

Oracle Fusion Cloud and Workday

From the SourceLace manual: How to connect Oracle Fusion Cloud (ERP, SCM and HCM) and Workday. Both read, and both can also make changes once a SourceLace admin turns them on: Oracle Fusion creates and updates records, and Workday starts one business process, the business title change (see Making ch

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The latest version is at <https://sourcelace.onrender.com/docs>

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How to connect Oracle Fusion Cloud (ERP, SCM and HCM) and Workday. Both read, and both can also make changes once a SourceLace admin turns them on: Oracle Fusion creates and updates records, and Workday starts one business process, the business title change (see [Making changes](#)). Each person signs in with their own Oracle or Workday login, so Oracle and Workday show them only what their own roles and security groups allow. SourceLace never uses an administrator or integration system account, for reads or for changes.

Status: in testing. Built against Oracle's and Workday's documented REST APIs and covered by automated tests against simulated systems; not yet used with a customer's live Oracle pod or Workday tenant.

How this differs from other sources

There is no SourceLace-wide app for Oracle or Workday. **Your Oracle or Workday admin registers an OAuth client for SourceLace inside your own system**, and your SourceLace admin types its details into the source.

- The **client secret** is stored encrypted with your organization's own key. After saving, SourceLace only ever shows (saved). To keep it when editing the source, leave the field empty; to change it, type the new one.
- Type the secret on the web app's **Manage sources** page, not in a chat, so it never sits in a chat transcript.
- SourceLace sends a PKCE challenge with every sign-in. A public client (no secret) also works where your policy prefers it: leave the secret empty.

The redirect URL both systems ask for is:

`https://sourcelace.onrender.com/connect/callback`

Oracle Fusion Cloud

Register SourceLace (Oracle identity domain administrator, about 15 minutes)

You need the **Identity Domain Administrator** role for the identity domain your Fusion users sign in with.

1. Sign in to the **OCI Console** (cloud.oracle.com). Open **Identity & Security → Domains** and click the identity domain your Fusion users sign in with. (Older pods call this **Oracle Identity Cloud Service**; the steps are the same.)
2. On the domain's **Overview**, copy the **Domain URL**, such as `https://idcs-0123456789abcdef.identity.oraclecloud.com`. This is the `idcs_url` option.
3. Open **Integrated applications → Add application → Confidential Application → Launch workflow**. **Name:** SourceLace. Click **Next**.
4. Under **Client configuration**, choose **Configure this application as a client now:**
 - **Allowed grant types:** tick **Authorization code** and **Refresh token**, nothing else.

- **Redirect URL:** the redirect URL above.
 - **Client type: Confidential.**
 - **Token issuance policy → Resources:** tick **Add resources**, click **Add scope**, choose your pod's Fusion Applications resource, and add its scope (usually `urn:opc:resource:consumer::all`).
 - Click **Next**, then **Finish**.
5. Click **Activate** on the new application.
 6. On its **OAuth configuration** tab, copy the **Client ID**, the **Client secret (Show secret)**, and the **scope** shown next to the Fusion resource, exactly as shown with no added spaces, such as `urn:opc:resource:fa:instanceid=123456789urn:opc:resource:consumer::all`. SourceLace adds `offline_access` itself, so people stay signed in.
 7. Note the address people use for Fusion, such as `corvanta.fa.us2.oraclecloud.com`. This is the host option.

Add the source (SourceLace admin)

Kind: **Oracle Fusion Cloud (ERP, SCM, HCM)** (`oracle_fusion`).

Option	Type	Default	Example	What it is
host	Host name	(required)	<code>corvanta.fa.us2.oraclecloud.com</code>	The Fusion address. Must end in <code>.oraclecloud.com</code> .
idcs_url	Host name	(required)	<code>https://idcs-0123456789abcdef.identity.oraclecloud.com</code>	The identity domain URL from step 2. Must end in <code>.identity.oraclecloud.com</code> .
client_id	Text	(required)	<code>0a1b2c3d4e...</code>	From step 6.
client_secret	Secret	(none: public client)		From step 6. Stored encrypted; shown only as (saved).
scope	Text	(required)	<code>urn:opc:resource:fa:instanceid=123456789urn:opc:resource:consumer::all</code>	The Fusion scope from step 6.
resources	List, separated by commas	(none)	<code>receivablesCustomerAccountActivities,hcm/salaries</code>	Extra REST resources to list in <code>search_schema</code> .

