

How to setup Azure AD

Document revision 1.5

Description

Following the standards of IT, TEOS can synchronize with Azure AD (Cloud version of Microsoft Active Directory) and at the same time use the App authentication (GraphAPI) to be able to add room resource without service accounts.

Requirements

- Manage for TEOS server installed (from Version 3.2 at least)
- Manage for TEOS need to access Azure AD
- For MFA support make sure MFA is configured on user level within Azure
- Access to the Manage for TEOS webpage interface with admin rights.
- Domain name of the server cannot be different.

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1. Why synching TEOS with Azure AD

The Azure Active Directory (Azure AD) enterprise identity service provides single sign-on and multi-factor authentication to help protect your users from 99.9 percent of cybersecurity attacks. This platform can be



used also for systems synchronizations (such as TEOS) to get the user verification for this single point which is Azure AD. Developer tools make it easy to integrate identity into your apps and services.



What is Azure AD?

Azure Active Directory is Microsoft's multi-tenant, cloud-based identity and access management service. It's the digital infrastructure that allows your employees to sign in and access external resources held in Office 365 and an ever-growing list of other SaaS applications, as well as those held on a corporate network or intranet. Azure AD's strength lies in the flexibility afforded to it by being entirely cloud-based. This means that it can either act as an organisation's only directory, or it can sync with an on-premises directory via Azure AD Connect.

Either way, it enables both on-premises and cloud-based users to access the same apps and resources, simultaneously benefitting from features such as single sign-on (SSO), multi-factor authentication (MFA), conditional access and more.

More importantly, it provides a single place from which to manage your identity, security and compliance controls across your entire IT estate.

What does Azure AD do?

Azure AD provides different benefits depending on what you're using it for.

For IT admins, it allows complete control over access to applications and resources utilising security controls like MFA and conditional access. They can also use Azure AD's built-in governance controls to apply automated lifecycle management and privileged access limitations.

In addition to this, Azure AD also provides admins with the ability to automate provisioning between Windows Server Active Directory and cloud apps like Office 365.

For developers, Azure AD can be used as a standards-based approach to enabling features like SSO and for personalising the app experiences using existing organisation data through APIs.



If you're a user or employee, Azure AD means quick and easy access to work resources, on a multitude of devices, from almost anywhere on the planet.

How does it work?

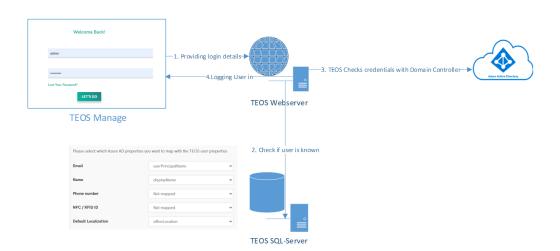
Azure AD, as the name suggests, is a directory – a container for your usernames, credentials and access rights (typically to information-based resources).

Cloud-only or hybrid

Azure AD can be operated in 'cloud-only' mode, allowing your users to sign into their Windows PCs using the cloud directory service. Alternatively, if you, like many organisations, are still tied to on-premise legacy infrastructure, Azure AD can use your local Active Directory as a master for account data and operate in a variety of hybrid modes.

Azure AD has been designed to enable easy integration with many of today's popular SaaS applications, enabling users to either single sign-on to applications directly or discover and launch them from a portal, such as Office 365 or the Azure AD access panel.





2. Azure AD (for TEOS Cloud or on-premises)

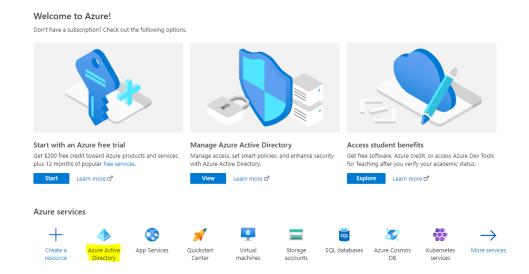
2.1 Configure your Azure Environment

You will need to go to https://portal.azure.com to start the configuration of the TEOS application in your Tenant.

