Oracle Fusion Cloud Talent Management

Integrate content providers with Oracle Learning

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There are a number of ways to learn more about your product and interact with Oracle and other users.

Get Help in the Applications

Some application pages have help icons to give you access to contextual help. If you don't see any help icons on your page, click your user image or name in the global header and select Show Help Icons. If the page has contextual help, help icons will appear.

Get Training

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We welcome your feedback about Oracle Applications user assistance. If you need clarification, find an error, or just want to tell us what you found helpful, we'd like to hear from you.

You can email your feedback to *oracle_fusion_applications_help_ww_grp@oracle.com*.

Thanks for helping us improve our user assistance!

1 Get started

Overview of external content integration with Oracle Learning

Integrating content providers with Oracle Learning lets learners access all their training in one place. Also, the organization can track and manage every learning program from a central hub.

Implementation involves coordinated effort across several areas:

- **Cloud console administration**: Establish secure single sign-on (SSO) and OAuth connections
- **Application security administration**: Define and assign security roles and permissions
- **IT or integration support** (as needed): Oversee API connectivity, synchronization, and technical troubleshooting
- **Learning administration**: Manage content imports, catalog visibility, validation, and audience discovery

The learning that can be imported depends on your organization's subscription plan and the access granted by each provider's platform.

2 Aperian

Integrate Aperian with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Aperian learning in Oracle Learning.

1. Make sure that you have an active account with Aperian that allows integrations.
2. Configure Single Sign On between Oracle Learning and Aperian to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Aperian.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Aperian will get API authentication failures when sending content to Oracle Learning.

5. Create a user account that you'll use in step 6.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**.

       Make sure the user isn't associated with a person or worker account.

    c. Enter the appropriate user details so you can identify the account.

       Be sure to give the account a meaningful user name, such as **user.aperian** because Aperian uses this user for both content and completion syncs.

    d. Add the job role you created in step 4.
6. Enable Aperian.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Aperian and enter the user account created in step 5.
    c. Select a learning catalog profile to apply to all imported Aperian learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration.
    f. Optional: Change the attribute mappings between certain Aperian attributes and Oracle Learning attributes that you might have extended or changed.

7. Contact your Aperian account team and give them the user name created in step 2. In turn, they'll give you this information:
    - The trusted issuer name for their JWT token, it needs to exactly match the value used when configuring JWT
    - A public certificate so they can authenticate to the Oracle Learning APIs to send content and completion data
8. Create an Oracle API authentication provider to authenticate incoming requests from Aperian.
    a. Go to **Tools** > **Security Console**.
    b. On the API Authentication tab, create the Oracle API authentication provider.
    c. Edit the API authentication configuration details so that you can enter the trusted issuer name provided by your Aperian account team and select the JWT token type.

    > **CAUTION:** You need to get the trusted issuer name from Aperian and the name that you enter needs to match the value they used when generating the token. Any other name results in authentication errors when Aperian tries to send content.

    d. Save your changes and close the page.
    e. Add a new inbound API authentication public certificate with a unique alias.
    f. Upload the public key (.cer extension file) provided by your Aperian account team.
    g. Save your changes and select **Done**. Your environment can now accept incoming requests from Aperian.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How Aperian learning types map to Oracle self-paced learning types

Aperian sends completions in near real time except for Aperian Live, which might take up to 24 hour to reflect in Oracle Learning.

Aperian learning type	Oracle self-paced learning type	Can update mapping	L
GlobeSmart Guide	Article	Yes, to Document, Book, or any custom type	A
Learning Module	Online Course	No	
GlobeSmart Profile	Assessment	Yes, to Observation Checklist or any custom type	
Aperian Live	Learning Event	No	
Inclusive Behaviours Inventory	Assessment	Yes, to Observation Checklist or any custom type	
Skill	Learning Path	Yes, to any custom type	

Aperian content details you can change

Some Aperian content details can't be changed in Oracle Learning because Aperian maintains authority over its content. Aperian does send content updates to Oracle Learning as it makes changes. Here's what you can and can't change in Oracle Learning.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling Aperian learning completions

Here's what happens between Aperian and Oracle Learning when a learner starts and completes an Aperian content.

For Learning Module, Globesmart Profile, and Inclusive Behaviours Inventory, Aperian sends xAPI statements to Oracle Learning when the learner starts the content.

- If the learner isn't already enrolled through it, Oracle Learning creates their enrollment with an In progress status.
- If the learner is already enrolled, their Oracle Learning enrollment remains in the In progress status.

Aperian doesn't send any xAPI statements while the learner is working on the content.

For all learning types, Aperian sends xAPI completions to Oracle Learning when the learner completes the Aperian learning. When Oracle Learning gets the statements, it updates the enrollment to the Completed status in near real time. There might be a delay of up to 24 hours to get completions for Aperian Live events, so the learner can experience a delay between completion and their enrollment status changing.

After completing an enrollment, a learner can take Globesmart Profiles, Inclusive Behaviours Inventory, Learning Module and Aperian Live learning again. Then Aperian sends the completion to Oracle Learning and it creates another enrollment for the learner. For the remaining Aperian learning types, the completion is sent only the first time the learner completes the learning.

3 BizLibrary

Integrate BizLibrary with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing BizLibrary learning in Oracle Learning.

1. Make sure that you have an active account with BizLibrary that allows integrations.
2. Configure Single Sign On between Oracle Learning and BizLibrary to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In *Oracle Cloud Infrastructure Identity and Access Management*, generate a unique set of Oracle client ID, client secret, token URL or OAuth server URL for each POD where you're enabling integration. The set lets you authenticate incoming requests from BizLibrary to track learning completions.
    a. Sign in to *Oracle Cloud console*.
    b. On the navigation menu, select **Identity & Security** > **Domains**.

    Complete steps c through l as many times as you have PODs. For example, to enable integration in a development POD and a production POD, complete the steps twice.

    c. On the Integrated applications tab, *add a confidential application* for BizLibrary.
    d. Enter a unique name that includes BizLibrary for easy identification, such as **BizLibrary dev** or **BizLibrary prod**, and a description.
    e. Submit the application.
    f. In the Configure OAuth step, configure the app as a client now.
    g. For authorization, select **Client credentials**.
    h. In the Token issuance policy section, add specific authorized resources that are accessible to the users.
    i. Add the Oracle Applications Cloud (Fusion) scope.

    The description shows the scope in the format `<resource audience><resource scope>`, for example, `urn:opc:resource:fa:instsanceid=630113349urn:opc:resource:consumer::all`. Copy this scope, which is different for each of your environments, because you'll need to share this information with BizLibrary.

    j. Submit the configuration.
    k. Review the configuration and activate the app.
    l. From the OAuth configuration page of your activated app, copy the client ID and client secret values because you need to share this information with BizLibrary.
5. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from BizLibrary.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise BizLibrary will get API authentication failures when sending content to Oracle Learning.

6. Configure the Oracle client ID from step 4 as a user account that you'll use in step 8.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account. Make sure that the user name is the same as the Oracle client ID value. Any discrepancy might lead to an unsuccessful configuration.
    d. Add the job role that you created in step 5.
7. Share this information with your BizLibrary account manager, so they can share it with their integration teams:
    - Oracle Client ID
    - Oracle Client Secret
    - Scope
    - Token URL
8. In Oracle Learning, enable BizLibrary.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure BizLibrary and enter the provider client ID and client secret credentials.
    c. For user name, search for and select the Oracle Client ID created in step 4.
    d. Select a learning catalog profile to apply to all imported BizLibrary content. The profile identifies who can see and manage the learning.
    e. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    f. Validate the configuration.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
Load and Synchronize External Course Data	Force Reload is No	Once per day	Get content updates - New content - Updates to existing content - Content retirements
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How BizLibrary learning types map to Oracle Learning types

Here's how:

BizLibrary learning type	Oracle Learning type	Can update mapping	Learner completion
Video Lesson	Video	No	Automatic when completed in Biz
Video Course	Online Course		
eLearning	Online Course		
Interactive Video	Video		

Handling BizLibrary learning completions

Here's what happens between BizLibrary and Oracle Learning when a learner starts and completes an BizLibrary content.

BizLibrary sends xAPI statements when learner starts content. When Oracle Learning gets the statements, it updates the learner's enrollment to the In Progress status.

When a learner completes a video or an online course, BizLibrary sends xAPI statements indicating the completion. The statements are sent in near real time.

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with completed status.
- If the learner is already enrolled, their Oracle Learning enrollment will be updated to completed.