What people can do

- `search_schema` lists common resources (Payables invoices, suppliers, purchase orders, requisitions, sales orders, items, projects, and HCM workers, absences, jobs and positions) plus any in `resources`. Any other Fusion REST resource can still be queried by name.
- `describe_object` reads the resource's own description from Oracle: its attributes and child resources.
- `query` (language `fusion_rest`) takes a resource with Oracle's REST options, such as `invoices?q=InvoiceAmount > 1000 and PaymentStatusFlag = 'N'&fields=InvoiceId,InvoiceNumber,InvoiceAmount&orderBy=InvoiceDate:desc&limit=50`. HCM resources start with `hcm/` and CX ones with `crm/`. The options allowed are `q`, `fields`, `orderBy`, `finder`, `expand`, `limit` (up to 500) and `offset`; anything else is refused before Oracle is called.

SourceLace pages through results itself.

- `get_record` reads one record by its key, plus up to three child resources (such as an invoice's `invoiceLines`).
- `propose_change` and `apply_change` create and update records, when changes are on (see [Making changes](#)).

Workday

Register SourceLace (Workday security administrator, about 15 minutes)

You need someone who can run the **Register API Client** task. Try it first in an implementation or sandbox tenant.

1. Search for the task **Register API Client** (not "for Integrations": that one is for system accounts, and SourceLace signs each person in with their own login).
2. Fill it in:
 - **Client Name:** SourceLace.
 - **Client Grant Type:** **Authorization Code Grant**. **Access Token Type:** **Bearer**.
 - **Redirection URI:** the redirect URL above.
 - **Refresh Token Timeout (in days):** how long people stay connected, such as 30, or tick **Non-Expiring Refresh Tokens** if your policy allows.
 - **Support Proof Key for Code Exchange (PKCE):** tick it if your tenant shows it.
 - Leave **Public Client** unticked.
 - **Scope (Functional Areas):** at least **Staffing, Organizations and Roles, Time Off and Leave, Jobs and Positions, Contact Information** and **System** (System holds Workday Query Language). Add others, such as Compensation or Benefits, for data people should read.
 - **Include Workday Owned Scope:** tick it.
3. Click **OK**. Workday shows the **Client ID** and **Client Secret** once: copy both now.
4. Search for **View API Clients** and open the **API Clients** tab. Copy:
 - **Workday REST API Endpoint**, such as `https://wd2-impl-services1.workday.com/ccx/api/v1/corvanta_preview`. Its host (`wd2-impl-services1.workday.com`) is the host option, and its last part (`corvanta_preview`) is the tenant option.
 - **Authorization Endpoint**, such as `https://impl.workday.com/corvanta_preview/authorize`. If its host differs from the REST API host, that host (`impl.workday.com`) is the `auth_host` option.

Add the source (SourceLace admin)

Kind: **Workday** (`workday`).

Option	Type	Default	Example	What it is
host	Host name	(required)	wd2-impl-services1.workday.com	The REST API host from step 4. Must end in .workday.com or .myworkday.com.
tenant	Text	(required)	corvanta_preview	The tenant name from step 4.
auth_host	Host name	the host option	impl.workday.com	The Authorization Endpoint's host, if different.
client_id	Text	(required)	MzY4...	From step 3.
client_secret	Secret	(none: public client)		From step 3. Stored encrypted; shown only as (saved).

What people can do

- `search_schema` lists the REST objects (workers, supervisory organizations, job profiles, job families, jobs) and the WQL data sources the person may use (such as `allActiveWorkers`).
- `describe_object` on a WQL data source lists its fields; on a REST object it lists the fields of a sample record and the related lists `get_record` can add.
- `query` takes wql, one Workday Query Language `SELECT ... FROM ...` such as `SELECT workdayID, fullName, businessTitle FROM allActiveWorkers WHERE isManager = true` (no LIMIT needed), or `workday_rest`, a REST collection with `search`, `limit` and `offset`, such as `workers?search=Lee&limit=20`.
- `get_record` reads one REST object by its Workday ID, plus related lists such as a worker's `directReports`, `supervisoryOrganizationsManaged` or `timeOffDetails`.
- `propose_change` and `apply_change` start a business title change, when changes are on (see [Making changes](#)).

Making changes

Changes are **off** until a SourceLace admin turns on **Allow changes** for the source and lists the objects under **Objects that can be changed** (such as `invoices` for Oracle Fusion, or `businessTitleChange` for Workday). As everywhere in SourceLace, the person first sees a preview with the current and new values, and nothing is sent until they confirm. Each change runs as **that person's own Oracle or Workday login**, so their own roles decide whether it is allowed.

Oracle Fusion: create and update

- **What can be changed:** any top-level Fusion REST resource the admin lists, by the same name query uses (such as `invoices`, `suppliers`, `purchaseRequisitions` or `hcm/workers`). A create sends one new record to the resource; an update changes one record.
- **Checked before anything is sent:** field names are checked against the resource's own description from Oracle. An unknown field, or one Oracle marks as not updatable, is refused in the preview. If Oracle says the resource does not allow create or update, that is refused too.
- **The preview** shows the record's current values of just the fields being changed.

