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Connect PowerCampus to Ethos Integration

Set up PowerCampus APIs and messaging components to support messaging between PowerCampus and other applications using Ellucian Ethos Integration.

PowerCampus setup checklist

The checklist below lists the steps needed to set up PowerCampus in Ethos Integration, and identifies which steps are required to support each of the mechanisms by which other applications get data from PowerCampus through Ethos Integration: by making proxy API requests to PowerCampus or subscribing to changes published by PowerCampus

Step	Proxy API requests	Publish/subscribe
Prepare for Ethos Integration with PowerCampus	X	X
Install supporting PowerCampus software	X	X
Set up PowerCampus in Ethos Integration	X	X
Create PowerCampus users for Proxy API requests	X	X
Set up PowerCampus mapping	X	X

Prepare for Ethos Integration with PowerCampus

Perform these steps before beginning the installation and the setup process.

Learn about Ethos Integration

Use these resources to gain a general understanding of how to integrate PowerCampus with other applications using Ethos Integration.

Resource	Description
About Ellucian Ethos Platform	Documentation describing Ellucian Ethos Platform.
Ellucian Ethos Platform	Videos covering the Ellucian Ethos Platform and Ethos Integration.
About Ellucian Ethos Integration	Documentation describing Ethos Integration fundamentals.

Install supporting PowerCampus software

Before setting up Ethos Integration with PowerCampus, install the supporting software listed here.

Install or upgrade your PowerCampus database to 9.2.1

Before you connect PowerCampus to Ethos Integration, create a new PowerCampus database or upgrade your current PowerCampus database 9.0.0 or later to 9.2.1. For more information, see "Install or Upgrade your PowerCampus Database" in the *PowerCampus Install Guide*.

Install or upgrade your PowerCampus application to 9.2.1

For more information, see "Install or Upgrade PowerCampus application" in the *PowerCampus Install Guide*.

Install or upgrade your PowerCampus Identity database to 9.2.1

For more information on the Identity database installation, see "Install PowerCampus Identity database" in the *PowerCampus Self-Service Install Guide*.

If you have already installed a PowerCampus Identity database, then see "Upgrade PowerCampus Identity database" in the *PowerCampus Self-Service Upgrade Guide* to upgrade to 9.2.1.

Install or upgrade PowerCampus Service Bus to 9.2.1

Use PowerCampus Service Bus to transfer information between PowerCampus 9.2.1 and other applications. For more information, see "Install PowerCampus Service Bus" in the *PowerCampus Install Guide*.

Install PowerCampus Ethos API

Install PowerCampus Ethos API. For more information, see "Install PowerCampus Ethos API" in the *PowerCampus Self-Service Install Guide*.

The Ethos API APIs allow Ethos API applications to retrieve information from PowerCampus.

Install PowerCampus Web Administration

Install PowerCampus Web Administration to map the Code table values to Ethos values. To allow access to the application, set the Web Administration URL in PowerCampus. See "PowerCampus Web Administration" in the *PowerCampus Web Administration Install Guide*.

Install PowerCampus User Management

The User Management application allows you to manage users, roles, and to assign permissions for Ethos API. For more information, see "Install PowerCampus User Management" in the *PowerCampus Self-Service Install guide*.

Set up PowerCampus in Ethos Integration

In Ethos Integration, create the Ethos application for PowerCampus and add the resources for which PowerCampus is authoritative.

Create the Ethos Integration application user for PowerCampus

Create a user in PowerCampus User Management and assign permissions to allow the user to access PowerCampus resources in Ethos integration.

Procedure

1. Create a user for Ethos Integration in **PowerCampus > User Management > Ethos API**
2. Create a role for the new user. Then, under **Claims**, make sure you select the **Resources API**.
3. Check the **Get** claim.

For more information, see "PowerCampus Ethos API" in the *PowerCampus Self-Service Administrator Guide*.

Create the application in Ethos Integration for PowerCampus

The Ethos Integration application records contain basic information about PowerCampus, including the location of the PowerCampus APIs, the resources for which PowerCampus is the authoritative source, and the API key.

About this task

Perform this procedure to create one application for the PowerCampus authoritative source application in Ethos Integration.

Procedure

1. On the Ethos Integration header bar, click the gear button, then select the environment where you want to perform this procedure.
When you log into Ethos Integration for the first time, the **Enhance Your Experience** page displays. Decline or allow Ellucian to enable cookies to track your usage in Ethos Integration using Google Analytics.
2. In the Ethos Integration header bar, click **Applications**.
3. In the **Applications** page, on the **Create New App** section, click **Manually**.

4. In the **Add Application** dialog box, create your application by clicking **Continue**.

Warning! Do not select any of the available options.

Result: Ethos Integration displays the Add Application wizard.

5. On the **Application Details** page of the wizard, enter the information described below and then click **Next**.

Field	Entry
Application name	<p>Enter a unique name for this application.</p> <p>Make sure that the name uniquely identifies this application. When you need to select an application elsewhere in the Ethos Integration user interface, you will use the name to select the correct application.</p> <p>Examples: <code>PowerCampus Integration API</code></p>
Description	(Optional) Enter a description of this application.

6. Click **Skip**.
PowerCampus does not subscribe to changes published by other Ethos applications.
7. Click **View Application** if you are ready to configure application-specific settings, or click **Back to Applications** if you want to just create the application now and configure settings later.

Set up Ethos Integration API key in the subscriber

Enable the messaging between the authoritative source application created in Ethos Integration and PowerCampus through Service Bus.