After completing an enrollment, a learner can retake the video or course. BizLibrary will send other completion for each learner retake and Oracle Learning will generate a new enrollment.

4 Coursera

Integrate Coursera with Oracle Learning using JWT-based authentication

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Coursera learning in Oracle Learning.

1. Make sure that you have an active account with Coursera that allows integrations.
2. Configure single sign in between Oracle Learning and Coursera to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Coursera.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Coursera will get API authentication failures when sending content to Oracle Learning.

5. Create a user account that you'll use in step 6.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account.

       Give the account a meaningful user name, such as **user.coursera** because Coursera uses this user for both content and completion syncs.

    d. Add the job role that you created in step 4.
6. Enable Coursera.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Coursera and enter the user account created in step 5.
    c. Select a learning catalog profile to apply to all imported Coursera learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration.
    f. Optional: Change the attribute mappings between Coursera attributes and Oracle Learning attributes that you might have extended or changed.

7. Contact your Coursera account team and give them the user name created in step 2. In turn, they'll give you this information:
    - The trusted issuer name for their JWT token, it needs to exactly match the value used when configuring JWT
    - A public certificate so they can authenticate to the Oracle Learning APIs to send content and completion data
8. Create an Oracle API authentication provider to authenticate incoming requests from Coursera.
    a. Go to **Tools** > **Security Console**.
    b. On the API Authentication tab, create the Oracle API authentication provider.
    c. Edit the API authentication configuration details so that you can enter the trusted issuer name provided by your Coursera account team and select the JWT token type.

    > **CAUTION:** You need to get the trusted issuer name from Coursera and the name that you enter needs to match the value they used when generating the token. Any other name results in authentication errors when Coursera tries to send content.

    d. Save your changes and close the page.
    e. Add a new inbound API authentication public certificate with a unique alias.
    f. Upload the public key (.cer extension file) provided by your Coursera account team.
    g. Save your changes and select **Done**. Your environment can now accept incoming requests from Coursera.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups process to run daily if it's not already scheduled.

Integrate Coursera with Oracle Learning using OAuth-based authentication

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Coursera learning in Oracle Learning.

1. Make sure that you have an active account with Coursera that allows integrations.

2. Configure single sign in between Oracle Learning and Coursera to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In *Oracle Cloud Infrastructure Identity and Access Management*, generate a unique set of Oracle client ID, client secret, token URL or OAuth server URL, and scope for each POD where you're enabling integration. The set lets you authenticate incoming requests from Coursera to track learning completions.
    a. Sign in to *Oracle Cloud console*.
    b. On the navigation menu, select **Identity & Security** > **Domains**.

       Complete steps c through l as many times as you have PODs. For example, to enable integration in a development POD and a production POD, complete the steps twice.

    c. On the Integrated applications tab, *add a confidential application* for Coursera.
    d. Enter a unique name that includes Coursera for easy identification, such as **Coursera dev** or **Coursera prod**, and a description.
    e. Submit the application.
    f. In the Configure OAuth step, configure the app as a client now.
    g. For authorization, select **Client credentials.**
    h. In the Token issuance policy section, add specific authorized resources that are accessible to the users.
    i. Add either the Oracle Applications Cloud (Fusion) or the Fusion Applications Cloud Service scope, whichever is available.

       The description shows the scope in the format `<resource audience><resource scope>`, for example, `urn:opc:resource:fa:instsanceid=630113349urn:opc:resource:consumer::all`. Copy this scope, which is different for each of your environments, because you'll need to share this information with Coursera.

    j. Submit the configuration.
    k. Review the configuration and activate the app.
    l. From the OAuth configuration page of your activated app, copy the client ID and client secret values because you'll need to share this information with Coursera.
5. Share this information with Coursera so that they can authenticate xAPIs to send content and tracking information:
    - Oracle Client ID
    - Oracle Client secret
    - Token URL or OAuth server URL

      It's in the form **https://<your_idcs_domain>/oauth2/v1/token**. You get the `domain` value from the domain overview page, Domain information tab.
    - Scope
6. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Coursera.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Coursera will get API authentication failures when sending content to Oracle Learning.

7. Configure the Oracle client ID from step 4 as a user account that you'll use in step 8.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account. Make sure that the user name is the same as the Oracle client ID value. Any discrepancy might lead to an unsuccessful configuration.
    d. Add the job role that you created in step 6.
8. Enable Coursera.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Coursera and enter the user account created in step 7, it's the same as the client ID.
    c. Select a learning catalog profile to apply to all imported Coursera learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How Coursera learning types map to Oracle self-paced learning types

Neither mapping can be updated. Coursera sends completions at 4-hour intervals, so learners can experience up to a 4-hour delay between when they complete content and see changes to their enrollment progress.

Coursera learning type	Oracle self-paced learning type	Can update mapping	Learner completion
Course	Online Course	No	Automatic when completed in Coursera

Coursera learning type	Oracle self-paced learning type	Can update mapping	Learner completion
Specialization	Learning Path		

Coursera content details you can change

Some Coursera content details can't be changed in Oracle Learning because Coursera maintains authority over its content. Coursera does send content updates to Oracle Learning as it makes changes. Here's what you can and can't change in Oracle Learning.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling Coursera learning completions

Here's what happens between Coursera and Oracle Learning when a learner starts and completes a Coursera course or specialization.

When a learner starts a course or specialization, Coursera sends xAPI statements.

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with an In progress status.
- If the learner is already enrolled, their Oracle Learning enrollment remains in the In progress status.

Coursera doesn't send any xAPI statements while the learner is working on the content. When the learner completes a course or specialization, Coursera again sends xAPI statements. When Oracle Learning gets the statements, it updates

the enrollment to the Completed status. Because Coursera sends these statements at 4-hour intervals, learners can experience up to a 4-hour delay between completion and their enrollment status change.

After completing an enrollment, a learner can retake assessments to improve their grades. By default, Coursera generates relevant xAPI statements with the updated score, but you can configure Coursera to disable this behavior. If Oracle Learning gets these xAPI statements from Coursera, it creates another enrollment for the learner, with the new score.

5 Edflex

Integrate Edflex with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Edflex learning in Oracle Learning.

1. Make sure that you have an active account with Edflex that allows integrations.
2. Configure Single Sign On between Oracle Learning and Edflex to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In *Oracle Cloud Infrastructure Identity and Access Management*, generate a unique set of Oracle client ID, client secret, token URL or OAuth server URL, and scope for each POD where you're enabling integration. The set lets you authenticate incoming requests from Edflex to track learning completions.
    a. Sign in to *Oracle Cloud console*.
    b. Select **Navigator** > **Identity & Security** > **Domains**.

    Complete steps c through l as many times as you have PODs. For example, to enable integration in a development POD and a production POD, complete the steps twice.

    c. On the Integrated applications tab, *add a confidential application* for Edflex.
    d. Enter a unique name that includes Edflex for easy identification, such as **Edflex dev** or **Edflex prod**, and a description.
    e. Submit the application.
    f. In the Configure OAuth step, configure the app as a client now.
    g. For authorization, select **Client credentials**.
    h. In the Token issuance policy section, add specific authorized resources that are accessible to the users.
    i. Add the Oracle Applications Cloud (Fusion) scope.

    The description shows the scope in the format `<resource audience><resource scope>`, for example, `urn:opc:resource:fa:instsanceid=630113349urn:opc:resource:consumer::all`. Copy this scope, which is different for each of your environments, because you'll need to share this information with Edflex.

    j. Submit the configuration.
    k. Review the configuration and activate the app.
    l. From the OAuth configuration page of your activated app, copy the client ID and client secret values because you need to share this information with Edflex.
5. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Edflex.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Edflex will get API authentication failures when sending content to Oracle Learning.

6. Configure the Oracle client ID from step 4 as a user account that you'll use in step 7.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account. Make sure that the user name is the same as the Oracle client ID value. Any discrepancy might lead to an unsuccessful configuration.
    d. Add the job role that you created in step 5.
7. Enable Edflex.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Edflex and enter the user account created in step 6.
    c. Select a learning catalog profile to apply to all imported Edflex learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration.
    f. Optional: Change the attribute mappings between certain Edflex attributes and Oracle Learning attributes that you might have extended or changed.
8. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learnin
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

9. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How Edflex learning types map to Oracle self-paced learning types

Edflex sends completions in near real time.