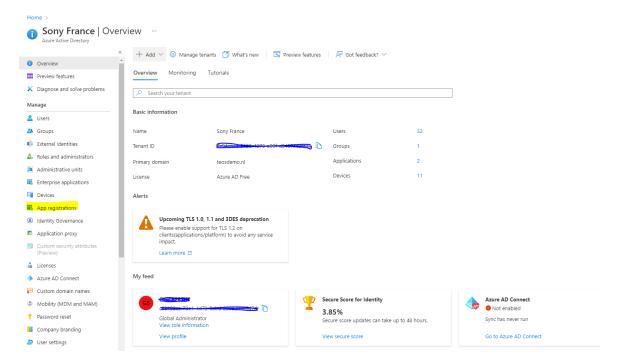


Sign-in with admin rights to be able to create applications and be able to consent permissions.

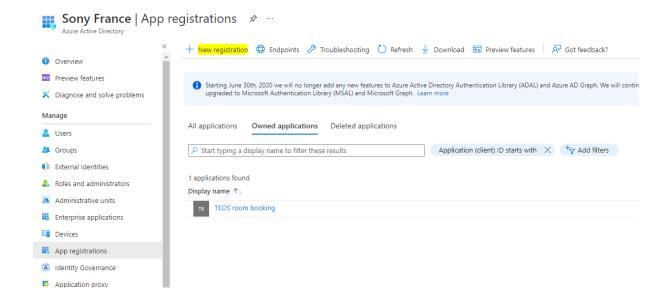
1) When logged in into azure portal, go to Azure Active Directory



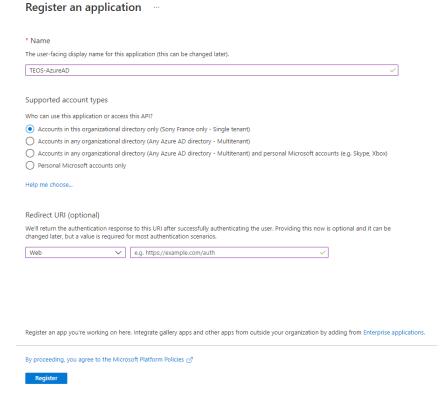
2) Go to the left column and click on app registrations to be able to create you TEOS application



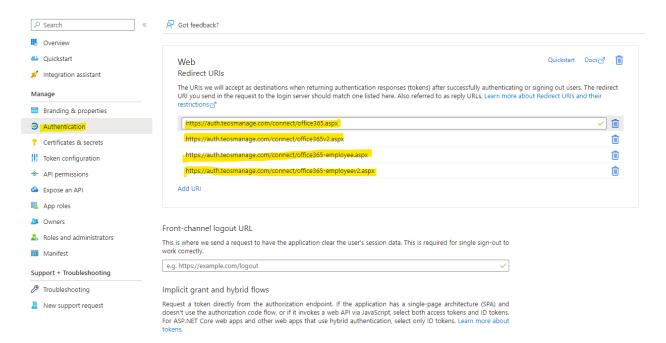
3) Under app registrations press "New registration" and define a name for the App.



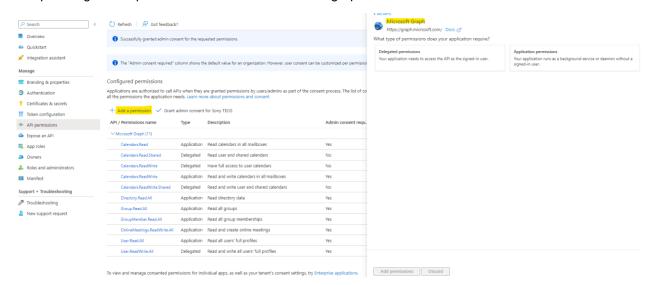
4) Define a name that you can easily recognize for a region or a country or where you will use the rooms/users. For Azure AD synchronization only, no need to add a redirect URI, the redirect URI is used mainly for Office365 rooms management and for our TEOS Employee App and Mobile App



