

# ClassPolicy Setup for Class Notebook Integration and Azure AD sign in for teachers

Rev date: 2019-09-02

## History

Date	Comment
2019-08-07	Added "supported account types" when Azure app is created
2019-09-02	Updated with recent Azure AD GUI

## Things you will need

- 1) Admin account to your Office 365 tenancy Azure AD
- 2) Admin account to your ClassPolicy district admin website

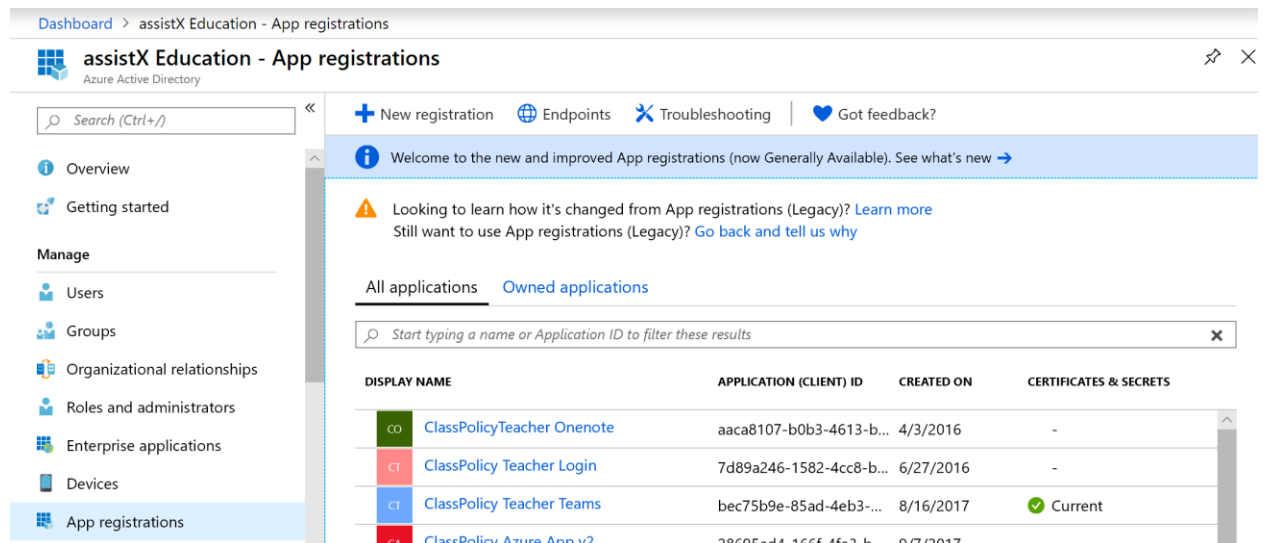
## Steps

The following pages are a condensed and modified version of the Microsoft document (<https://msdn.microsoft.com/office/office365/howto/add-common-consent-manually>) with just the information needed to give ClassPolicy app access to Office365 APIs for Class Notebook and Microsoft Teams integration. As processes and documentation constantly change, if you come across discrepancies, please refer to the Microsoft document for a full explanation and complete instructions. Please also notify us of the changes at [support@assistx.me](mailto:support@assistx.me) so we can update this document to ensure that it is accurate.

## Register ClassPolicy Azure AD app with the Azure Management Portal

The following instructions are for granting ClassPolicy teacher app access to Class Notebooks and Microsoft Teams through ClassPolicy Azure AD app.

1. Sign into the [Azure Management Portal](#), using your Office 365 business admin account credentials.
2. Click the **Azure Active Directory** node in the left column and select the directory linked to your Office 365 subscription.
3. Select the **App registrations** tab and then **New registration** at the top of the page.



Dashboard > assistX Education - App registrations

assistX Education - App registrations

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App registrations

+ New registration | Endpoints | Troubleshooting | Got feedback?

Welcome to the new and improved App registrations (now Generally Available). See what's new →

Looking to learn how it's changed from App registrations (Legacy)? [Learn more](#)  
Still want to use App registrations (Legacy)? [Go back and tell us why](#)

All applications | Owned applications

Start typing a name or Application ID to filter these results

DISPLAY NAME	APPLICATION (CLIENT) ID	CREATED ON	CERTIFICATES & SECRETS
ClassPolicyTeacher Onenote	aaca8107-b0b3-4613-b...	4/3/2016	-
ClassPolicy Teacher Login	7d89a246-1582-4cc8-b...	6/27/2016	-
ClassPolicy Teacher Teams	bec75b9e-85ad-4eb3-...	8/16/2017	Current
ClassPolicy Azure App v2	28695ed4-166f-4fe3-h	9/7/2017	-

4. Enter "ClassPolicy Azure App v2" for the **Name** for your app and select **Native** as its Application type. For "Supported account types", select "Accounts in any organizational directory (Any Azure AD directory – Multitenant)".