Edflex learning type	Oracle self-paced learning type	Can update mapping	Completion rule
Course	Online Course	No	Content handles completion

Edflex learning type	Oracle self-paced learning type	Can update mapping	Completion rule
Video	Video	No	Content handles completion
Article	Article	No	Content handles completion
Podcast	Podcast	No	Content handles completion
Book	Book	No	Content handles completion
Top voice	Learning Path	Yes	Require content completion and learner confirmation
Interactive	Online Course	Yes	Content handles completion
Certificate	Assessment	Yes	Require content completion and learner confirmation
Assessment	Assessment	Yes	Content handles completion
Lab	Assessment	Yes	Content handles completion
Program	Learning Path	N	Content handles completion
Role-play	Assessment	Yes	Content handles completion

Edflex content details you can change

Some Edflex content details can't be changed in Oracle Learning because Edflex maintains authority over its content. Edflex does send content updates to Oracle Learning as it makes changes. Here's what you can and can't change in Oracle Learning.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling Edflex learning completions

Here's what happens between Edflex and Oracle Learning when a learner starts and completes a Edflex content.

When a learner start a supported learning, Edflex sends xAPI statements.

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with an In progress status.
- If the learner is already enrolled, their Oracle Learning enrollment remains in the In progress status.

Edflex doesn't send any xAPI statements while the learner is working on the content. When the learner completes a supported learning type, Edflex again sends xAPI statements. When Oracle Learning gets the statements, it updates the learner's enrollment to the Completed status.

After completing an enrollment, a learner can browse the courses content, but Edflex doesn't support retaking the course. So Edflex won't send any xAPI statements after the first completion.

> **Note:** For Top-voice and Certificate content types, Edflex doesn't send any xAPI statement on start or complete. So the learner needs to manually mark their learning complete on their Oracle Learning enrollment page.

6 getAbstract

Integrate getAbstract with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing getAbstract learning in Oracle Learning.

1. Make sure that you have an active account with getAbstract that allows integrations.
2. Configure Single Sign On between Oracle Learning and getAbstract to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from getAbstract.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

    > **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise getAbstract will get API authentication failures when sending content to Oracle Learning.

5. Create a user account that you'll use in step 6.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account.

    Give the account a meaningful user name, such as **user.getAbstract** because getAbstract uses this user for both content and completion syncs.

    d. Add the job role that you created in step 4.
6. Enable getAbstract.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure getAbstract and enter the user account created in step 5.
    c. Select a learning catalog profile that will apply to all imported getAbstract learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration.
    f. Optional: Change the attribute mappings between certain getAbstract attributes and Oracle Learning attributes that you might have extended or changed.
7. Contact your getAbstract account team and give them the user name created in step 2. In turn, they'll give you this information:
    - The trusted issuer name for their JWT token, it needs to exactly match the value used when configuring JWT
    - A public certificate so they can authenticate to the Oracle Learning APIs to send content and completion data

8. Create an Oracle API authentication provider to authenticate incoming requests from getAbstract.
    a. Go to **Tools** > **Security Console**.
    b. On the API Authentication tab, create the Oracle API authentication provider.
    c. Edit the API authentication configuration details so that you can enter the trusted issuer name provided by your getAbstract account team and select the JWT token type.

    > **CAUTION:** You need to get the trusted issuer name from getAbstract and the name that you enter needs to match the value they used when generating the token. Any other name results in authentication errors when getAbstract tries to send content.

    d. Save your changes and close the page.
    e. Add a new inbound API authentication public certificate with a unique alias.
    f. Upload the public key (.cer extension file) provided by your getAbstract account team.
    g. Save your changes and select **Done**. Your environment can now accept incoming requests from getAbstract.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How getAbstract learning types map to Oracle self-paced learning types

getAbstract sends completions in near real time.

getAbstract learning type	Oracle self-paced learning type	Can update mapping
Book Summary	Book	Yes, to Document, Article, or Audiobook
Summary	Article	Yes, to Document, Book, or Audiobook
Actionable	Online Course	No

getAbstract content details you can change

Some getAbstract content details can't be changed in Oracle Learning because getAbstract maintains authority over its content. getAbstract does send content updates to Oracle Learning as it makes changes. Here's what you can and can't change in Oracle Learning.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling getAbstract learning completions

Here's what happens between getAbstract and Oracle Learning when a learner starts and completes a getAbstract content.

For Actionable type learning, getAbstract sends xAPI statements to Oracle when learner starts the content.

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with an In progress status.
- If the learner is already enrolled, their Oracle Learning enrollment remains in the In progress status.

getAbstract doesn't send any xAPI statements while the learner is working on the content.

For summary and actionable learning, getAbstract sends xAPI completions to Oracle when the learner completes the learning. When Oracle Learning gets the statements, it updates the enrollment to the Completed status in near real time. getAbstract sends only one completion, even if the learner completes the learning again.

7 Go1

Integrate Go1 with Oracle Learning using JWT-based authentication

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Go1 learning in Oracle Learning.

1. Make sure that you have an active account with Go1 that allows integrations.
2. Configure Single Sign On between Oracle Learning and Go1 to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Go1.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Go1 will get API authentication failures when sending content to Oracle Learning.

5. Create a user account that you'll use in step 6.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account.

       Give the account a meaningful user name, such as **user.go1** because Go1 uses this user for both content and completion syncs.

    d. Add the job role you created in step 4.
6. Enable Go1.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Go1 and enter the user account created in step 5.
    c. Select a learning catalog profile to apply to all imported Go1 learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration.
    f. Optional: Change the attribute mappings between certain Go1 attributes and Oracle Learning attributes that you might have extended or changed.

7. Contact your Go1 customer success manager or support@go1.com and give them the user name created in step 2. In turn, they'll give you this information:
    - The trusted issuer name for their JWT token, it needs to exactly match the value used when configuring JWT
    - A public certificate so they can authenticate to the Oracle Learning APIs to send content and completion data
8. Create an Oracle API authentication provider to authenticate incoming requests from Go1.
    a. Go to **Tools** > **Security Console**.
    b. On the API Authentication tab, create the Oracle API authentication provider.
    c. Edit the API authentication configuration details so that you can enter the trusted issuer name provided by your Go1 customer success manager or support@go1.com and select the JWT token type.

    > **CAUTION:** You need to get the trusted issuer name from Go1 and the name that you enter needs to match the value they used when generating the token. Any other name results in authentication errors when Go1 tries to send content.

    d. Save your changes and close the page.
    e. Add a new inbound API authentication public certificate with a unique alias.
    f. Upload the public key (.cer extension file) provided by your Go1 customer success manager or support@go1.com.
    g. Save your changes and select **Done**. Your environment can now accept incoming requests from Go1.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

Integrate Go1 with Oracle Learning using OAuth-based authentication

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Go1 learning in Oracle Learning.

1. Make sure that you have an active account with Go1 that allows integrations.
2. Configure Single Sign On between Oracle Learning and Go1 to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In *Oracle Cloud Infrastructure Identity and Access Management*, generate a unique set of Oracle client ID, client secret, token URL or OAuth server URL, and scope for each POD where you're enabling integration. The set lets you authenticate incoming requests from Go1 to track learning completions.
    a. Sign in to *Oracle Cloud console*.
    b. On the navigation menu, select **Identity & Security** > **Domains**.

       Complete steps c through l as many times as you have PODs. For example, to enable integration in a development POD and a production POD, complete the steps twice.

    c. On the Integrated applications tab, *add a confidential application* for Go1.
    d. Enter a unique name that includes Go1 for easy identification, such as **Go1 dev** or **Go1 prod**, and a description.
    e. Submit the application.
    f. In the Configure OAuth step, configure the app as a client now.
    g. For authorization, select **Client credentials**.
    h. In the Token issuance policy section, add specific authorized resources that are accessible to the users.
    i. Add either the Oracle Applications Cloud (Fusion) or the Fusion Applications Cloud Service scope, whichever is available.

       The description shows the scope in the format `<resource audience><resource scope>`, for example, `urn:opc:resource:fa:instsanceid=630113349urn:opc:resource:consumer::all`. Copy this scope, which is different for each of your environments, because you'll need to share this information with Go1.

    j. Submit the configuration.
    k. Review the configuration and activate the app.
    l. From the OAuth configuration page of your activated app, copy the client ID and client secret values because you'll need to share this information with Go1.
5. Share this information with Go1 so that they can authenticate xAPIs to send content and tracking information:
    - Oracle Client ID
    - Oracle Client secret
    - Token URL or OAuth server URL

      It's in the form **https://<your_idcs_domain>/oauth2/v1/token**. You get the `domain` value from the domain overview page, Domain information tab.
    - Scope
6. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Go1.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Go1 will get API authentication failures when sending content to Oracle Learning.

