How to configure Active directory
Document revision 1.1

Description

Following the standards of IT, TEOS can synchronize with Microsoft Active Directory in order to get user details for the different workflows available.

Requirements

- Manage for TEOS server installed (from Version 2.0 at least)
- Manage for TEOS need to access Active Directory with admin privileges
- Access to the Manage for TEOS webpage interface with admin rights
- Domain name of the server cannot be different

Contents

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1.   Why synching TEOS with AD

Active Directory (AD) is a Microsoft product that consists of several services that run on Windows Server to manage permissions and access to networked resources.

What is LDAP?

LDAP (Lightweight Directory Access Protocol) is an open and cross platform protocol used for directory services authentication.

LDAP provides the communication language that applications use to communicate with other directory services servers. Directory services store the users, passwords, and computer accounts, and share that information with other entities on the network.

What is Active Directory?

Active Directory is a directory services implementation that provides all sorts of functionality like authentication, group and user management, policy administration and more.

Active Directory (AD) supports both Kerberos and LDAP – Microsoft AD is by far the most common directory services system in use today. AD provides Single-SignOn (SSO) and works well in the office and over VPN. AD and Kerberos are not cross platform, which is one of the reasons companies are implementing access management software to manage logins from many different devices and platforms in a single place. AD does support LDAP, which means it can still be part of your overall access management scheme.

Active Directory is just one example of a directory service that supports LDAP. There are other flavors, too: Red Hat Directory Service, OpenLDAP, Apache Directory Server, and more.

LDAP vs. Active Directory

LDAP is a way of speaking to Active Directory.

LDAP is a protocol that many different directory services and access management solutions can understand. The relationship between AD and LDAP is much like the relationship between Apache and HTTP:

- HTTP is a web protocol.
- Apache is a web server that uses the HTTP protocol.
- LDAP is a directory services protocol.
- Active Directory is a directory server that uses the LDAP protocol.

Occasionally you'll hear someone say, "We don't have Active Directory, but we have LDAP." What they probably mean is that they have another product, such as OpenLDAP, which is an LDAP server. It's kind of like someone saying, "We have HTTP" when they really meant "We have an Apache web server."

With TEOS the benefit of synchronizing with AD directory will be with the user management. In fact if you want your users to authenticate within TEOS Platform, or under the room booking system with an RFID or just with their name, or if you want to get all the users from a central server for Reception for TEOS (for both workflows with search and with the 4 digit pin code), Active Directory will be a good option.

