

Single Sign-on & User Provisioning

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Single Sign-On & User Provisioning with Microsoft Entra ID

Information about Single Sign-On & User Provisioning regarding Easy Systems applications

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1 Introduction

This document describes the Single Sign-On and User-Provisioning functionality regarding Easy Systems application Easy Invoice.

Requirements:

- Identity Provider based on OAuth.
- Microsoft Entra ID for user-provisioning

User Provisioning is the process of importing users in your application. The importing of users is done via the Microsoft Graph API.

With Single Sign-On it is possible to use an external Identity Provider to login to the Easy Systems applications.

The customer needs to provide the following requirements before Easy Invoice can integrate with Entra ID.

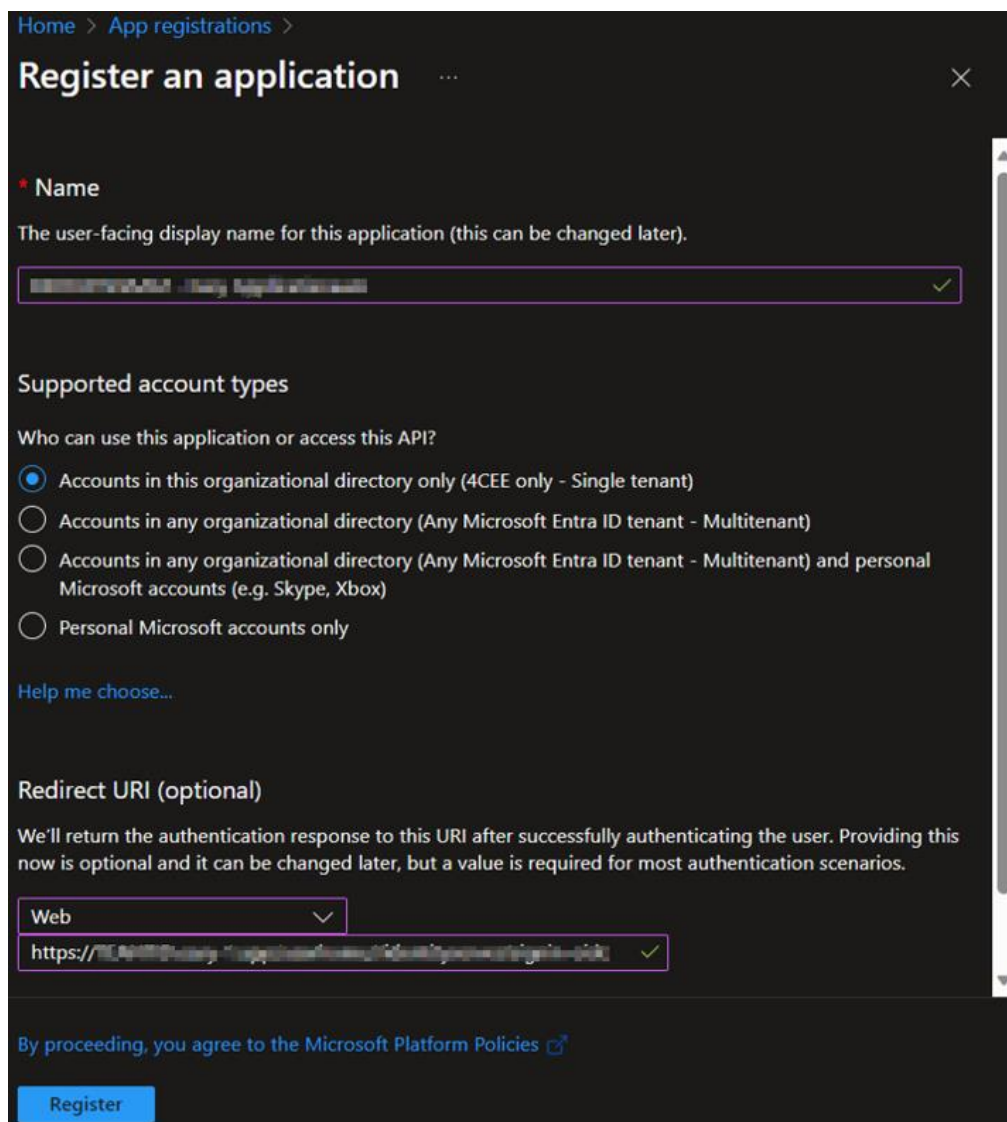
- One app registration with the described requirements for Single Sign-On and User Provisioning.
 - o Tenant ID
 - o Client ID
 - o Client Secret
 - o Active Directory Easy Systems User credentials
 - Username
 - Password

2 Microsoft Entra ID

Log in to the Entra Portal. You can do this via <https://entra.microsoft.com>. Click on 'Applications' in the left column and select 'App Registrations'.