7. Configure the Oracle client ID from step 4 as a user account that you'll use in step 8.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account. Make sure that the user name is the same as the Oracle client ID value. Any discrepancy might lead to an unsuccessful configuration.
    d. Add the job role that you created in step 6.
8. Enable Go1.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Go1 and enter the user account created in step 7, it's the same as the client ID.
    c. Select a learning catalog profile to apply to all imported Go1 learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration/
    f. Optional: Change the attribute mappings between certain Go1 attributes and Oracle Learning attributes that you might have extended or changed.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How Go1 learning types map to Oracle self-paced learning types

Here's how:

Go1 learning type	Oracle self-paced learning type	Can update mapping	Learner completion
Course	Online Course	No	Automatic when completed in Go1

Go1 learning type	Oracle self-paced learning type	Can update mapping	Learner completion
Audio	Audiobook		
Video	Video		
Text	Article	Yes, to Document or any customer-created type	
Document	Document	No	
Link	Online Course	Yes, to any other Go1 supported or customer-created type	
Interactive	Online Course	No	

Go1 content details you can change

Some Go1 content details can't be changed in Oracle Learning because Go1 maintains authority over its content. Go1 does send content updates to Oracle Learning as it makes changes. Here's what you can and can't change in Oracle Learning.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling Go1 learning completions

Here's what happens between Go1 and Oracle Learning when a learner starts and completes a supported Go1 learning.

When a learner start a supported learning, Go1 sends xAPI statements

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with an In progress status.
- If the learner is already enrolled, their Oracle Learning enrollment remains in the In progress status.

Go1 doesn't send any xAPI statements while the learner is working on the content. When the learner completes a supported learning type, Go1 again sends xAPI statements. When Oracle Learning gets the statements, it updates the learner's enrollment to the Completed status.

After a learner completes any supported learning, they can re-enroll in it in Go1. Re-enrollment in Go1 creates another Oracle Learning enrollment with the In progress status, for the learner.

8 Harvard Business Publishing

Integrate Harvard Business Publishing with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Harvard Business Publishing learning in Oracle Learning.

1. Make sure that you have an active account with Harvard Business Publishing that allows integrations. If you have the license, the integration will also sync Harvard Manage Mentor courses.
2. Configure Single Sign On between Oracle Learning and Harvard Business Publishing to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In *Oracle Cloud Infrastructure Identity and Access Management*, generate a unique set of Oracle client ID, client secret, token URL or OAuth server URL for each POD where you're enabling integration. The set lets you authenticate incoming requests from Harvard Business Publishing to track learning completions.
    a. Sign in to *Oracle Cloud console*.
    b. On the navigation menu, select **Identity & Security** > **Domains**.

       Complete steps c through l as many times as you have PODs. For example, to enable integration in a development POD and a production POD, complete the steps twice.

    c. On the Integrated applications tab, *add a confidential application* for Harvard Business Publishing.
    d. Enter a unique name that includes Harvard Business Publishing for easy identification, such as **Harvard Business Publishing dev** or **Harvard Business Publishing prod**, and a description.
    e. Submit the application.
    f. In the Configure OAuth step, configure the app as a client now.
    g. For authorization, select **Client credentials**.
    h. In the Token issuance policy section, add specific authorized resources that are accessible to the users.
    i. Add either the Oracle Applications Cloud (Fusion) or the Fusion Applications Cloud Service scope, whichever is available.

       The description shows the scope in the format `<resource audience><resource scope>`, for example, `urn:opc:resource:fa:instsanceid=630113349urn:opc:resource:consumer::all`. Copy this scope, which is different for each of your environments, because you'll need to share this information with Harvard Business Publishing.

    j. Submit the configuration.
    k. Review the configuration and activate the app.
    l. From the OAuth configuration page of your activated app, copy the client ID and client secret values because you'll need to share this information with Harvard Business Publishing.

5. Share this information with Harvard Business Publishing so that they can authenticate xAPIs to send content and tracking information:
    - Oracle Client ID
    - Oracle Client secret
    - Token URL or OAuth server URL

      It's in the form **https://<your_idcs_domain>/oauth2/v1/token**. You get the `domain` value from the domain overview page, Domain information tab.
    - Scope
6. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Harvard Business Publishing.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Harvard Business Publishing will get API authentication failures when sending content to Oracle Learning.

7. Configure the Oracle client ID from step 4 as a user account that you'll use in step 8.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account. Make sure that the user name is the same as the Oracle client ID value. Any discrepancy might lead to an unsuccessful configuration.
    d. Add the job role that you created in step 6.
8. Enable Harvard Business Publishing.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Harvard Business Publishing and enter the user account created in step 7.
    c. Select a learning catalog profile to apply to all imported Harvard Business Publishing learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration.
    f. Optional: Change the attribute mappings between certain Harvard Business Publishing attributes and Oracle Learning attributes you might have extended or changed.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately

Process	Input parameter	Recommended frequency	Description
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups process to run daily if it's not already scheduled.

How Harvard Business Publishing learning types map to Oracle Learning types

Here's how Harvard Business Publishing learning types map to self-paced learning types in Oracle Learning.

Harvard Business Publishing learning type	Oracle self-paced learning type	Can update napping	Learner completion
Article	Article	No	Learner manually marks their enrollment as complete
Assessment	Assessment	Yes, to use an observation checklist or any customer-created type	
Case Study	Article	Yes, to use a book, document, or any customer-created type	
Course	Online Course	No	Automatic when completed in Harvard Business Publishing
Lesson	Online Course	Yes, to use any customer-created type	Learner manually marks their enrollment as complete
Pathway	Learning Path	No	Learner manually marks their enrollment as complete
Podcast	Podcast	No	Learner manually marks their enrollment as complete
Tip	Article	Yes, to a book, document, or any customer-created type	
Video	Video	No	

Harvard Business Publishing content details you can change

Some Harvard Business Publishing content details can't be changed in Oracle Learning because Harvard Business Publishing maintains authority over its content. Harvard Business Publishing does send content updates to Oracle Learning as it makes changes.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling Harvard Business Publishing learning completions

Here's what happens between Harvard Business Publishing and Oracle Learning when a learner starts and completes a learning pathway.

When a learner start a learning pathway, Harvard Business Publishing sends xAPI statements.

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with an In progress status.
- If the learner is already enrolled, their Oracle Learning enrollment remains in the In progress status.

Harvard Business Publishing doesn't send any xAPI statements while the learner is working on the content. When the learner completes a course or learning pathway, Harvard Business Publishing again sends xAPI statements. It sends the statements only once for each course or pathway. When Oracle Learning gets the statements, it updates the enrollment to the Completed status.

The learner needs to manually update their enrollment to Completed for all other learning types. And the learner can review completed content, but not re-enroll.

9 Intuition

Integrate Intuition with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Intuition learning in Oracle Learning.

1. Make sure that you have an active account with Intuition that allows integrations.
2. Configure Single Sign On between Oracle Learning and Intuition to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In *Oracle Cloud Infrastructure Identity and Access Management*, generate a unique set of Oracle client ID, client secret, token URL or OAuth server URL for each POD where you're enabling integration. The set lets you authenticate incoming requests from Intuition to track learning completions.
    a. Sign in to *Oracle Cloud console*.
    b. On the navigation menu, select **Identity & Security** > **Domains**.

       Complete steps c through l as many times as you have PODs. For example, to enable integration in a development POD and a production POD, complete the steps twice.

    c. On the Integrated applications tab, *add a confidential application* for Intuition.
    d. Enter a unique name that includes Intuition for easy identification, such as **Intuition dev** or **Intuition prod**, and a description.
    e. Submit the application.
    f. In the Configure OAuth step, configure the app as a client now.
    g. For authorization, select **Client credentials**.
    h. In the Token issuance policy section, add specific authorized resources that are accessible to the users.
    i. Add the Oracle Applications Cloud (Fusion) scope.

       The description shows the scope in the format `<resource audience><resource scope>`, for example, `urn:opc:resource:fa:instsanceid=630113349urn:opc:resource:consumer::all`. Copy this scope, which is different for each of your environments, because you'll need to share this information with Intuition.

    j. Submit the configuration.
    k. Review the configuration and activate the app.
    l. From the OAuth configuration page of your activated app, copy the client ID and client secret values because you need to share this information with Intuition.
5. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Intuition.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Intuition will get API authentication failures when sending content to Oracle Learning.