Dashboard > assistX Education - App registrations > Register an application

## Register an application

**\* Name**  
The user-facing display name for this application (this can be changed later).

ClassPolicy Azure App v2 ✓

**Supported account types**  
Who can use this application or access this API?

☐ Accounts in this organizational directory only (assistX Education only - Single tenant)  
☒ Accounts in any organizational directory (Any Azure AD directory - Multitenant)  
☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)

[Help me choose...](#)

By proceeding, you agree to the [Microsoft Platform Policies](#)

**Register**

- After the app has been registered successfully, click on “Add a Redirect URI”. Then choose “Public client (mobile & desktop)” for **Type**, and for **REDIRECT URI**, enter “ms-app://s-1-15-2-3816429394-123240985-688901982-2388679701-4192685877-4097269102-3080857829/”. Then click **Save**.

Dashboard > assistX Education - App registrations > ClassPolicy Azure App v2 - Authentication

## ClassPolicy Azure App v2 - Authentication

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Save Discard Try out the new experience Got feedback?

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Certificates & secrets  
API permissions

### Redirect URIs

The URIs that we will accept as destinations when returning authentication responses (tokens) after successfully authenticating users. Also referred to as reply URLs.  
[Learn more about adding support for web, mobile and desktop clients](#)

TYPE	REDIRECT URI
Public client (mobile & desktop)	ms-app://s-1-15-2-3816429394-123240985-688901982-2388679701 ✓
Web	e.g. https://myapp.com/auth

If it complains about invalid redirect URI, it might be something to do with copy & paste of the above URI having some invisible control characters. To work around this, open Notepad app, copy & paste into Notepad first, then copy & paste into Redirect URI field again.

- Click the app that you have just registered. Your screen should look like the following:

Dashboard > assistX Education - App registrations > ClassPolicy Azure App v2

## ClassPolicy Azure App v2

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- API permissions
- Expose an API
- Owners
- Roles and administrators (Pr...
- Manifest

Delete Endpoints

Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Legacy)? →

Display name	ClassPolicy Azure App v2	Supported account types	Multiple organizations
Application (client) ID	5ef7716d-e0df-4912-b6f8-2d4425a060aa	Redirect URIs	0 web, 1 public client
Directory (tenant) ID	d37a8931-8aa1-4464-8577-7e12f054cc30	Application ID URI	Add an Application ID URI
Object ID	255585fe-7834-46cc-a974-f49c6df8c452	Managed application in local directory	ClassPolicy Azure App v2

Call APIs

Documentation

- Microsoft identity platform
- Authentication scenarios
- Authentication libraries
- Code samples
- Microsoft Graph

ClassPolicy Azure App is now registered with Azure AD. You are now ready to specify the Office 365 API permissions that ClassPolicy requires.

### Specify the Office 365 API permissions ClassPolicy AD Azure app requires

There are two sets of API permissions that ClassPolicy Azure app needs to access:

- Onenote API to access Class notebook list, to create Class notebook, and to change onenote collaboration space permissions.
- Graph API to list all sections belonged to a teacher with Microsoft Teams.

### Adding Onenote API Permissions for Class Notebook Integration

You will now need to specify exactly which permissions ClassPolicy app requires of the Office 365 APIs for OneNote access. To do so, first select the OneNote API from your available Office 365 APIs. Next, specify the particular permissions from the OneNote API. Please refer to [Office 365 application manifest and permission details](#) for a complete listing of Office 365 API permissions and further details.

1. In the Azure Management Portal, select ClassPolicy Azure app, from the left side pane, click **API permissions**.

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## ClassPolicy Azure App v2 - API permissions

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  - Certificates & secrets
  - API permissions**
  - Expose an API
  - Owners

### API permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs.

[+ Add a permission](#)

API / PERMISSIONS NAME	TYPE	DESCRIPTION	ADMIN CONSENT...	STATUS
▼ Microsoft Graph (1)				
<a href="#">User.Read</a>	Delegated	Sign in and read user profile	-	

These are the permissions that this application requests statically. You may also request user consent-able permissions dynamically through code. [See best practices for requesting permissions](#)

- Click “+ Add a permission” and select OneNote from the API list. Then choose “Delegated permissions”.
- Under **Notes**, specify the permissions ClassPolicy Azure app needs. Please select the 6 permissions checked as shown below. Then click **Add permissions**.