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TEOS Book - Workflow with room viewing
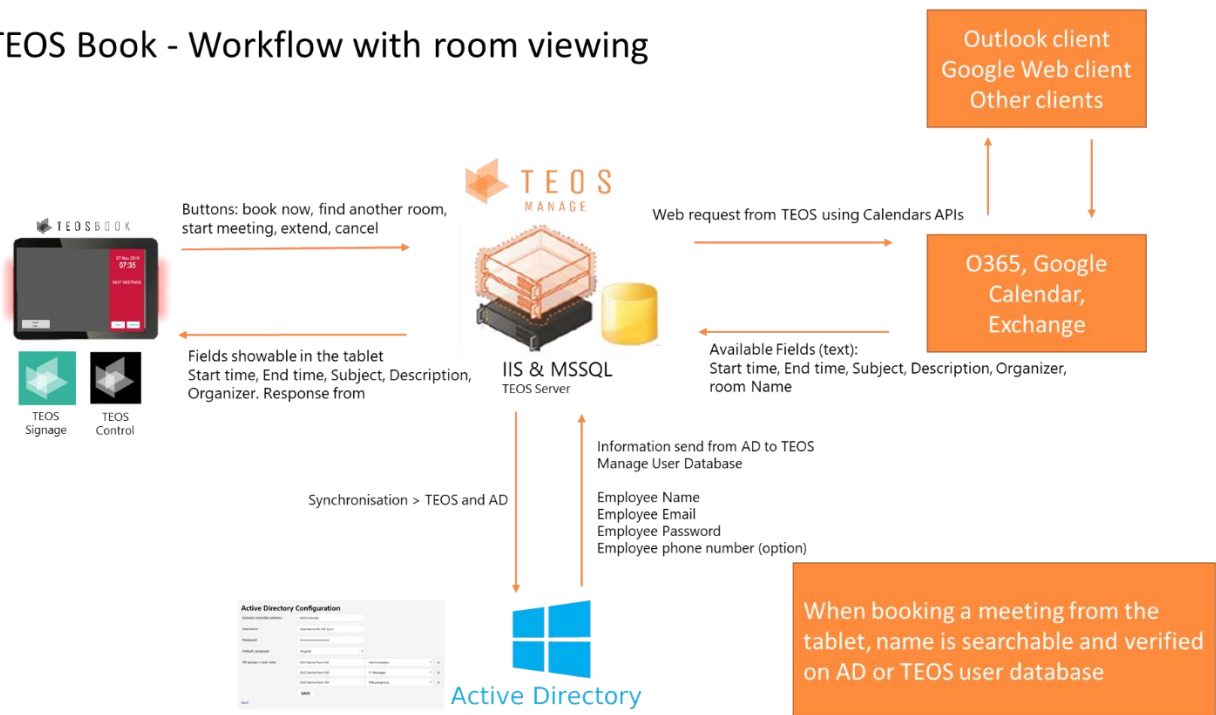
Having AD directory sync with TEOS, all the users created or removed in Active Directory will remove or add users into TEOS. Passwords of users are not saved into TEOS, the system is verifying with AD if the password is OK.
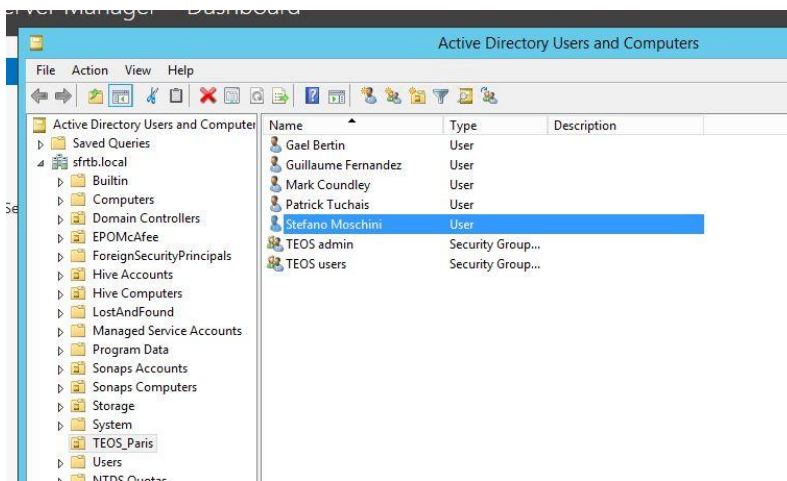
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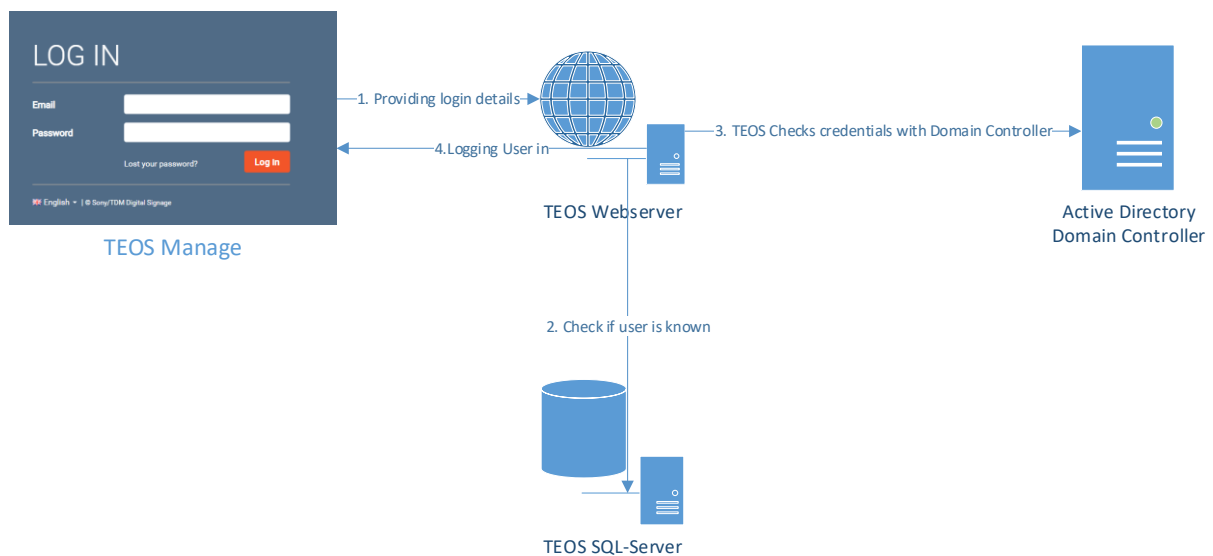
2. Configure your Active Directory