6. Configure the Oracle client ID from step 4 as a user account that you'll use in step 8.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account. Make sure that the user name is the same as the Oracle client ID value. Any discrepancy might lead to an unsuccessful configuration.
    d. Add the job role that you created in step 5.
7. Share this information with your Intuition account manager, so they can share it with their integration teams:
    - Oracle Client ID
    - Oracle Client Secret
    - Scope
    - Token URL
8. In Oracle Learning, enable Intuition.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Intuition and enter the provider client ID and client secret credentials.
    c. For user name, search for and select the Oracle Client ID created in step 4.
    d. Select a learning catalog profile to apply to all imported Intuition content. The profile identifies who can see and manage the learning.
    e. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    f. Validate the configuration.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
Load and Synchronize External Course Data	Force Reload is No	Once per day	Get content updates - New content - Updates to existing content - Content retirements
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How Intuition learning types map to Oracle self-paced learning types

Here's how:

Intuition learning type	Oracle Learning type	Can update mapping	Learner completion
Course	Online Course	No	Automatic when completed in Intuition
Assessment	Assessment	No	Automatic when completed in Intuition

Intuition learning content details you can change

Some Intuition learning content details can't be changed in Oracle Learning because Intuition maintains authority over its content. Intuition does send content updates to Oracle Learning as it makes changes.

Here's what you can and can't change in Oracle Learning.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling Intuition learning completions

Here's what happens between Intuition and Oracle Learning when a learner starts and completes an Intuition content.

When a learner completes a course, Intuition sends xAPI statements indicating the completion. The statements are sent in near real time.

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with completed status.
- If the learner is already enrolled, their Oracle Learning enrollment will be updated to completed.

Intuition doesn't send any xAPI statements when learner starts content or while the learner is working on the content. When Oracle Learning gets the statements, it updates the learner's enrollment to the Completed status.

After completing an enrollment, a learner can retake the course or assessment. Intuition will send other completion for each learner retake and Oracle Learning will generate a new enrollment.

10 LinkedIn Learning

Integrate LinkedIn Learning with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing LinkedIn Learning learning in Oracle Learning.

1. Make sure that you have an active enterprise subscription with LinkedIn Learning.
2. Configure Single Sign On between Oracle Learning and LinkedIn Learning to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In LinkedIn Learning, generate a client app and obtain a LinkedIn Learning client ID and client secret using these details:

Property	Value
Application Name	Enter a suitable name for your Oracle Learning content integration.
Application Description	Enter a suitable description for your Oracle Learning content integration.
Choose keys	Select the Content checkbox.

5. In *Oracle Cloud Infrastructure Identity and Access Management*, generate a unique set of Oracle client ID, client secret, token URL or OAuth server URL, and scope for each POD where you're enabling integration. The set lets you authenticate incoming requests from LinkedIn Learning to track learning completions.
    a. Sign in to *Oracle Cloud console*.
    b. On the navigation menu, select **Identity & Security** > **Domains**.

    Complete steps c through l as many times as you have PODs. For example, to enable integration in a development POD and a production POD, complete the steps twice.

    c. On the Integrated applications tab, *add a confidential application* for LinkedIn Learning.
    d. Enter a unique name that includes LinkedIn Learning for easy identification, such as **LinkedIn Learning dev** or **LinkedIn Learning prod**, and a description.
    e. Submit the application.
    f. In the Configure OAuth step, configure the app as a client now.
    g. For authorization, select **Client credentials**.
    h. In the Token issuance policy step, add specific authorized resources that are accessible to the users.
    i. Add either the Oracle Applications Cloud (Fusion) or the Fusion Applications Cloud Service scope, whichever is available.

    The description shows the scope in the format `<resource audience><resource scope>`, for example, `urn:opc:resource:fa:instsanceid=630113349urn:opc:resource:consumer::all`. Copy this scope, which

is different for each of your environments, because you'll need to share this information with LinkedIn Learning.

j. Submit the configuration.
k. Review the configuration and activate the app.
l. From the OAuth configuration page of your activated app, copy the client ID and client secret values because you need to share this information with LinkedIn Learning.

6. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from LinkedIn Learning.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise LinkedIn Learning will get API authentication failures when sending content to Oracle Learning.

7. Configure the Oracle client ID from step 4 as a user account that you'll use in step 9. Oracle Learning uses the account when querying LinkedIn Learning to get new and updated content.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**.
    c. Enter the appropriate user details so you can identify the account. Make sure that the user name is the same as the Oracle client ID value. Any discrepancy might lead to an unsuccessful configuration.
    d. Add the job role that you created in step 5.
8. In LinkedIn Learning, *set up xAPI integration* using these details:

Property	Value	Comments
Integration Name	Any meaningful name for your Oracle Learning integration	NA
User Type	Email	Included in xAPI statements sent by LinkedIn Learning, Oracle Learning uses the email to identify the appropriate learner.
OAuth token URL	OAuth token obtained in step 4	Gets the access token using client credentials. It's in the format `https://idcs-a79107525a3e47319c208830b3cfc15a.identity.oraclecloud.com/oauth2/v1/token` The URL needs to be unique to each POD where you enable the integration
Tenant Server URL	`https://<hostname>/hcmRestApi/redwood/xAPI/statements` Where `hostname` is for your Oracle Learning environment.	If the app URL is `https://fa-eodv-test-saasfaprod1.fa.ocs.oraclecloud.com/fscmUI/faces/FuseWelcome`, `hostname` should be `fa-eodv-test-saasfaprod1.fa.ocs.oraclecloud.com`. The tenant server URL would then be:

Property	Value	Comments
		`https://fa-eodv-test-saasfaprod1.fa.ocs.oraclecloud.com/hcmRestApi/redwood/xAPI/statements`
Client ID	Oracle Client ID obtained in step 4	These credentials need to be unique for each POD where you enable the integration
Client Secret	Oracle Client Secret obtained in step 4	
Scope	Scope obtained in step 4	Needed for integration to work, even though its shown as optional
Course Completions	Select	Leave Course Progress unchecked because the integration doesn't support it.
Learning Path Completions		
Video Completions		

9. In Oracle Learning, enable LinkedIn Learning.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure LinkedIn Learning and enter the provider client ID and client secret credentials.
    c. For user name, search for and select the Oracle Client ID created in step 4.
    d. Select a learning catalog profile to apply to all imported LinkedIn Learning learning. The profile identifies who can see and manage the learning.
    e. Change the How to Launch Content setting, as appropriate.

    > **Note:** You need to complete step 2 before selecting **Single sign-on URL**.

    f. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    g. Validate the configuration.
    h. Optional: Change the attribute mappings. These let you map certain LinkedIn Learning attributes to attributes in Oracle Learning that you might have extended or changed.
10. Import the LinkedIn Learning content for the first time using Load and Synchronize External Course Data background process.
    a. Go to **Tools** > **Scheduled Processes**.
    b. Leave the Force All External Course Data to Reload value as **No**. This import adds the LinkedIn Learning content to your Oracle Learning catalog as self-paced learning and might take many hours to complete.

    > **CAUTION:** To avoid any import failures, don't change any settings for the LinkedIn Learning account, such as user name or status, while this process runs.

11. If they aren't already scheduled, schedule these background processes using the **Tools** > **Scheduled Processes** task.

Process	Input parameter	Recommended frequency	Description
Load and Synchronize External Course Data	Force All External Course Data to Reload is No	Once per day	The first time the process runs, it adds the LinkedIn Learning content as self-paced learning, which might take hours to complete **CAUTION:** To avoid any import failures, don't changes any settings for the LinkedIn Learning account, such as user name or status, while this process runs Get content updates o New content o Updates to existing content o Content retirements
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

12. If you set the provider content visibility to private, schedule the Reconcile User Groups process to run daily if it's not already scheduled.

How LinkedIn Learning types map to Oracle self-paced learning types

Here's how:

LinkedIn Learning type	Oracle Learning type	Can update mapping	Learner completion
Course	Online Course	No	Automatic when completed in LinkedIn Learning
Learning Path	Learning Path	No	Automatic when completed in LinkedIn Learning

LinkedIn Learning content details you can change

Some LinkedIn Learning content details can't be changed in Oracle Learning because LinkedIn Learning maintains authority over its content. LinkedIn Learning does send content updates to Oracle Learning as it makes changes.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling LinkedIn Learning completions

Here's what happens between LinkedIn Learning and Oracle Learning when a learner starts and completes a LinkedIn Learning course or learning path.

When a learner completes a course or learning path, LinkedIn Learning sends xAPI statements indicating the completion. The statements are sent in near real time.

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with completed status.
- If the learner is already enrolled, their Oracle Learning enrollment will be updated to completed.

Oracle Learning doesn't process any intermediate progress statements sent by LinkedIn Learning.