Dashboard > ClassPolicy Azure App v2 - API permissions

## ClassPolicy Azure App v2 - API permissions

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  - Roles and administrators (1)
  - Manifest
- Support + Troubleshooting
  - Troubleshooting

### Request API permissions

< All APIs

Select permissions [expand all](#)

Type to search

PERMISSION	ADMIN CONSENT REQUIRED
▼ Notes (6)	
<input checked="" type="checkbox"/> <b>Notes.Create</b> Create pages in OneNote notebooks ⓘ	-
<input checked="" type="checkbox"/> <b>Notes.Read</b> View OneNote notebooks ⓘ	-
<input checked="" type="checkbox"/> <b>Notes.Read.All</b> View OneNote notebooks in your organization ⓘ	-
<input checked="" type="checkbox"/> <b>Notes.ReadWrite</b> View and modify OneNote notebooks ⓘ	-
<input checked="" type="checkbox"/> <b>Notes.ReadWrite.All</b> View and modify OneNote notebooks in your organization ⓘ	-
<input checked="" type="checkbox"/> <b>Notes.ReadWrite.CreatedByApp</b> Application-only OneNote notebook access ⓘ	-

[Add permissions](#) [Discard](#)

## Adding Graph Permissions for Microsoft Teams integration

Next, add permissions for Microsoft Teams integration. To do so, select “Microsoft Graph” API from **API permissions**, then choose “Delegated permissions”.

Under **Group** section, select “Group.Read.All”. Under User section, select “User.Read.All”. Then **Add permissions**.

Since the above permissions require admin privilege, most teachers won't have these permissions by default. To grant permission to all teachers in the organization, follow the below steps. From **API permissions**, scroll to the bottom of the page. Click on “Grant admin consent for”. Then click on **Yes** button.

Dashboard > assistX Education - App registrations > ClassPolicy Azure App v2 - API permissions

### ClassPolicy Azure App v2 - API permissions

Do you want to grant consent for the requested permissions for all accounts in assistX Education? This will update any existing admin consent records this application already has to match what is listed below.

Notes.ReadWrite	Delegated	View and modify OneNote...	-	✓	Granted for assistX Educ...
Notes.ReadWrite.All	Delegated	View and modify OneNote...	-	✓	Granted for assistX Educ...
Notes.ReadWrite.Cre	Delegated	Application-only OneNote...	-	✓	Granted for assistX Educ...

These are the permissions that this application requests statically. You may also request user consent-able permissions dynamically through code. [See best practices for requesting permissions](#)

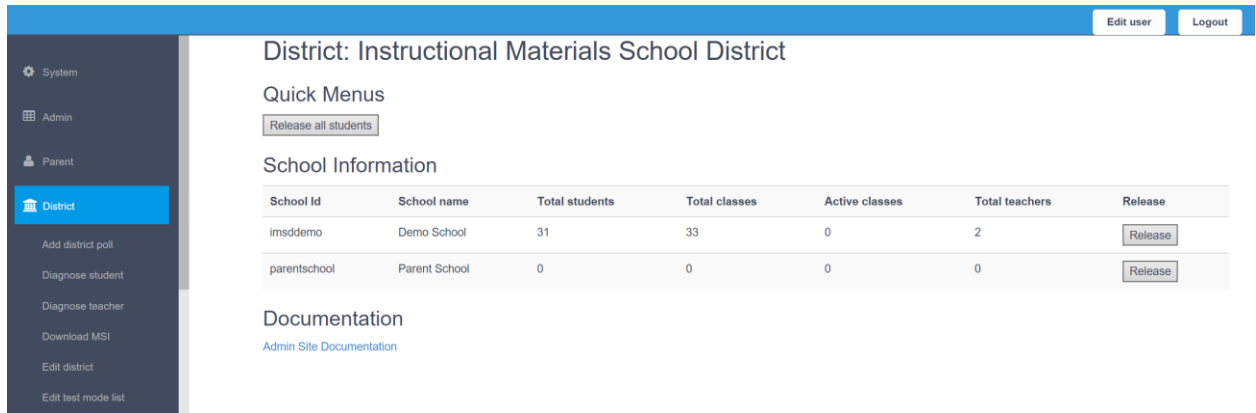
#### Grant consent

As an administrator, you can grant consent on behalf of all users in this directory. Granting admin consent for all users means that end users will not be shown a consent screen when using the application.

