** The insert, update, upsert, and delete task operations are not applicable.

# UKGPro V2 Connector example

You are a human resources administrator and you want to access the employee information in your organization. You can use Data Integration to read employee information from UKGPro and write the data to Oracle database. To read a list of triggered events, such as date, time, and record key, specify the Events application module in the UKGPro V2 connection.

Create a UKGPro V2 connection and use the connection in synchronization tasks, mappings, and mapping tasks.

To read the employee records that triggered the integration event, configure a parameterized filter in a mapping task. To read time data from Time Management, such as the number of hours worked, specify the Other application module in the UKGPro V2 connection.

# Administration of UKGPro V2 Connector

As a user, you can use UKGPro V2 Connector after the organization administrator installs the Secure Agent on the server that belongs to your organization.

For more information about installing the Secure Agent, see the *Administrator* help.

Based on the data you want to extract, perform the following tasks:

1. Open a case with UKGPro to enable UKGPro V2 Connector.
2. Create a service account in UKGPro to access the Employee Self Service API. Perform the following tasks:
   a. Go to **Menu** > **Administration** > **Integration Studio** > **Integration Studio Dashboard** > **Service Accounts Graphic Tile.**
   b. Use the service account information to create a UKGPro V2 connection to the HR, Payroll, Talent, Benefits, and Integration Events application modules.
3. To create a UKGPro V2 connection to the Time Management module, get the clock server URL and UTM ODataService username and password after submitting a case to UKGPro.
4. To read the HR, Payroll, Talent, and Benefits data when a specific Integration Event triggers, open a case with UKGPro to enable Integration Events for your organization.

CHAPTER 2

# UKGPro V2 connections

You can use UKGPro V2 connection to read data from UKGPro or UltiPro Time Management Web Services. You can use UKGPro V2 connections to specify sources in synchronization tasks, mappings, and mapping tasks.

You can create a UKGPro V2 connection on the **Connections** page. You can then use the connection when you create a mapping or a task.

## UKGPro V2 connection properties

When you set up a UKGPro V2 connection, you must configure the connection properties.

The following table describes the UKGPro V2 connection properties:

| Property | Description |
|---|---|
| Runtime Environment | The name of the run-time environment where you want to run the tasks. |
| Username | The user name of the UKGPro service account.<br>Specify one of the following user names:<br>- To read HR, Payroll, Talent, and Benefits or Integration Events data, specify the user name of the service account in UKGPro.<br>- To read Time Management data, specify the ODataService user name associated with UKG support. |
| Password | The password of the UKGPro service account.<br>Specify one of the following passwords:<br>- To read HR, Payroll, Talent, and Benefits or Integration Events data, specify the password of the service account in UKGPro.<br>- To read Time Management data, specify the ODataService password associated with UKG support. |
| Service Host Name | The organization domain of UKGPro to read data from the HR, Payroll, Talent, Benefits, or the Integration Events module.<br>To get the service host name, navigate to **UKGPro** > **Menu** > **System Configuration** > **Security** > **Web Services**.<br>Specify the service host name in the following format:<br>`service$.ultipro.com`,<br>where $ is a numeric value.<br>To read the Time Management data, specify the clock server URL provided by UKG support. |

| Property | Description |
| --- | --- |
| User API Key | The User API key when you want to read data from the HR, Payroll, Talent, Benefits, or Integration Events module.<br>To get the user API key, navigate to **UKGPro** > **Menu** > **Administration** > **Integration Studio** > **Integration Studio Dashboard** > **Service Accounts graphic tile**<br>To read the Time Management data, specify None as the value of the user API key. |
| Customer API Key | The Customer API key to read data from the HR, Payroll, Talent, Benefits, or Integration Events module.<br>To get the customer API key, navigate to **Dashboard** > **Service Accounts graphic tile** > **UKGPro** > **Menu** > **Administration** > **Integration Studio** > **Integration Studio**. |
| Application Module | Determines the type of objects that you can access through the connection.<br>You can select from the following modules to access data from UKGPro:<br>**HR, Payroll, Talent, and Benefits**<br>Access HR, Payroll, Talent, and Benefits objects.<br>**Integration Events**<br>Access the Integration Events object to read subscribed Integration Events, such as the date and time of the completed events.<br>**Other**<br>Access Time Management objects. |

CHAPTER 3

# Synchronization tasks with UKGPro V2 Connector

Use a Synchronization task to synchronize data between a source and target.