This section will give an example of a simple configuration under Active Directory in Windows Server Machine 2012R2.
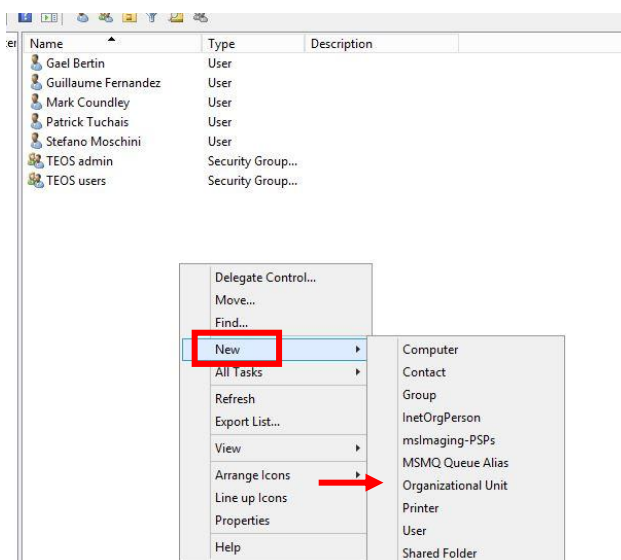
- In Domain Controller server manager, got to Tools -> Active Directory Users and Computers:
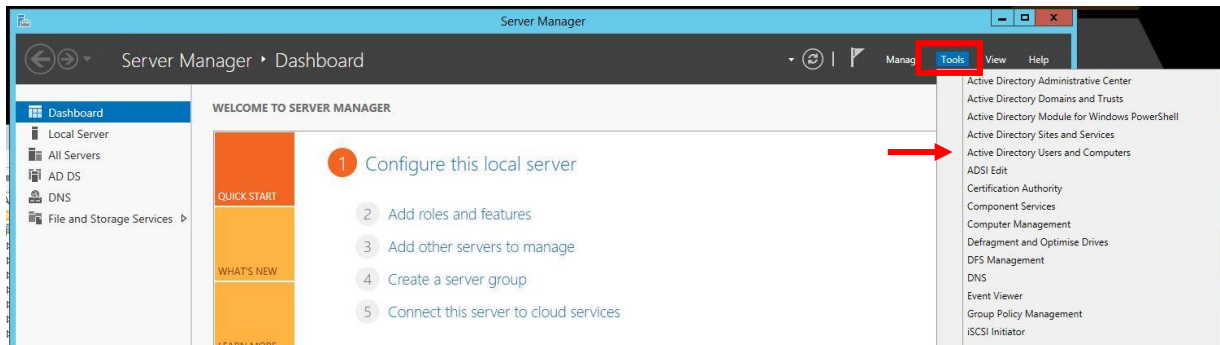
- Select the TEOS Organizational Unit (OU):

- Right click in the right pane and select New -> User

- Enter the full name and user logon name with appropriate domain name (it will be used to log into TEOS interface):

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- Click Next and enter a password for this user (password never expires can be selected):

- Click Next then Finish, the user is created:

- Double click on the newly created user to open the properties, fill the other fields if necessary (phone, email etc):

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- **For RFID ID number (used with badge reader feature):** click on the Attribute Editor tab and scroll down to Employee Number:
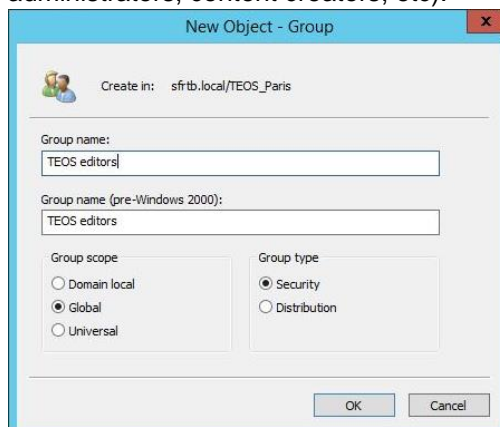

