

# Adobe® Connect Pro Building Block

## Install Guide

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### Introduction

The Adobe® Connect Pro Building Block gives Blackboard® Learn Instructors, Teaching Assistants and Course Builders the ability to seamlessly incorporate Adobe Connect meetings into their Blackboard course offering and allows students to see upcoming Adobe Connect meetings.

This document explains how to install and configure the Adobe® Connect Pro Building Block for Blackboard® Learn 9.1.

### Requirements

- Adobe Connect Pro 7 or later
- Blackboard Learn version 9.1
- Administrative rights for Blackboard
- The Adobe Connect Pro Building Block (version 2.0.17 or later) (`connectpro-bb-as-x.x.x.war`)

### Overview

Installing and configuring the Adobe Connect Pro Building Block is a three-step process:

1. Configure the shared secret for Adobe Connect Pro.
2. Configure LDAP for Blackboard and Adobe Connect Pro. (Optional).
3. Install the Adobe Connect Pro Building Block in Blackboard.
4. Configure the building block settings.

### Configuring the Shared Secret for Adobe Connect Pro

The integration uses a shared secret to enable users in Blackboard to automatically log on to Adobe Connect Pro without entering their passwords. The shared secret must be configured in Adobe Connect Pro and in the building block. (Both must be set to the same value.)

1. Log on to the machine that hosts your Adobe Connect Pro server.
2. In the Adobe Connect Pro installation folder (for example, `c:\breeze`), open the file named `custom.ini`, or if it does not exist, create it.
3. Create a setting named `SHARED_SECRET_TRUSTED_LOGIN` and set the value to the shared secret you want to use. For example:

SHARED\_SECRET\_TRUSTED\_LOGIN=mysecret

4. Restart the Adobe Connect Pro service.

**NOTE:** You must restart the Adobe Connect Pro service whenever you change the shared secret for the change to take effect.

## Configuring LDAP (Optional)

### Configuring Adobe Connect Pro for LDAP

1. Click the Windows **Start** button and choose **Programs > Adobe Connect Server > Configure Adobe Connect Enterprise Server**
2. **Server.** The Application Management Console is launched in your web browser.
3. Click the **Directory Service Settings** tab.
4. Under *LDAP Settings*, enter the required information in each of the subtabs described in the following sections.

### Connection Settings

<i>LDAP Server URL</i>	The LDAP server host and port. For example: <code>http://ldap.example.org</code>
<i>LDAP Connection Authentication Method</i>	Simple or MD5
<i>LDAP Connection Username</i>	LDAP admin user name
<i>LDAP Connect Password</i>	LDAP admin user password

### Authentication Settings

<i>Enable LDAP Directory authentication</i>	Enable this if you want Adobe Connect Pro users to be authenticated against an LDAP directory.
<i>Enable Connect Pro fall-back on unsuccessful LDAP Directory authentication</i>	When enabled, Adobe Connect Pro will attempt to authenticate the user against its internal database if LDAP authentication fails. If you enable this option, you may also want to enable password synchronization from LDAP. To do this, go to <b>Synchronization Settings &gt; Policy Settings</b> and configure Password Setup Policy are required. Then, in the <b>Directory Service Settings</b> tab, click <b>Synchronization Actions</b> . Click <b>Synchronize</b> to import the LDAP records into the Adobe Connect Pro database with the settings mentioned above.

### Configuring Blackboard for LDAP

For more information on the authentication settings described in this section, see the *Blackboard Academic Suite Authentication Guide*.

Configure the following setting in bb-config.properties:

```
bbconfig.auth.type=ldap
```

Configure the following settings in authentication.properties:

```
auth.type.ldap.impl=blackboard.platform.security.authentication.LDAPAuthModule
auth.type.ldap.use_challenge=false
# depends on requirement:
auth.type.ldap.error_fallback_to_bb=true
# depends on requirement:
auth.type.ldap.user_not_found_fallback_to_bb=true
auth.type.ldap.base_search_fdn.1=OU=people,DC=xxx,DC=com
auth.type.ldap.server_url.1=ldap://server:389
auth.type.ldap.use_priv_user.1=true
auth.type.ldap.user_fdn.1=CN=manager,DC=xxxx,DC=com
auth.type.ldap.user_pwd.1=xxxxxx
auth.type.ldap.user_tag.1=xxxxxx
```

## Installing the Adobe Connect Pro Building Block

1. Log in to Blackboard as a System Administrator.
2. Click the **System Admin** tab.
3. Under *Building Blocks*, click **Building Blocks**.
4. Click **Installed Tools**.
5. Click **Upload Building Blocks**.
6. Browse to and select the Adobe Connect Pro Building Block war file (connectpro-bb-as-x.x.x.war).
7. Click **Submit** and then **OK**. When the upload is complete, the Building Blocks page is displayed.
8. In the list of Building Blocks, locate the name Adobe Connect Pro.
9. By default, the building block is inactive. Change the status to *Available* in both the *Availability* and *Course/Org* columns. Click **OK** when prompted to confirm.

