



# KUARIO

XPP

## Microsoft EntraID Configuration Manual

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# Document history

Revision Date	Revision List
31-03-2026	Initial document

# Introduction

**Microsoft Entra ID** is a cloud-based identity and access management service that allows employees to access external resources. These resources include Microsoft 365, the Azure portal, and other SaaS applications like KUARIO. It also facilitates access to internal resources, such as corporate intranet apps and cloud apps developed specifically for an organization. Entra ID offers centralized user management by acting as a cloud-based hub for identity and access control. It streamlines administration by providing a unified platform to manage user identities, authentication, and authorization across various applications in both cloud and on-premises environments.

This manual will describe the functionality of the connection between KUARIO and the merchants' Entra ID. One thing to note is that Entra ID is the new name of Azure AD, but apart from its name it's basically the same. With the connection in place, in its current state it is possible to synchronize Managed Accounts, Managed Identifiers and Managed Subscriptions.

With the KUARIO Entra ID connector, users, user groups, subscriptions and Tags (RFID cards) can be automatically synchronized between the Microsoft and the KUARIO environment.

## Use Cases

There are 3 main use cases for the KUARIO Entra ID connector:

### 1. Automatic management of managed user accounts

Managed user accounts are KUARIO accounts that are managed by the organization of a merchant. For normal KUARIO accounts a user needs to give permission for everything; if an organization like a university wants to connect data like an identifier (for example, a physical student card) or give the person privileges like discount, the KUARIO user needs to accept this. A well-known issue is that a lot of users don't accept these invitations for discounts or identifiers and thus can't make use of the given privilege. This is causing a hassle for the local KUARIO managers and service employees. More organizations make use of Entra ID, this can be seen as a central list of all users / groups within an organization. With the KUARIO Entra ID connector we connect the KUARIO environment to a merchants' Entra ID so managed accounts are automatically created, updated and deleted.

## 2. Automatic management of managed subscriptions

Managed subscriptions are the connection between managed accounts and so called 'memberships. Membership can give access to an outlet or can give you a certain discount to purchases made with your KUARIO account. The KUARIO Entra ID connector will enable automatic syncing for members of a membership. This will update the membership when a user is added / removed from an Entra ID group.

## 3. Automatic management of managed identifiers

Managed identifiers (RFID Tags) are the connection between managed accounts and identifiers. In KUARIO's case, these are mostly physical RFID cards. For example, students' cards. In KUARIO manager there is an option to import these identifiers via a csv file. The end-users then receive an email with a QR code or link, which they must scan/click to connect the identifier to their account. With managed identifiers, these are connected automatically as the account itself is managed by the users' organization. The KUARIO Extra ID connector will enable automatic syncing for these identifiers.

# Connector Setup

There are some steps that need to be executed before Merchants **EntraID** will be connected to the **KUARIO** backend. We have included screenshots for clarity. These screenshots are indicative only and may vary from one environment to another. When a merchant wants to connect their EntraID to the KUARIO platform, the first thing they need to do is create a ClientID/client Secret for KUARIO, so the KUARIO API can communicate with EntraID.

## KUARIO Manager EntraID Setup

Go to the merchant site in KUARIO which has the 'organization role' (If you don't know what this means, please contact your reseller for further information), next go to ORGANIZATION in the top menu. If the site is indeed an organization, there will be a 'ENTRA ID' submenu item.

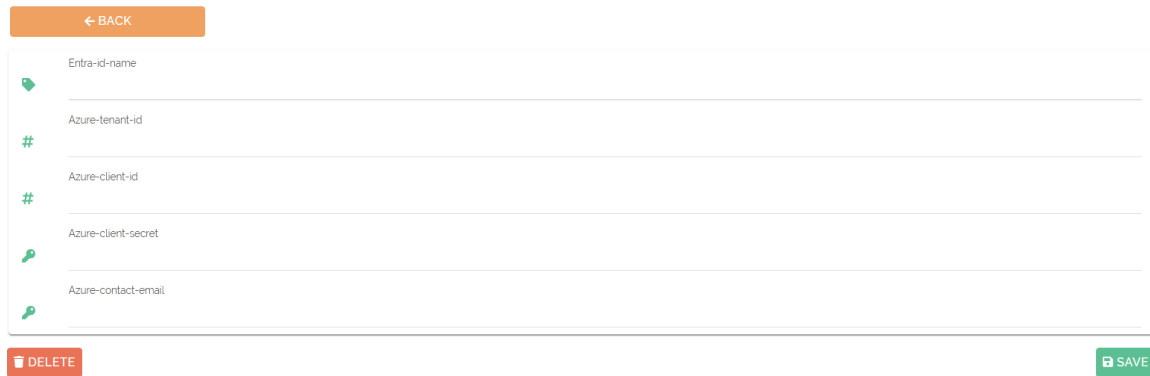


Entra ID

+ ADD

After pressing the + ADD button, there are some fields that need to be filled.