After completing an enrollment, a learner can browse the course content, but LinkedIn Learning doesn't support retaking the course. So LinkedIn Learning won't send any xAPI statements after the first completion.

11 O'Reilly Media

Integrate O'Reilly with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing O'Reilly learning in Oracle Learning.

1. Make sure that you have an active account with O'Reilly that allows integrations.
2. Configure Single Sign On between Oracle Learning and O'Reilly to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from O'Reilly.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise O'Reilly will get API authentication failures when sending content to Oracle Learning.

5. Create a user account that you'll use in step 6.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account.

       Give the account a meaningful user name, such as **user.o'reilly**. O'Reilly uses this user for both content and completion syncs.

    d. Add the job role that you created in step 4.
6. Enable O'Reilly.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure O'Reilly and enter the user account created in step 5.
    c. Select a learning catalog profile to apply to all imported O'Reilly learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration/
    f. Optional: Change the attribute mappings between certain O'Reilly attributes and Oracle Learning attributes that you might have extended or changed.
7. Contact O'Reilly Platform Integration (`platformintegration@oreilly.com`) and give them the user name created in step 2. In turn, they'll give you this information:
    - The trusted issuer name for their JWT token, it needs to exactly match the value used when configuring JWT
    - A public certificate so they can authenticate to the Oracle Learning APIs to send content and completion data

8. Create an Oracle API authentication provider to authenticate incoming requests from O'Reilly.
    a. Go to **Tools Security Console**.
    b. On the API Authentication tab, create the Oracle API authentication provider.
    c. Edit the API authentication configuration details so that you can enter the trusted issuer name provided by O'Reilly Platform Integration and select the JWT token type.

    > **CAUTION:** You need to get the trusted issuer name from O'Reilly and the name that you enter needs to match the value they used when generating the token. Any other name results in authentication errors when O'Reilly tries to send content.

    d. Save your changes and close the page.
    e. Add a new inbound API authentication public certificate with a unique alias.
    f. Upload the public key (.cer extension file) provided by O'Reilly Platform Integration.
    g. Save your changes and select **Done**. Your environment can now accept incoming requests from O'Reilly.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How O'Reilly learning types map to Oracle self-paced learning types

Here's how:

O'Reilly learning type	Oracle self-paced learning type	Can update mapping	Learner completion
Sandbox	Assessment	Yes, to use an observation checklist or any customer-created type	Learner manually marks their enrollment complete
Cloud Sandbox	Assessment		
Audiobook	Audiobook	No	Automatic when completed in O'Reilly
Book	Book		

O'Reilly learning type	Oracle self-paced learning type	Can update mapping	Learner completion
Live Event Series	Learning Event		
Live Course	Learning Event		
Certification Guide	Learning Path	Yes, to any customer-created type	Learner manually marks their enrollment complete
Expert Playlist	Learning Path		
Course	Online Course	No	Automatic when completed in O'Reilly
Video	Video		
Article	Article		
Shortcut	Article	Yes, to any customer-created type	
Practice Test	Assessment	Yes, to use an observation checklist or any customer-created type	Learner manually marks their enrollment complete
Lab	Assessment		
Cloud Lab	Assessment		

O'Reilly Media content details you can change

Some O'Reilly Media content details can't be changed in Oracle Learning because O'Reilly Media maintains authority over its content. O'Reilly Media does send content updates to Oracle Learning as it makes changes.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling O'Reilly learning completions

Here's what happens between O'Reilly Media and Oracle Learning when a learner starts and completes a supported O'Reilly learning.

When a learner starts an Article, Audiobook, Book, Course, Live Event, Shortcut or Video, O'Reilly sends xAPI statements

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with an In progress status.
- If the learner is already enrolled, their Oracle Learning enrollment remains in the In progress status.

O'Reilly Media doesn't send any xAPI statements while the learner is working on the content. When the learner completes any learning that supports completions in O'Reilly, O'Reilly sends xAPI statements for learner completion. When Oracle Learning gets the statements, it updates the enrollment to the Completed status.

The learner needs to manually update their enrollment to Completed for all other learning types. Learner can review completed content, but O'Reilly won't send xAPI statements again.

12 OpenSesame

Integrate OpenSesame with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing OpenSesame learning in Oracle Learning.

1. Make sure that you have an active account with OpenSesame that allows integrations.
2. Configure Single Sign On between Oracle Learning and OpenSesame to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In *Oracle Cloud Infrastructure Identity and Access Management*, generate a unique set of Oracle client ID, client secret, token URL or OAuth server URL, and scope for each POD where you're enabling integration. The set lets you authenticate incoming requests from OpenSesame to track learning completions.
    a. Sign in to *Oracle Cloud console*.
    b. On the navigation menu, select **Identity & Security** > **Domains**.

    Complete steps c through l as many times as you have PODs. For example, to enable integration in a development POD and a production POD, complete the steps twice.

    c. On the Integrated applications tab, *add a confidential application* for OpenSesame.
    d. Enter a unique name that includes OpenSesame for easy identification, such as **OpenSesame dev** or **OpenSesame prod**, and a description.
    e. Submit the application.
    f. In the Configure OAuth step, configure the app as a client now.
    g. For authorization, select **Client credentials**.
    h. In the Token issuance policy section, add specific authorized resources that are accessible to the users.
    i. Add the Oracle Applications Cloud (Fusion) scope.

    The description shows the scope in the format `<resource audience><resource scope>`, for example, `urn:opc:resource:fa:instsanceid=630113349urn:opc:resource:consumer::all`. Copy this scope, which is different for each of your environments, because you'll need to share this information with OpenSesame.

    j. Submit the configuration.
    k. Review the configuration and activate the app.
    l. From the OAuth configuration page of your activated app, copy the client ID and client secret values because you need to share this information with OpenSesame.
5. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from OpenSesame.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise OpenSesame will get API authentication failures when sending content to Oracle Learning.

6. Configure the Oracle client ID from step 4 as a user account that you'll use in step 7.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account. Make sure that the user name is the same as the Oracle client ID value. Any discrepancy might lead to an unsuccessful configuration.
    d. Add the job role that you created in step 5.
7. Enable OpenSesame.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure OpenSesame and enter the user account created in step 6.
    c. Select a learning catalog profile to apply to all imported OpenSesame learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration.
    f. Optional: Change the attribute mappings between certain OpenSesame attributes and Oracle Learning attributes that you might have extended or changed.
8. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Experience Statements	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

9. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How OpenSesame learning types map to Oracle self-paced learning types

OpenSesame sends completions in near real time.

OpenSesame learning type	Oracle self-paced learning type	Can update mapping
Interactive	Online Course	Yes

OpenSesame learning type	Oracle self-paced learning type	Can update mapping
Audio	Audiobook	Yes
Book Summary	Book	Yes
Virtual Reality	Online Course	Yes
eBook	Book	Yes
Lab	Online Course	Yes
Game	Online Course	Yes
Rich Media	Online Course	Yes
Animation	Online Course	Yes
Simulation	Online Course	Yes
Presenter-led	Online Course	Yes
Live Action Video	Online Course	Yes

OpenSesame content details you can change

Some OpenSesame content details can't be changed in Oracle Learning because OpenSesame maintains authority over its content. OpenSesame does send content updates to Oracle Learning as it makes changes. Here's what you can and can't change in Oracle Learning.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling OpenSesame learning completions

Here's what happens between OpenSesame and Oracle Learning when a learner starts and completes an OpenSesame content.

When the learner completes a supported learning type, OpenSesame sends xAPI statements. When Oracle Learning gets the statements, it updates the learner's enrollment to the Completed status.

OpenSesame doesn't send any xAPI statements while the learner is working on the content.

After completing an enrollment, if learner takes the course content again, OpenSesame sends another xAPI complete which results in a net new enrollment for learner in Oracle Learning.

13 Skillsoft Percipio

Integrate Skillsoft Percipio with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Skillsoft Percipio learning in Oracle Learning.

1. Make sure that you have an active account with Skillsoft Percipio that allows integrations.
2. Configure Single Sign On between Oracle Learning and Skillsoft Percipio to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Skillsoft Percipio.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

    > **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Skillsoft Percipio will get API authentication failures when sending content to Oracle Learning.

5. Create a user account that you'll use in step 6.
    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**. Make sure the user isn't associated with a person or worker account.
    c. Enter the appropriate user details so you can identify the account.