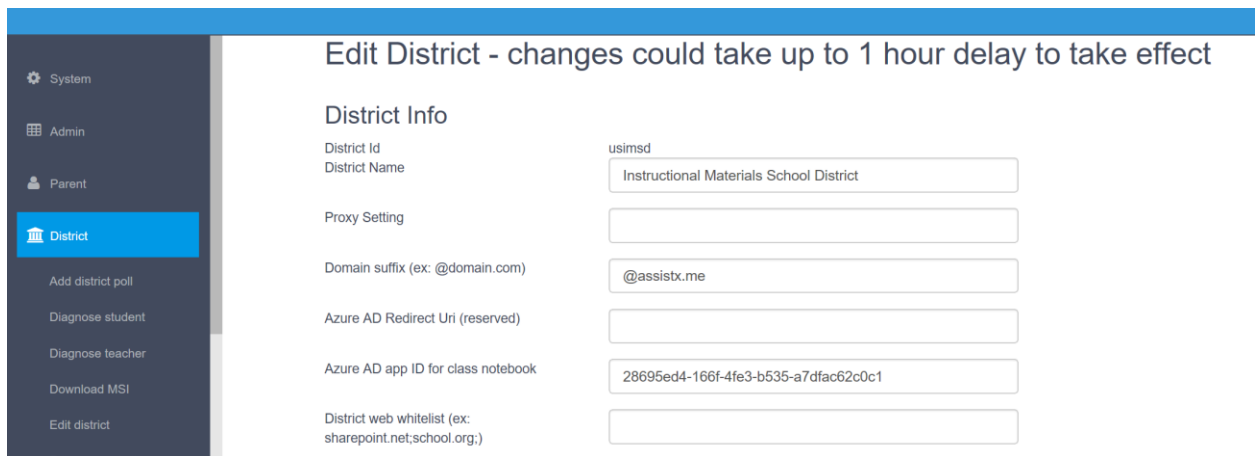
## Configure ClassPolicy District Admin Setting

Your ClassPolicy Azure app is now registered and configured with necessary permissions. The next step is to configure your ClassPolicy district setting to connect ClassPolicy teacher app to the ClassPolicy Azure app that you have created by following the steps below.

1. Login to the ClassPolicy Admin with your administrator credentials.
2. From the left navigation select “District” and then “Edit district” as shown in the image below.



3. In the “Domain Suffix” text box, enter the domain suffix of your student’s Office 365 accounts. The suffix should start with an @ symbol added to a domain name.
4. Copy the Application ID from the Azure Management Portal and paste it into the “Azure AD app ID for Class Notebook” text box.
5. Please refer to the image of the ClassPolicy Admin below with a sample Domain Suffix and Azure AD app ID for Class Notebook added.



6. If you want for teachers to sign in with their Azure AD account, you may change “Teacher sign in method” to “AAD\_SIGNIN”.

Cloud based screen monitor auto refresh interval Manual Refresh ▼

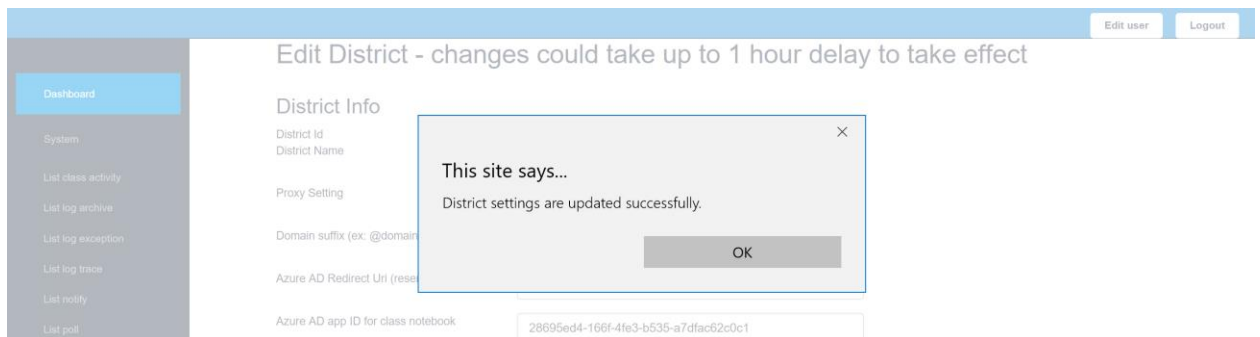
Teacher sign in method : REGULAR\_SIGNIN ▼

MSI setting: StudentIdEnv REGULAR\_SIGNIN ▼

Screen audit interval in m AAD\_SIGNIN

Student off class polling interval in sec 6 sec ▼

7. Scroll down and click on the “Update” button to save changes. The confirmation dialog will pop up as below:



The screenshot shows the 'Edit District' page with a sidebar on the left containing links like 'Dashboard', 'System', 'List class activity', etc. The main content area is titled 'Edit District - changes could take up to 1 hour delay to take effect'. Below this, there's a 'District Info' section with fields for 'District Id', 'District Name', 'Proxy Setting', 'Domain suffix (ex: @domain)', 'Azure AD Redirect Uri (reset)', and 'Azure AD app ID for class notebook'. A confirmation dialog box is overlaid on the page, displaying the message 'This site says... District settings are updated successfully.' with an 'OK' button.

That completes the setup process to enable Class Notebook orchestration with ClassPolicy. If you have any issues, please contact us at [support@assistx.me](mailto:support@assistx.me) and we will be happy to assist you.