Procedure

1. In the Ethos Integration header bar, click **Applications**.
2. In the **Applications** page, locate and click the **PowerCampus** application name.
3. In the **API Keys** tab, select the **Copy** button to copy the API key of the PowerCampus application.
4. Paste this API key in the `Message.config` of Service Bus.
For more information, see "Configure Subscriber for Ethos Integration" in the *PowerCampus Install Guide*.

Auto-configure resources that are owned by PowerCampus

Procedure

1. On the Ethos Integration header bar, click the gear button, and then select the environment where you want to perform this procedure.
When you log into Ethos Integration for the first time, the **Enhance Your Experience** page displays. Decline or allow Ellucian to enable cookies to track your usage in Ethos Integration using Google Analytics.
2. On the Ethos Integration header bar, click **Applications**.
3. On the **Applications** page, locate and click the PowerCampus application name.
4. On the **Application Overview** page, click the **Owned Resources** tab.
Result: Major versions of the resources display. An asterisk displays in the Major Versions column if a resource is deprecated.
5. In the **Authentication Type** field, accept the default of **Basic Authentication**.
PowerCampus uses basic authentication (username and password) to authenticate proxy API requests from other applications.
6. Enter the Base URI for the PowerCampus Ethos API website then click **Save**.

Field	Entry
BaseURI	Enter the base URI of the PowerCampus Ethos API website, in the following form: https://<hostname>:<port>/EthosAPI/api where <hostname> is the name of the web server hosting the PowerCampus Ethos API, and <port> is the port number you specified when you created the website.

7. Click **Auto-configure resources**.
8. In the **Request Resources from Application** dialog box, enter your username and password. These credentials are the ones you set up in section "Create the Ethos Integration application user for PowerCampus", then click **Next**.
9. Click **Close**.

Update the PowerCampus owned resources after an Ethos API upgrade

Update the Ethos applications for PowerCampus with any changes to PowerCampus' owned resources resulting from a new version of the PowerCampus Ethos APIs.

About this task

When you originally created the Ethos applications for PowerCampus, you added the resources that PowerCampus owns. A new version of the PowerCampus Ethos APIs might include changes to the resources owned by PowerCampus. Perform the following procedure to update the Ethos applications for PowerCampus with any changes to PowerCampus owned resources.

Perform this procedure for each Ethos application that you created for PowerCampus.

Procedure

1. On the Ethos Integration header bar, click the gear button, and then select the environment where you want to perform this procedure
When you log into Ethos Integration for the first time, the **Enhance Your Experience** page displays. Decline or allow Ellucian to enable cookies to track your usage in Ethos Integration using Google Analytics.
2. On the Ethos Integration header bar, click **Applications**.
3. On the **Applications** page, locate and click the PowerCampus application name.
4. On the **Application Overview** page, click the **Owned Resources** tab.
Result: Major versions of the resources display. An asterisk displays in the Major Versions column if a resource is deprecated.
5. Click **Auto-Configure Resources**.
6. In the **Requests Resources from Application** dialog box, enter the username and password for PowerCampus account with access to the PowerCampus Ethos API.
7. Click **Next**.
The list of resources owned by PowerCampus is automatically updated to reflect changes in the new version of the APIs.
8. Click **Close**.

Create PowerCampus users for Proxy API requests

Create a user in your ERP to support proxy API requests from Ellucian applications

Create administrative users in PowerCampus and assign the appropriate API permissions, to allow those users to make proxy API calls to Ethos integration.

Use the same procedures to set up a user for each proxy application you create. Assign the user permissions to the Ethos API that corresponds to each application.

Create the API user

The Users option allows you to create and edit users, reset password, generate tokens, list the user's tokens, and delete accounts for PowerCampus Ethos API.

For more information on how to create users in Ethos API see "Users in Ethos API" in the *Self-Service Administrator Guide*.

Define the role for the API user

Assign a role to a user.

First, you need to create roles in Ethos API, for more information. see "Roles in Ethos API". Then, you can assign the role to a user, for more information, see "Edit Ethos API user account" in the *PowerCampus Self-Service Administrator Guide*.

Assign permissions to the API user role

The PowerCampus Ethos API provides some claims that you can map to a role. You can add claims or change the existing mapping to a role

To set up a user with access to ILP resources, assign the claims for the APIs located in [Resources for which ILP makes API requests](#)

To set up a user with access to Experience resources, assign the claims for the APIs located in [Data models for which Ellucian Experience makes API requests](#)

If the API requires **Read** permissions, in claims, select `Get` and `Get.id`

If the API requires **Update** permissions, in claims, select `Post` and `Put`

For more information about how to assign claims in Ethos API, see "Configure claim mapping to an Ethos API role" in the *PowerCampus Self-Service Administrator Guide*.

Set up PowerCampus mapping

Add mapping records allows to integrate PowerCampus values with Ethos enumerations.

Create mappings for the code values on each code table, for the application you want to integrate with.

Code Table name	Ethos API	ILP	Experience
Address type	address-types	X	X
Curriculum	academic-disciplines		X
Degree	academic-credentials		X
Email type	email-types	X	X
Institution type	educational-institutions	X	X
Person phone type	phone-types	X	X
Record type	persons	X	X
Release information	privacy-statuses		X
Stop list	person-hold-types		X

For more information about how to add ethos mappings, see "Configure Code values with Ethos mapping" in the *PowerCampus Web Administration Handbook*.