    Give the account a meaningful user name, such as **user.skillsoftpercipio**. Skillsoft Percipio uses this user for both content and completion syncs.

    d. Add the job role you created in step 4.
6. Enable Skillsoft Percipio.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Skillsoft Percipio and enter the user account created in step 5.
    c. Select a learning catalog profile to apply to all imported Skillsoft Percipio learning. The profile identifies who can see and manage the learning.
    d. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    e. Validate the configuration.
    f. Optional: Change the attribute mappings between certain Skillsoft Percipio attributes and Oracle Learning attributes that you might have extended or changed.
7. Contact your Skillsoft account team and give them the user name and password created in Oracle Learning. In turn, they'll give you this information:
    - The trusted issuer name for their JWT token, it needs to exactly match the value used when configuring JWT
    - A public certificate so they can authenticate to the Oracle Learning APIs to send content

8. Create an Oracle API authentication provider to authenticate incoming requests from Skillsoft Percipio.
    a. Go to **Tools** > **Security Console**.
    b. On the API Authentication tab, create the Oracle API authentication provider.
    c. Edit the API authentication configuration details so that you can enter the trusted issuer name provided by your Skillsoft account team and select the JWT token type.

    > **CAUTION:** You need to get the trusted issuer name from Skillsoft Percipio and the name that you enter needs to match the value they used when generating the token. Any other name results in authentication errors when Skillsoft Percipio tries to send content.

    d. Save your changes and close the page.
    e. Add a new inbound API authentication public certificate with a unique alias.
    f. Upload the public key (.cer extension file) provided by your Skillsoft account team.
    g. Save your changes and select **Done**. Your environment can now accept incoming requests from Skillsoft Percipio.
9. If they're not already scheduled because another provider is already enabled or you've been creating and managing your own self-paced learning, schedule these background processes.
    a. Go to **Tools** > **Scheduled Processes**.

Process	Input parameter	Recommended frequency	Description
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

10. If you set the provider content visibility to private, schedule the Reconcile User Groups background process to run daily if it's not already scheduled.

How Skillsoft Percipio learning types map to Oracle self-paced learning types

Here's how:

Skillsoft Percipio learning type	Oracle self-paced learning type	Can update mapping	Learner completion
Assessment	Assessment	Yes, to use an observation checklist or other nondelivered option	Automatic when completed in Skillsoft Percipio
Audio Book	Audiobook	No	
Book	Book		

Skillsoft Percipio learning type	Oracle self-paced learning type	Can update mapping	Learner completion
Course	Online Course		
Video	Video		
Journey	Learning Path		
Scheduled Content (live event)	Learning Event		

Skillsoft Percipio content details you can Change

Some Skillsoft Percipio content details can't be changed in Oracle Learning because Skillsoft Percipio maintains authority over its content. Skillsoft Percipio does send content updates to Oracle Learning as it makes changes.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling Skillsoft Percipio learning completions

Here's what happens between Skillsoft Percipio and Oracle Learning when a learner starts and completes a supported Skillsoft Percipio learning.

When a learner starts a Book, Audiobook, Course or Benchmark Assessment, Skillsoft Percipio sends xAPI statements

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with an In progress status.
- If the learner is already enrolled, their Oracle Learning enrollment remains in the In progress status.

When the learner completes a supported learning type, Skillsoft Percipio sends xAPI statements for completion. When Oracle Learning gets the statements, it updates the learner's enrollment to the Completed status.

After completion, the learner can restart a course and retake a benchmark assessment in Skillsoft Percipio. These actions in Skillsoft Percipio will generate new xAPI statements and when Oracle Learning gets them, it creates another enrollment for the learner.

14 Udemy Business

Integrate Udemy Business with Oracle Learning

Complete this one-time setup to configure integration, enable secure data exchange, and start importing, tracking, and managing Udemy Business learning in Oracle Learning.

1. Make sure that you have an active enterprise subscription with Udemy Business.
2. Configure Single Sign On between Oracle Learning and Udemy Business to ensure the correct exchange of user information for learner progression tracking. You can use any identity provider.
3. *Enable self-paced learning*.
4. In *Oracle Cloud Infrastructure Identity and Access Management*, generate a unique set of Oracle client ID, client secret, token URL or OAuth server URL, and scope for each POD where you're enabling integration. The set lets you authenticate incoming requests from Udemy Business to track learning completions.
    a. Sign in to *Oracle Cloud console*.
    b. On the navigation menu, select **Identity & Security** > **Domains**.

       Complete steps c through l as many times as you have PODs. For example, to enable integration in a development POD and a production POD, complete the steps twice.

    c. On the Integrated applications tab, *add a confidential application* for Udemy Business.
    d. Enter a unique name that includes Udemy for easy identification, such as **Udemy dev** or **Udemy prod**, and a description.
    e. Submit the application.
    f. In the Configure OAuth step, configure the app as a client now.
    g. For authorization, select **Client credentials**.
    h. In the Token issuance policy step, add specific authorized resources that are accessible to the users.
    i. Add either the Oracle Applications Cloud (Fusion) or the Fusion Applications Cloud Service scope, whichever is available.

       The description shows the scope in the format `<resource audience><resource scope>`, for example, `urn:opc:resource:fa:instsanceid=630113349urn:opc:resource:consumer::all`. Copy this scope, which is different for each of your environments, because you'll need to share this information with Udemy Business.

    j. Submit the configuration.
    k. Review the configuration and activate the app.
    l. From the OAuth configuration page of your activated app, copy the client ID and client secret values because you need to share this information with Udemy Business.

5. In Oracle, create a job role that includes only the Learning Content Provider duty role--don't include any other duty role. The role lets this account use the necessary Oracle APIs to receive content and completions from Udemy Business.
    a. Go to **Tools** > **Security Console**.
    b. On the Roles tab, create your job role.

> **CAUTION:** If you have any IP restrictions or have enabled location-based access control (LBAC), make sure to enable the job role for access from all IP addresses. Otherwise Udemy Business will get API authentication failures when sending content to Oracle Learning.

6. Configure the Oracle client ID from step 4 as a user account that you'll use in step 9.

   Oracle Learning uses the account when querying Udemy Business to get new and updated content.

    a. On the security console Users tab, add a user account.
    b. Set Associated Person Type to **None**.
    c. Enter the appropriate user details so you can identify the account. Make sure that the user name is the same as the Oracle client ID value. Any discrepancy might lead to an unsuccessful configuration.
    d. Add the job role that you created in step 5.
7. Ask your Udemy Business account team for your GraphQL API client credentials for Oracle integration. The team should provide you with Udemy Client ID and Udemy Client secret credentials, which you'll use step 9.
8. In Udemy Business, *set up xAPI integration* using this information:

Property	Value	Comments
LMS/LXP Name	Any meaningful name for your Oracle Learning integration	NA
Auto enrollment	On	NA
xAPI configuration	On	NA
OAuth token URL	Obtained in step 4	Gets the access token using client credentials. It's in the format `https://idcs-a79107525a3e47319c208830b3cfc15a.identity.oraclecloud.com/oauth2/v1/token` The URL needs to be unique to each POD where you enable the integration
Client ID	Oracle Client ID obtained in step 4	These credentials need to be unique for each POD where you enable the integration
Client Secret	Oracle Client Secret obtained in step 4	
OAuth Scope	Scope obtained in step 4	Needed for integration to work, even though its shown as optional
xAPI statements URL	`https://<hostname>/hcmRestApi/redwood/xAPI/statements` Where `hostname` is for your Oracle learning environment	If the app URL is `https://fa-eodv-test-saasfaprod1.fa.ocs.oraclecloud.com/fscmUI/faces/FuseWelcome` then `hostname` is `fa-eodv-test-saasfaprod1.fa.ocs.oraclecloud.com` The xAPI statements URL will be `https://fa-eodv-test-saasfaprod1.fa.ocs.oraclecloud.com/hcmRestApi/redwood/xAPI/statements`

9. In Oracle Learning, enable Udemy Business.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. Configure Udemy Business and enter the provider client ID and client secret credentials.
    c. For user name, search for and select the Oracle Client ID created in step 4.
    d. Select a learning catalog profile to apply to all imported Udemy Business learning. The profile identifies who can see and manage the learning.
    e. Optional: Configure audience and catalog settings. The settings apply to new content imported after you validate your changes. Changes aren't automatically applied to content imported before you validate these changes.
    f. Validate the configuration.
10. If they aren't already scheduled, schedule these background processes using the **Tools** > **Scheduled Processes** task.