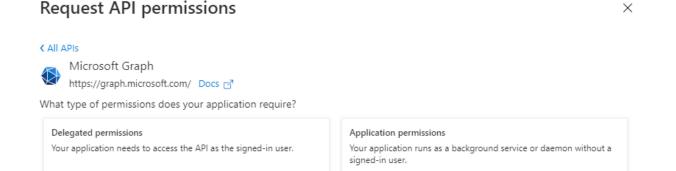
URL redirect for TEOS Manage (room booking): https://auth.teosmanage.com/connect/office365.aspx
URL redirect for Employee App: https://auth.teosmanage.com/connect/office365-employee.aspx
URL redirect for Employee App: https://auth.teosmanage.com/connect/office365-employeev2.aspx
You can go to authentication menu under the left column to review the redirect URIs



5) When you pressed to register, go then to API permissions, and start to add permissions by pressing "add a permission" and select Microsoft graph

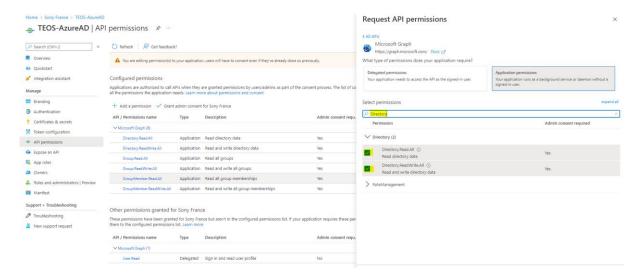


Select if your permission is an application type permission or a delegated permission (in Azure AD it is only Application permissions)



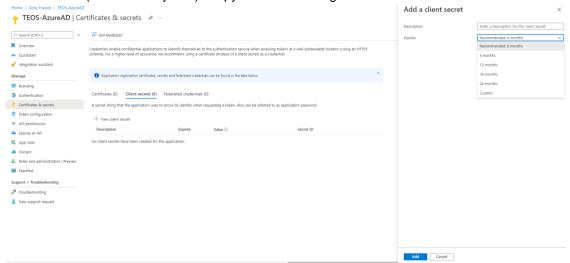
You can then search by the name of the requested permission and select the checkbox to add it



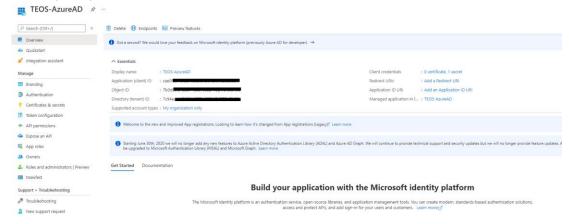


You can refer to section 2.2 and 2.3 to check what are the permissions needed.

6) After adding all the permission, you need to get a Client Secret that we will used by TEOS together with the Tenant ID and Client ID to be able to get the data. For that go to "Certificates & secrets" which on the left column. You can define under this section the expiration tie for the Client Secret (maximum 2 years). Copy then the value generated.



7) You can you then to your overview the find again the Client ID, Tenant ID on top of the Client Secret (value).

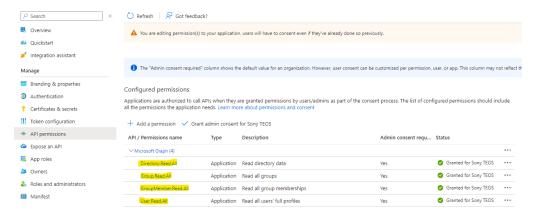




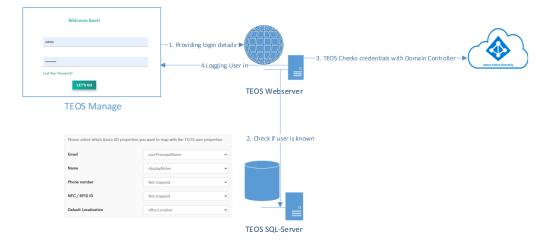
2.2 Permissions needed for Azure Active Directory

To get TEOS working with Azure AD you will need the following permissions:

Permission name	Туре	Description
Directory.Read.All	Application	Allows the app to read data in your organization's directory.
Group.Read.All	Application	Allows the app to list groups, and to read their properties and all group memberships on your behalf. Also allows the app to read calendar, conversations, files, and other group content for all groups you can access.
GroupMember.Read.All	Application	Allows the app to list groups, read basic group properties and read membership of all your groups.
User.read.All	Application	Sign in and read user profile



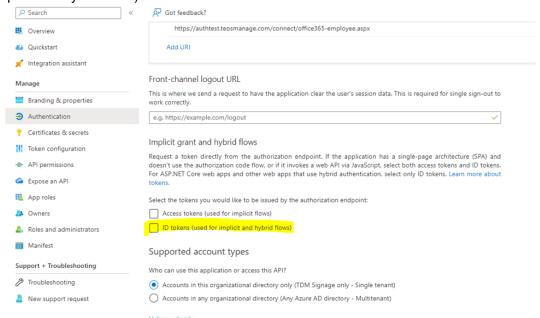
With those permissions, TEOS (when configured) will be able to get the user emails and names as minimum from user accounts and will be able when password verification is needed to verify against Azure AD if the user exists and if his password or Card ID is correct.



2.3 Configuration for MFA support with TEOS

For a user to login not only with Azure AD account but also using MFA, a configuration need to be done in Azure and points need to be verified:

- 1) Make sure the configuration of the application with the permissions requested in point 2.2 are applied
- 2) Under authentication, add a new redirect URL with https://tenantname.teoscloud.com/Account/LoginOpenId (make sure you put your tenant name for CLOUD and on premise just replace the tenantname.teoscloud.com by your server name).
- On top of the redirect URL to add under authentication, enable the option "ID tokens (used for implicit and hybrid flows)"



4) Under the application manifest tab, please ensure that oauth2 configuration is as configured below:

```
"marketing": null
                                     20
   Certificates & secrets
                                    21
                                    22
                                              "keyCredentials": [],
Token configuration
                                    23
                                              "knownClientApplications": [],
                                              "logoUrl": null,
                                    24
   API permissions
                                    25
                                              "logoutUrl": null,
                                              "name": "TEOS-AzureAD",
                                    26
Expose an API
                                              "notes": null,
                                    27
App roles
                                              "oauth2AllowIdTokenImplicitFlow": true,
                                    28
                                              "oauth2AllowImplicitFlow": false,
                                    29
Owners
                                              "oauth2Permissions": [],
                                    30
                                    31
                                              "oauth2RequirePostResponse": false,
Roles and administrators
                                              "optionalClaims": null,
                                    32
Manifest
                                              "orgRestrictions": [],
                                    33
                                    34
                                               "parentalControlSettings": {
Support + Troubleshooting
                                                  "countriesBlockedForMinors": [],
                                    35
                                                   "legalAgeGroupRule": "Allow"
                                    36
Troubleshooting
                                    37
                                               "passwordCredentials": [
                                    38
New support request
```

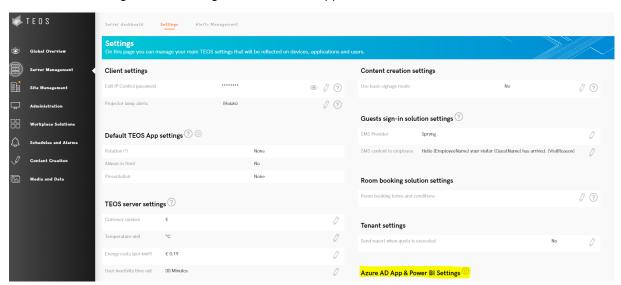
2.4 Sync TEOS with Azure AD User and App

Make sure TEOS Manage server can reach the following URLs in internet (port 443):

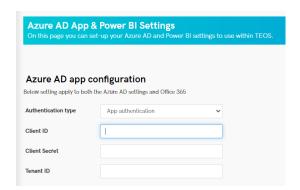
- Portal.azure.com
- outlook.office365.com
- login.microsoftonline.com
- Auth.teosmanage.com
- Graph.microsoft.com

You can do a telnet to the following URL to make sure they are accessible and open from the firewall.