2.1 Register an application

Create a new App registration and enter the Easy Invoice URL in the Redirect URI. This is often <https://customername.easysystems.app/easyinvoice/> and will be supplied by the Easy Systems consultant. Please note, the last slash in the URL is required for Easy Invoice to function correctly.



The screenshot shows the 'Register an application' form in the Microsoft Entra ID portal. The form is titled 'Register an application' and has a close button (X) in the top right corner. The breadcrumb navigation at the top shows 'Home > App registrations >'. The form contains the following sections:

- Name:** A text input field with the placeholder 'Name' and a description: 'The user-facing display name for this application (this can be changed later)'. The input field contains the text 'My Application' and has a green checkmark icon on the right.
- Supported account types:** A section titled 'Who can use this application or access this API?' with four radio button options:
 - ☒ Accounts in this organizational directory only (4CEE only - Single tenant)
 - ☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)
 - ☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
 - ☐ Personal Microsoft accounts only
- Help me choose...:** A link to help with account type selection.
- Redirect URI (optional):** A section with a description: 'We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.' It includes a dropdown menu set to 'Web' and a text input field containing the URL 'https://customername.easysystems.app/easyinvoice/' with a green checkmark icon on the right.
- Agreement:** A statement 'By proceeding, you agree to the Microsoft Platform Policies' with a link icon.
- Register button:** A blue button labeled 'Register' at the bottom.

Figure 1: Register an application

Now open the application you just created and complete the following steps.

2.2 Authentication

Select Authentication in the left menu and make sure that 'ID Tokens' (used for implicit and hybrid flows) is checked, save this.

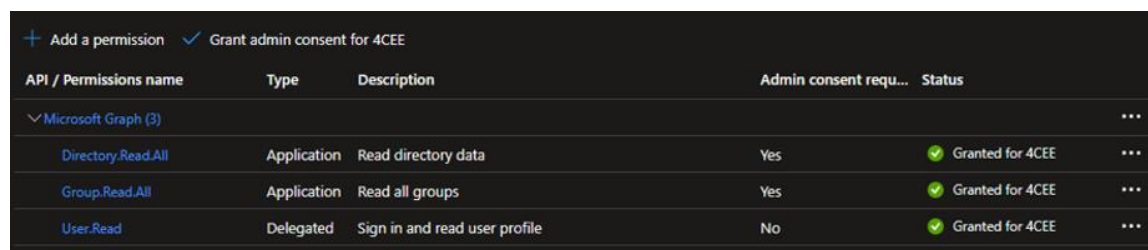
If the customer has forgotten to enter the redirect URI when creating the app registration, this must be done here.

2.3 Certificates & Secrets

Open Certificates & Secrets in the left menu. Create a new secret under client secrets. (Note: this token is visible once.). Save this somewhere temporarily.

2.4 API Permissions

Now click on 'API Permissions'. Press 'Add a permission', then select the following permissions:



API / Permissions name	Type	Description	Admin consent requ...	Status
Microsoft Graph (3)				
Directory.Read.All	Application	Read directory data	Yes	✔ Granted for 4CEE
Group.Read.All	Application	Read all groups	Yes	✔ Granted for 4CEE
User.Read	Delegated	Sign in and read user profile	No	✔ Granted for 4CEE

Figure 2: API Permissions

With these rights, you must pay attention to whether you select 'Application' or 'Delegated' rights. Press Grant Admin consent for X. (Note: You need Global Administrator permissions to Grant admin consent.)

2.5 Scope

Open the menu item 'Expose an API' and click on 'Add a scope'. Add a scope in accordance with the settings below.

Preference to use 'easyinvoice' for the scope name of the production environment of Easy Invoice. For the Easy Invoice testenvironment this should be 'easyinvoice_test'.

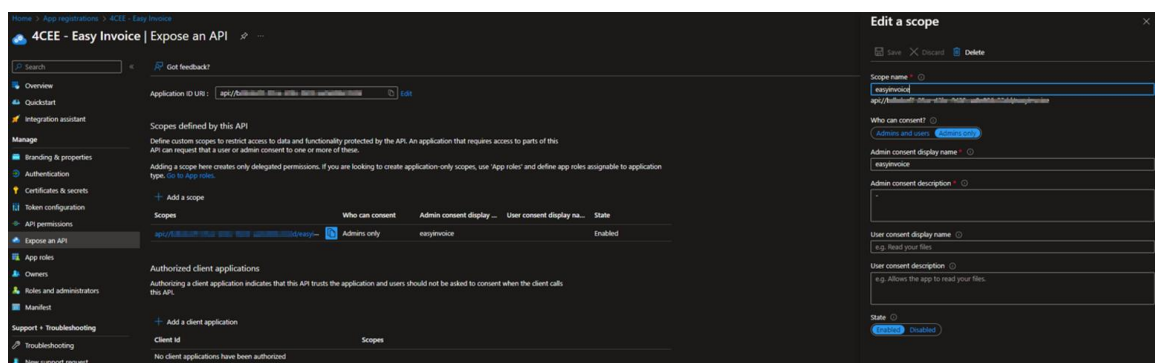


Figure 3: Expose an API

2.6 Groups

To be able to log in to Easy Invoice, users must be synchronized from Microsoft Entra ID. This is done using a group, this group (if not yet created, will have to be created first) must contain all users who need access to Easy Invoice.