Process	Input parameter	Recommended frequency	Description
Load and Synchronize External Course Data	Force All External Course Data to Reload is No	Once per day	The first time the process runs, it adds the Udemy Business content as self-paced learning, which might take hours to complete **CAUTION:** To avoid any import failures, don't changes any settings for the Udemy Business account, such as user name or status, while this process runs Get content updates o New content o Updates to existing content o Content retirements
ESS job to run Bulk ingest to OSCS	Program Name is OLC-REST	Once per day, after the Load and Synchronize External Course Data process completes	Make new content and updates visible to people in Oracle Learning
Process Learning Experience Statements	NA	Once per day	Process any learner experience statements that for some reason weren't processed immediately
Process Learning Catalog Item Deactivations and Deletions	NA	Once per day, after the Load and Synchronize External Course Data process completes	Deactivate content and withdraw active enrollments

11. If you set the provider content visibility to private, schedule the Reconcile User Groups process to run daily if it's not already scheduled.

How Udemy Business learning types map to Oracle Learning types

Neither mapping can be updated.

Udemy type	Oracle Learning type	Learner completion
Course	Online Course	Automatic when completed in Udemy Business
Learning path	Learning path	

Udemy content details you can change

Some Udemy Business content details can't be changed in Oracle Learning because Udemy Business maintains authority over its content. Udemy Business does send content updates to Oracle Learning as it makes changes.

Can change	Can't change
Visibility	Content URL
Notification pattern	Title
Oracle Learning catalog visibility dates	Summary
Coordinator	Description
Related materials	Instruction languages
Additional information	Expected effort
Skills and qualifications	Publisher
Topics and community associations	Instructor
Featured dates	Completion rules
	Status
	Deactivation date

Handling Udemy Business learning completions

Here's what happens between Udemy Business and Oracle Learning when a learner starts and completes a Udemy Business course or learning path.

When a learner completes a course or learning path, Udemy Business sends xAPI statements indicating the completion. The statements are sent in near real time, but there can delay of a few minutes.

- If the learner isn't already enrolled through Oracle Learning, Oracle Learning creates their enrollment with completed status.
- If the learner is already enrolled, their Oracle Learning enrollment will be updated to completed.

Oracle doesn't process any intermediate progress statements sent by Udemy Business.

After completing an enrollment, a learner can browse the course or learning path content, but Udemy Business doesn't support retaking the learning. So Udemy Business won't send any xAPI statements after the first completion.

15 External content data exchange

External content provider and Oracle Learning data exchange reference

Here are the Oracle Learning actions that start communications with the configured external content provider, and the endpoint used. You can also see what information each action sends to and gets from the content providers.

Action	Sent from Oracle Learning	Sent from the External Content Provider
Provider pushes content to Oracle Learning using REST API	NA	This is the information that providers can send, the actual information sent depends on the provider Content URL Title Summary Description Instruction languages Expected effort Publisher Author Instructor Status Deactivation date Cover art URL
Learner goes to the provider content page using single sign in	User information per SSO SAML configuration	NA
Provider pushes learner progressions to Oracle Learning using xAPI statements	NA	Transferred as part of the xAPI statement body • User information required to identify the learner in Oracle Learning and update their enrollments Based on provider configuration, it can either be user's primary work email or their Oracle Learning user name. • Unique identifier for the provider content

Action	Sent from Oracle Learning	Sent from the External Content Provider
		• Time stamp that's the date and time for the learner's experience For completions, Oracle Learning stores the time stamp as the completion date. • Duration (optional): If available, it's stored as the actual effort in the learner's completion record and displayed in their transcript • Score (optional): If available, it's stored as the actual score in the learner's completion record and displayed in their transcript

16 Test the Integration

Test the integration between external content providers and Oracle Learning

After you configure the integration between the external content provider and Oracle Learning, complete validations as a learning administrator and learner.

Validate as a learning administrator

1. Go to **My Client Groups** > **Learning and Development**.
2. Validate the integration using either the **Self-Paced Learning**, **Courses**, and **Offerings** tasks, or the **Learning Catalog** task. The available tasks depend on your implementation.
    a. Validate the provider content by confirming that you can:
        - Search using various provided filters, such as Publisher, Learning Type, and Language.
        - View provider content by selecting the content title. Make sure all provider information is populated and as expected per the configured mappings, including the learning type, learning level, and business drivers.
        - Only view the information managed by the provider, such as title, description, effort, and language.
        - Change the updatable information and save the changes.
        - See all the translated versions of the learning.
    b. Validate content updates by confirming that you can see any changes to provider content metadata, such as title, description, cover art, and languages.
    c. Validate immediately retired provider content by confirming that you can:
        - Find retired content and that the status is Inactive.
        - Withdraw learning assignments for retired content.
    d. Validate future-dated content retirement by confirming that you can search for provider content before the retirement date, and that the status is still Active.
    e. Validate reactivation of retired content by confirming that you can search for the reactivated provider content, and that the status is Active.
    f. Validate learning assignments by confirming that you can search for, create, and manage learning assignments for provider content, including changing the assignment status.

    Use the Learning Assignment Profiles and Learning Assignment tasks.

Validate as a learner

1. Go to **Me** > **Learning** > **Learning Catalog** and validate the provider content.

    Confirm that you can:

    - You can search the provider content using various provided filters, including language.
    - You can view provider learning details by selecting Learn More on the expanded learning card.

- You can enroll in the provider learning.
- You can launch the provider learning from the enrollment page. you're taken to the appropriate content page on the provider's site through your Oracle single sign in credentials.

Also confirm that your enrollment status changes to In progress after you start the content. And that it changes to Completed after you complete the provider content and satisfy the content completion criteria.

2. Go to My Learning and validate the provider content and learning enrollments.

   Confirm that you:

   - You can search your enrollments for provider learning and see your progress.
   - You can withdraw from the provider learning that you enrolled in.
   - You can recommend the provider learning.
   - You can rate the provider learning.
   - You can report the provider learning, if this action is enabled.

   Also confirm that your learning transcript shows the completed provider learning.

3. Return to Learning Catalog and validate content updates.

   Confirm that you can see any changes to provider content metadata, such as title, description, cover art, and languages when searching the catalog. Make sure you can see the same changes in your learning enrollment after enrollments with changes are reconciled.

   Validate future-dated content retirement by confirming that you can still:

   - Search for the provider content before the retirement date.
   - View or launch the retiring content on the provider's site from the enrollment page.

   Validate reactivation of retired content by confirming that you can:

   - Search for the reactivated provider content.
   - View or launch the reactivated content on the provider's site from the enrollment page.

4. Validate immediately retired content.

   Confirm that you can:

   - Withdraw from the enrollment for the retired content.
   - No longer find the retired provider content.
   - No longer view or launch the retired content on the provider's site, even though you can still see the enrollment for the retired content.

17 Stop Imports

Stop importing content to the Oracle Learning catalog

To stop syncing learning, deactivate the relevant imported xAPI-based learning. Deactivation doesn't remove previously imported content because you might want to keep it for reference in learner transcripts. It does stop processing of any provider updates and requests.

1. Edit the self-paced learning and deactivate it.
    a. Go to **My Client Groups** > **Learning and Development** > **Self-Paced Learning** or **Learning Catalog**.
2. Inactivate the external content provider.
    a. Go to **My Client Groups** > **Learning and Development** > **Configure External Providers**.
    b. In the applicable row, select **Configure**.
    c. Set the status to **Inactive**.
    d. Save your changes and close the page.
3. Ask the external content provider to stop or pause syncing on their end so they no longer send requests.

18 Scheduled background processes reference

Load and Synchronize External Course Data

Use this process to load the available courses for all enabled content providers to Oracle Learning, such as LinkedIn and Skillsoft. We recommend that you run it daily and manually as needed to force syncs.

Schedule this process by going to **Tools** > **Scheduled Processes**. By default, Force All External Course Data to Reload is **No**. This is the normal mode and shouldn't be changed to Yes unless directed to by Oracle Support.

Here's what this process does:

- Creates the necessary Learning HACP content items, course, offering, and offering activities so learners can access these external courses directly in Learning
- Updates all existing content, including content you haven't imported

  If you manually added a branding image to an imported course managed by the external provider, the import overwrites that image.
- End dates existing content that's no longer in the provider's catalog

Learner progress and completions are reflected in their transcripts.

Process Learning Catalog Item Deactivations and Deletions

Use this process to handle self-paced learning deactivations and deletions whether the learning was created in Oracle Learning or imported from external content providers.

We recommend that you run it once per day, after the Load and Synchronize External Course Data process completes. Schedule this process by going to **Tools** > **Scheduled Processes**.

Process Learning Experience Statements

Use this process to interpret the xAPI statements sent by external content providers and updates learner attempt progressions and completions in Oracle Learning accordingly. We recommend that you run it once a day.

Schedule this process by going to **Tools** > **Scheduled Processes**.