You can configure a synchronization task using the Synchronization Task wizard.

When you create a task, you can associate it with a schedule to run it at specified times or on regular intervals. Or, you can run it manually. You can monitor tasks that are currently running in the activity monitor and view logs about completed tasks in the activity log.

## UKGPro V2 sources in synchronization tasks

When you configure a synchronization task to use a UKGPro V2 source, you can configure the source properties.

The source properties appear on the **Source** page of the synchronization task wizard when you specify a UKGPro V2 connection.

The following table describes the UKGPro V2 source properties:

| Property | Description |
|---|---|
| Connection | Name of the source connection. |
| Source Type | Source Type. Select one of the following objects:<br>- Single object.<br>- Multiple objects. |
| Source Object | Select the source object for the task. |

## Configuring a synchronization task

You can create a synchronization task to read data from UKGPro.

Perform the following steps to configure a synchronization task:

1. Select **Data Integration** from the menu.

   The **Data Integration** Home page appears.
2. Click **New** > **Tasks** > **Synchronization Task** to create a synchronization task.
3. In the **Definition** tab, specify the task name, provide a description, and select the task operation **Insert**.
4. Click **Next**.
5. In the **Source** tab, select the source connection, source type, and source object.
6. Click **Next**.
7. In the **Target** tab, select the target connection, target type, and target object.
8. Click **Next**.
9. On the **Data Filters** tab, set the filter conditions. If you do not set a filter condition, all rows are processed for the task.
10. Click **Next**.
11. On the **Field Mapping** tab, map the source fields to the appropriate target fields.
12. Click **Next**.
13. On the **Schedule** tab you can schedule the task for each requirement and save. You can run a synchronization task manually or you can schedule the task to run at a specific time or at specified time intervals.
14. Click **Finish**. To run the task, **click Run**. On the Monitor tab, you can monitor the status of the task.

# Rules and guidelines for data filters

Consider the following rules and guidelines for data filters in tasks:

1. You can use one condition for each filter. For example, you cannot use both simple and advanced filters on the same condition.
2. You can apply a filter to an object that is a collection. The collection must be a primary source object.
3. When you configure the source for UKGPro history objects such as payroll, you must provide a filter.
4. Use advanced filters when you want to override the filter logic. Advanced filters use Odata syntax. The Secure Agent overrides the filter to the API without conversions.

CHAPTER 4

# Mappings and mapping tasks with UKGPro V2 Connector

Use the Data Integration Mapping Designer to create a mapping.In advanced mode, the Mapping Designer updates the mapping canvas to include transformations and functions that enable advanced functionality.

## UKGPro V2 sources in mappings

To read data from UKGPro, configure a UKGPro V2 object as a Source transformation in a mapping. You can configure a Source transformation to represent a single UKGPro V2 source.

Specify the name and description of the UKGPro V2 source. Configure the source properties for the source object.

The following table describes the UKGPro V2 source properties that you can configure in a Source transformation:

| Property | Description |
|---|---|
| Connection | Name of the source connection. |
| Source Type | Type of the source object. Select Single Object or Multiple Objects. |
| Source Object | Name of the source object. Select the source object. |

The following table describes the Query Options of UKGPro V2 sources that you can configure in a Source transformation:

| Query Options | Description |
|---|---|
| Filter | Filter value in a read operation to fetch records.<br>Use the following filters:<br>- Complete Parameterized<br>- Not Parameterized<br>- Advanced |
| Sort | Not Applicable. |

The following table describes the advanced properties of UKGPro V2 sources:

| Advanced Property | Description |
|---|---|
| Tracing Level | Sets the amount of detail that appears in the log for the source.<br>Use the following tracing levels:<br>- Terse<br>- Normal<br>- Verbose Initialization<br>- Verbose<br>Default is normal. |

# Rules and guidelines for UKGPro V2 objects

Consider the following rules and guidelines for UKGPro V2 objects in mappings:

- When you configure multiple objects for HR, payroll, and benefits integrations, you can add them as sibling objects.
  For example, when exporting fields from the Person and Phone objects, you must add the Phone object as the primary source object. You can then add the related Person object.
- When you add a UKGPro V2 object or one of its related collections in a task, you must follow a specific order. You must add the object that is a related collection as a primary object. If you do not add the related collection as a primary object, the integration will contain duplicate records.
  The following table describes the related collections for each object:

| Objects | Related Collections |
|---|---|
| Employee | Contacts<br>Employment Details<br>Earnings<br>Configurable Fields |
| Person | Phones<br>Skills<br>Educations<br>Licenses<br>Awards<br>PreviousEmployments<br>PersonConfigurableFields |

| Objects | Related Collections |
|---|---|
| Employment | Allocations<br>CompanyProperties<br>ConfigurableFields<br>Deductions<br>DirectDeposits<br>PtoAccruals<br>PtoRequests<br>Taxes |
| Phone | Configurable Fields |
| Primary Address | Configurable Fields |
| Business Rule Job | Configurable Fields |
| Business Rule Location | Configurable Fields |
| Business Rule Org Level1 | Configurable Fields |
| Business Rule Org Level2 | Configurable Fields |
| Business Rule Org Level3 | Configurable Fields |
| Business Rule Org Level4 | Configurable Fields |

# Troubleshooting

Consider the following troubleshooting tips when you use a UKGPro V2 connection:

**Unable to install the Secure Agent.**

For troubleshooting errors related to the Secure Agent, see https://docs.informatica.com/cloud-common-services/administrator/current-version/runtime-environments/secure-agents/troubleshooting-a-secure-agent.html

**A proxy setting error appears when you test the connection.**

Verify the proxy settings in your network. You must enter the IP address on your proxy server for the Secure Agent. If the specified solution fails, you can contact your IT staff to solve outbound request issues.

**The session log shows a proxy server error, although the task is successful.**

When you read data from UKGPro, the session log shows proxy error, although the task is successful. In such cases, ignore the error in the session log.

**Java Heap Error or Out of Memory Exception occurs when you run a task.**

Verify the health and environment of the Secure Agent. The Secure Agent must be running.

**Unable to view data from UKGPro.**

You can perform the following actions to view data from UKGPro:

- Verify your host name.
- Verify the following configurations:
  - Customer API
  - User API
  - User name and password associated with your service account

**Test connection fails when you connect to UKGPro.**

When you use the HR, Payroll, Talent, and Benefits application modules, you must verify the access permissions to the Employee Self-Service API.

CHAPTER 5

# Data type reference

Data Integration uses the following data types in mappings and mapping tasks with UKGPro V2 Connector:

**UKGPro V2 native data types**

UKGPro V2 data types appear in the **Fields** tab of the Source and Target transformations when you edit metadata for the fields.

**Transformation data types**

Set of data types that appear in the transformations. They are internal data types based on ANSI SQL-92 generic data types, which the Secure Agent uses to move data across platforms. Transformation data types appear in all transformations in a mapping.

When Data Integration reads source data, it converts the native data types to the comparable transformation data types before transforming the data. When Data Integration writes to a target, it converts the transformation data types to the comparable native data types.

## UKGPro V2 and transformation data types

The following table lists the UKGPro V2 native data types that Data Integration supports and the corresponding transformation data types:

| UKGPro V2 Data Type | Transformation Data Type | Description |
|---|---|---|
| Array | Binary | Array data types |
| BigDecimal | BigInteger | Number with default and max precision of 12 |
| BigInteger | BigInteger | Number with default and max precision of 12 |
| Binary | Binary | 1 to 104,857,600 bytes |
| Boolean | Integer | Logical Boolean (true/false) |
| Byte | Binary | Byte data type |
| Date | Date | Date and time values |
| Decimal | Decimal | Number with default precision of 10 and max precision of 31 |
| Double | Double | Number with default and max precision of 15 |

| UKGPro V2 Data Type | Transformation Data Type | Description |
|---|---|---|
| Float | Decimal | Number with default precision of 10 and max precision of 31 |
| Integer | Integer | Number with default and max precision of 12 |
| Long | BigInteger | Number with default and max precision of 8 |
| Object | String | Object data type |
| Short | Integer | Number with default and max precision of 12 |
| String | String | Max length is 65535 |
| Timestamp | Date/Time | Date and time (without time zone) |

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