Groups can be found in Microsoft Entra ID. The Object ID is related to a specific Group in Entra ID. This Object should be provided to the Easy Systems consultant. Note: The specific Easy Systems user should be included in this Group.

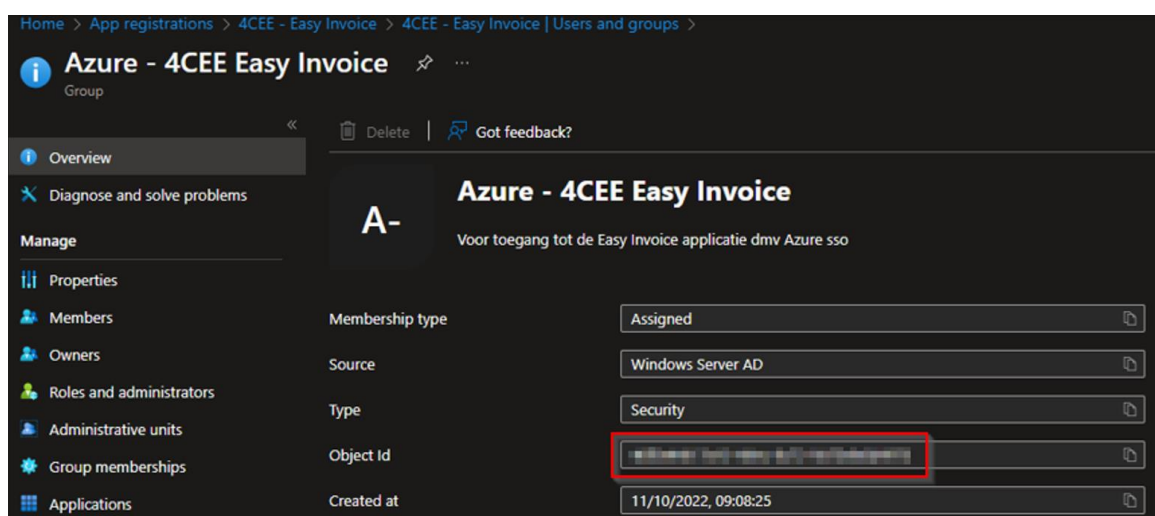


Figure 4: Entra ID Group

3 Summary

The following information must be provided by the customer to the Easy Systems consultant.

- Tenant ID (see bullet 1)
- Client ID (see bullet 2)
- Client Secret (noted in paragraph 2.3 (see bullet 3))
- Group ID (paragraph 2.6)
- Active Directory Easy Systems User credentials
 - Username
 - Password
- Scope name (paragraph 2.5)

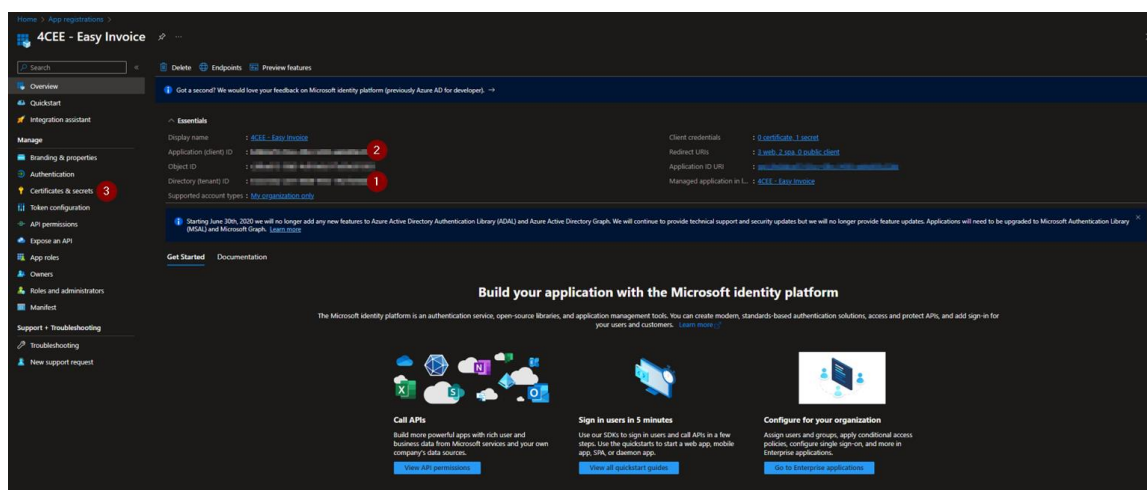


Figure 5: Created App registration.