- **If someone else changed the record** after the preview, the change is refused and the person is asked to propose it again. SourceLace uses Oracle's record version (ETag) when Oracle returns one; otherwise it compares the record's LastUpdateDate (or, if the resource has none, the values themselves) just before writing.
- **Deletes are refused.** Fusion records are closed or cancelled through their status (for example, cancel an invoice or close a purchase order), so ask for a status change instead.
- **What each person's roles decide:** whether they can create or change that kind of record at all (their Fusion duty roles and privileges, such as *Manage Payables Invoices*) and which records (their data security, such as business units). If Oracle refuses, SourceLace shows Oracle's own message.
- **Setup:** nothing new. The Fusion scope you already gave the OAuth client covers reads and changes; Fusion's roles are what limit changes. Make sure the people who should make changes have the right Fusion roles.

Workday: the business title change

Workday does not let outside apps edit records directly: every change runs a **business process** inside Workday, with its own approvals. SourceLace only offers changes that are a single, documented Workday REST call, so a change can never stop half way. Today that is one:

Object to allow	What it does	Field
businessTitleChange	Starts a Business Title Change for one worker	proposedBusinessTitle (text, up to 255 characters)

- It is proposed as an **update**, with object businessTitleChange and the worker's Workday ID as the record id. The preview shows the worker's current business title.
- **Approvals still apply.** The preview says so: this starts Workday's own business process, so if your Workday setup requires a manager or HR partner to approve, the new title shows only after they do.
- Creates, deletes, any other field and any other Workday object are refused in the preview, before anything is sent. Just before starting the change, SourceLace reads the worker's current title again and refuses the change if it moved since the preview.
- Once changes are on, search_schema lists businessTitleChange and describe_object shows its field.
- **What each person's security groups decide:** whether they may start a business title change for that worker, set by the **business process security policy for Business Title Change** in Workday (for example, workers for themselves, or managers for their team). If Workday refuses, SourceLace shows Workday's own message.
- **Setup:** the API client's scope must include **Staffing**, the functional area that holds the Business Title Change business process (already in the list in step 2 above). If your API client was registered without it, edit the client in **View API Clients** and add it. Then turn on changes for businessTitleChange on the source.
- **Not offered yet:** contact information changes, job changes, time off and other business processes.

When something goes wrong

What you see	What to do
"... needs the option '...', such as"	Fill in that option.
"The option '...' of ... must be a host name ending in ..., such as"	Give only the host name, from the steps above.
"... needs the option 'client_id': the client id of the OAuth client your admin registered for SourceLace."	Fill in <code>client_id</code> .
"... needs the option 'scope': the Fusion scope shown in your identity domain, such as ..."	Copy the scope from step 6, exactly.
"Oracle sign-in failed: ..." or "Workday sign-in failed: ..."	The system's own reason follows, usually a redirect URL that does not match exactly, a wrong client secret, or (Workday) a missing functional area.
"Oracle did not say which user signed in." or "Workday did not say which worker signed in."	Contact support.
"Oracle Fusion: that resource or record does not exist, or your roles do not let you see it."	Check the resource name with <code>search_schema</code> ; the person's Fusion roles may not allow it.
"Workday: that does not exist, or your security groups do not let you see it."	Check the name or id; the person's security groups may not allow it, or the API client lacks that functional area.
"Workday has no WQL data source '...' that you can use."	Check the data source name with <code>search_schema</code> .
"Oracle answered with a web page instead of data (HTTP ...)." (or Workday)	The host option is probably wrong, or the system is down for maintenance.
"Your Oracle sign-in has expired." or "Your Workday sign-in has expired."	Connect again.
"Oracle Fusion: your roles do not allow this. ..."	The person's Fusion roles do not allow creating or changing these records. Ask your Oracle admin.
"Oracle Fusion does not allow ... on ... through its REST API."	That resource cannot be created or updated through Oracle's REST API. Make the change in Fusion itself.
"This ... record changed in Oracle Fusion after the preview. Propose the change again." or "This worker changed in Workday after the preview. Propose the change again."	Someone else changed it; ask for a new preview.
"SourceLace does not delete Oracle Fusion records. ..."	Change the record's status instead, such as cancelling an invoice.
"SourceLace cannot change '...' in Workday. The changes it can propose are: ..."	Only <code>businessTitleChange</code> is offered.
"Workday changes go through business processes, so SourceLace can only start a business title change for one worker: ..."	Propose an update of <code>businessTitleChange</code> with the worker's Workday ID.