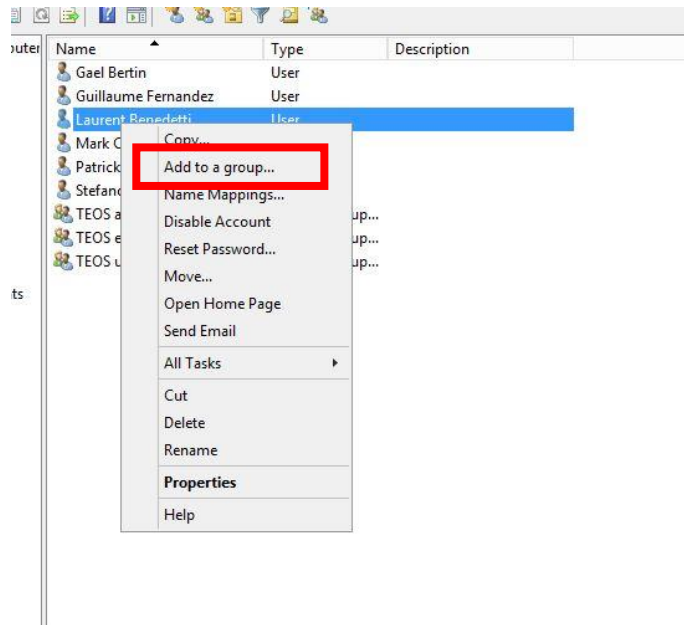- Edit the field with user's badge ID:

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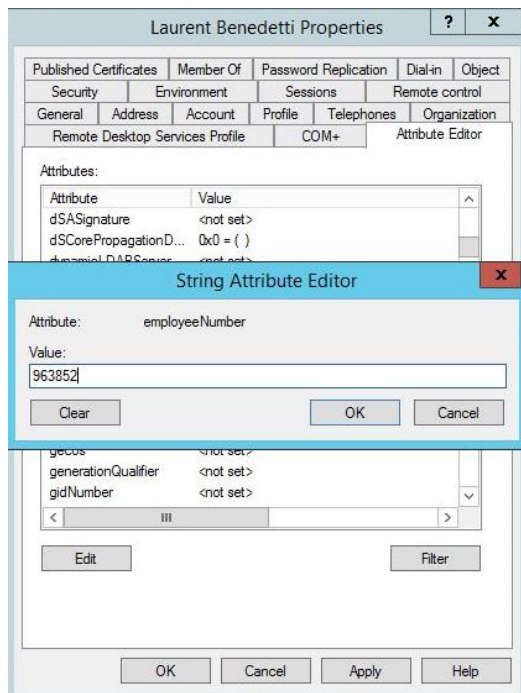
- Right click in the right pane, then select New -> Group:
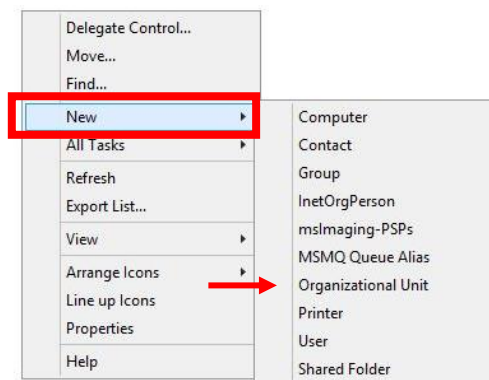
- Create a new group of users, according to their roles in Manage for TEOS (for example administrators, content creators, etc):
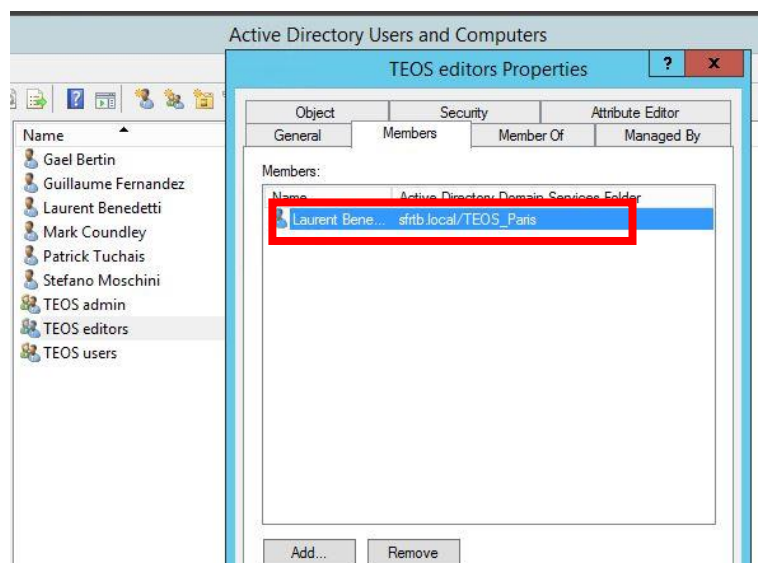
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- Right click on the users and select Add to a group… :