Go to server management > settings and Azure AD App & Power BI



For the app usage, select under authentication "App Authentication". Insert then the Client ID, Tenant ID and secret code value of the third-party account you created for TEOS.



If you get an error in the synchronization, please go to your folders C:\\TEOS Manage > www > Backbone > web.config and make sure you have the correct url.

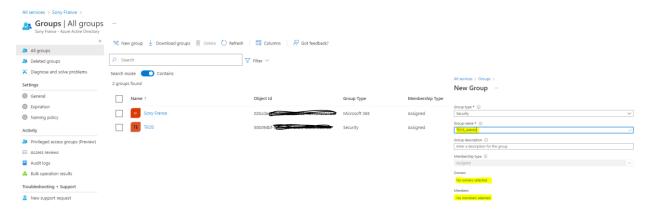
<add key="AllowSocialMediaDomain" value="https://auth.teosmanage.com" />

2.5 Add users from Azure AD to TEOS

2.5.1 Configuration in Azure AD

Go to Azure AD and Groups, you can create a new group which will get the role defined in TEOS (for example a group which will be administrator, another one which can be dedicated for content creation or even for resources right accesses)





When the group is created click on "no members selected" for you to be able to add users to the group

2.5.2 Configuration in TEOS

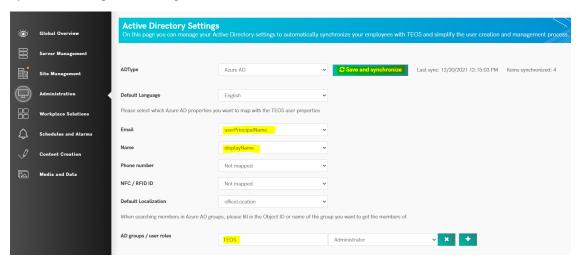
Go to Administration > Active Directory Settings

Select the AD Type to Azure AD. Select then the default language. You can then select the field that TEOS will be able to save in his database from user profiles.

The required ones are Email and name, the other properties are optional depending on your usage (phone number, NFC/RFID ID, Default Localization). You can map the following properties to the TEOS user properties.



You can finalize by linking the user group with TEOS to define the different roles, click save and synchronize to get the configuration done.



You can go then go to Administration > Users and you will see your synchronized users.

2.6 Recap of all premissions which can be required for TEOS

Permission name (Graph API)	Туре	Description
Calendars.Read	Application	For Booking panels: read/display the booking into the booking panel
Calendars.ReadWrite	Application	For Booking panels: allow the booking from the booking panel on the room resource calendar
User.read.all	Application	For Booking panels: Required to localize the email address of the room calendar resources into TEOS
Calendars.ReadWrite	Delegated	For the user booking App: In order to be able from the web application/ mobile application of TEOS, user will need to login with his O365 calendar account in the web application and mobile in order to see his spaces booking done in outlook into the applications. This application is focusing into the space using together with O365 booking style
Calendars.ReadWrite.Shared	Delegated	For the user booking Application and web portal, the application needs to be able to get room calendars information's in order to filter accordingly the availabilities to the user application
User.readwrite.all	Delegated	For the user booking Application and web application, this permission will allow the user to login within the application only and allow him also to write on his O365 calendar using his user name. No other usage is done with this permission
Directory.read.all	Application	Tool User management: For the possibility to synchronize users with the tool and reading the Group ID/ Group name identified in the tool. This to automatically define the groups of users who will use the tool and to use the Azure AD authentication
Group.read.all	Application	Tool User management: For the possibility to synchronize users with the tool and reading the Group ID/ Group name identified in the tool. This to automatically define the groups of users who will use the tool and to use the Azure AD authentication
GroupMember.read.all	Application	Tool User management: For the possibility to synchronize users with the tool and reading the Group ID/ Group name identified in the tool. This to automatically define the groups of users who will use the tool and to use the Azure AD authentication
User.read.all	Application	Tool User management: For the possibility to synchronize users with the tool and reading the Group ID/ Group name identified in the tool. This to automatically define the groups of users who will use the tool and to use the Azure AD authentication



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