## Configuring the Adobe Connect Pro Building Block Settings

In the *Building Blocks* page, click the Adobe Connect Pro Building Block's **Settings** button and configure the settings:

<i>Adobe Connect Pro server URL</i>	The URL of the Adobe Connect Pro server to be integrated with Blackboard.
<i>Shared secret</i>	You must set the shared secret to enable single sign-on between Blackboard and Adobe Connect Pro. The shared secret must match the shared secret value configured for Adobe Connect Pro
<i>Connection status</i>	This box displays the status of the connection to the Adobe Connect Pro server. If you change the server URL, you can click <b>Test Connection</b> to check that the specified URL points to a valid Adobe Connect Pro server.
<i>Automatically create</i>	Enable this option to create accounts automatically when creating meetings

<i>accounts in Adobe Connect Pro</i>	with participants who do not exist in Adobe Connect Pro. If enabled, <i>Admin Login</i> and <i>Admin Password</i> must be set. <b>Do not</b> enable this option if Adobe Connect Pro is already configured to create accounts upon successful LDAP Directory authentication.
<i>Administrator Login</i>	The administrator login for Adobe Connect Pro.
<i>Administrator Password</i>	The administrator password for Adobe Connect Pro.
<i>Blackboard is configured with LDAP</i>	Enable if Blackboard users are authenticated against LDAP.
<i>Mapping attribute in LDAP</i>	The LDAP attribute to which the Adobe Connect Pro/Blackboard username is mapped. For example, if <code>id=xxx</code> is an entry in the LDAP server and the tag in Blackboard's <code>authentication.properties</code> file is set to <code>auth.type.ldap.user_tag.1=id</code> , the mapping attribute should be set to <code>id</code> .
<i>Connect Pro is configured with LDAP</i>	Enable if Adobe Connect Pro users are authenticated against LDAP.
<i>Enable organization access</i>	To allow organizations to access the building block, enable this option and select the organizations.
<i>Show attendee login names in meeting attendee reports</i>	If you do not want login names to be displayed when users view meeting reports, you can disable this setting.
<i>Debug mode</i>	When this option is enabled, a log file named <code>custom/adobe-cp.log.txt</code> is updated every time the building block is accessed. This log file is located in Blackboard's <code>logs</code> directory and can be downloaded from the <b>System Logs</b> area of the Blackboard <b>System Admin</b> tab. This log provides additional information to help with troubleshooting issues with the Adobe Connect Pro Building Block.

Click **Submit** to apply the settings.

In the next page, you have the option to upload a user mapping file. The user mapping file maps Blackboard usernames to Adobe Connect login IDs. If your Blackboard users' usernames are the same as their Adobe Connect login IDs, the building block will map their accounts automatically and you do not need to upload a user mapping file. You can simply click **Finish**.

To upload a user mapping file, browse to the file (a csv or txt file) and click **Upload and Finish**. If the file is in the expected format, a successful upload message will appear when the upload is complete.

**Note:** The expected format of the user mapping file uploaded from the Building Block settings page is not the same as the format of the user mapping file stored in the Building Block's `config` directory, which does not contain the header line and uses three consecutive colons (`:::`) as the separator character instead of the comma.

## Adding the Adobe Connect Pro Tool to the Tools Panel

1. In the **System Admin** tab, under *Communities*, click **Tabs and Modules**.
2. Click **Tool Panel**.
3. Click **Add Tool**.
4. Enter a title and select *Adobe Connect Pro* from the *Tools* list.
5. Set *Available* to *Yes*.
6. Click **Submit**.

The Adobe Connect Pro tool is now available in the *Tools* panel.

## Adding the My Adobe Connect Meetings Module

**Note:** This option is only available if you have Community licensing.

1. In the **My Institution** tab, click **Add Module**.
2. Select **My Adobe Connect Meetings**.
3. Click **Submit**.

The My Adobe Connect Meetings module is now displayed in the **My Institution** tab. It allows the user to view their current and upcoming meetings.

## Troubleshooting

If you are experiencing problems with the building block, enable the debugging option in the Adobe Connect Pro Building Block settings. When debugging is enabled, another log is created to store additional information to help troubleshoot issues with the building block.

To view the log, log in to Blackboard as a system administrator and go to the **System Admin** tab. Under *Tools and Utilities*, click **Logs > System Logs**. In the list of logs, locate the file named `custom/adobe-cp.log`.