- In the "Enter the object names to select" field, enter the desired group name then Check Names -> if it's an existing group, group name should be underlined:
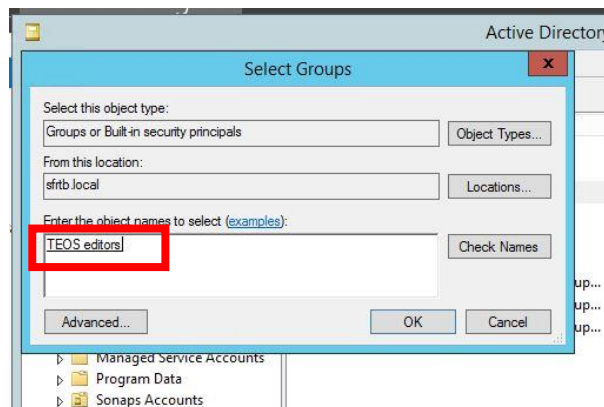

- When double clicking the group, in the Properties -> Members tab, user should be added:

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3. Sync Manage for TEOS with AD

This section explains how to synchronize your OU (Organization Units) under AD dedicated for Manage for TEOS into Manage for TEOS. Please note that all the users into TEOS database are removed when Active Directory is selected, the creation of new users will only be possible from Active Directory. The admin user account on Manage for TEOS is not removed when Active Directory is synced.

Open the "Administration" menu
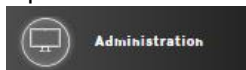
Select directly "Active Directory Settings" from the tab
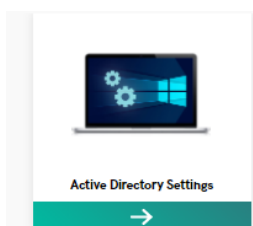
In the following screen please fill in the following fields:

- **Domain controller address:** Address of your domain controller
- **Use SSL if your Active directory is secured (LDAPS)**
- **Username:** fill in a user with enough privileges
- **Password:** The password of the user
- **Enable Single Sign on if you use SSO with Active Directory**
- **User to map built-in admin if you want to synchronize admin account with AD**
- **Default Language:** The default language which will be assigned for the users
- **AD Group:** The group which you want to synchronize with TEOS, it is possible to add multiple groups by selecting the "+" icon.
- **User Roles:** The role which the user will have inside Manage for TEOS

When saving your configuration, not that the synchronisation between Manage for TEOS and Active Directory is done every 5 minutes. Please wait for a while for a full Active Directory synchronization.

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Users
On this page you can add or edit your TEOS users and employees, and configure their main settings and rights accordingly.

24 users	Email ▽	Name ▽	Role ▽
✎	admin		Administrator
✎ 🗑	content@teos	Content HTU	Content Creator

- • After 5 minutes, the user data will be read from this group, and the user will be affected to the selected role. Under a user, the language used for the interface is changeable as well as the device localization where the user can access to devices (in yellow)

If you want to give users rights using Active directory under a device group (site management), you can you to site management and site configuration

Create a new device group or edit an existing one.

Under your device group, you can sync the active directory group that will have the access to the device localization.

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You user group will only have access to the device group created under TEOS.

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For more information
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