### Entra ID



### Entra-id-name

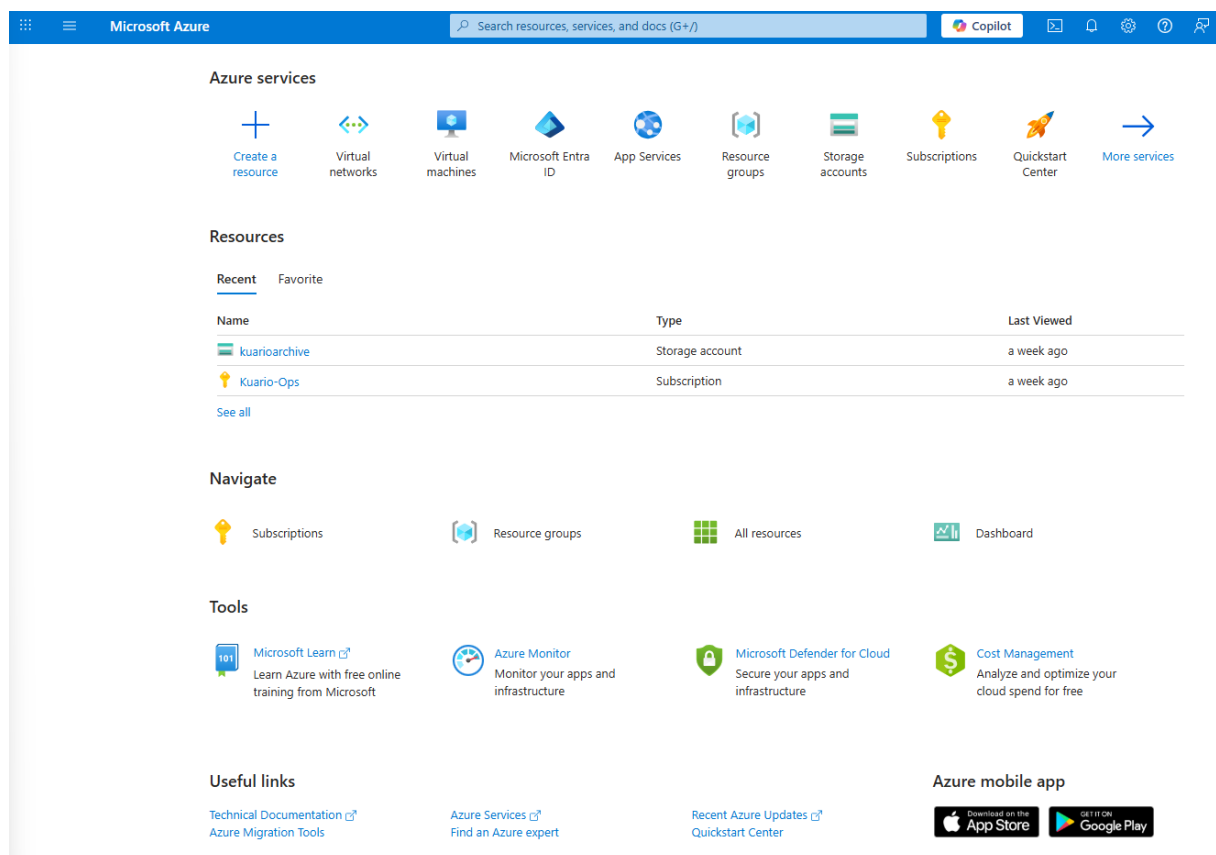
This can be anything you like; it's just for overview purposes.

### Azure-tenant-id & Azure-client-id + Azure-client-secret

These are values that need to be retrieved from the Azure App registration which will be created in the next step.

## Azure App Registration for KUARIO

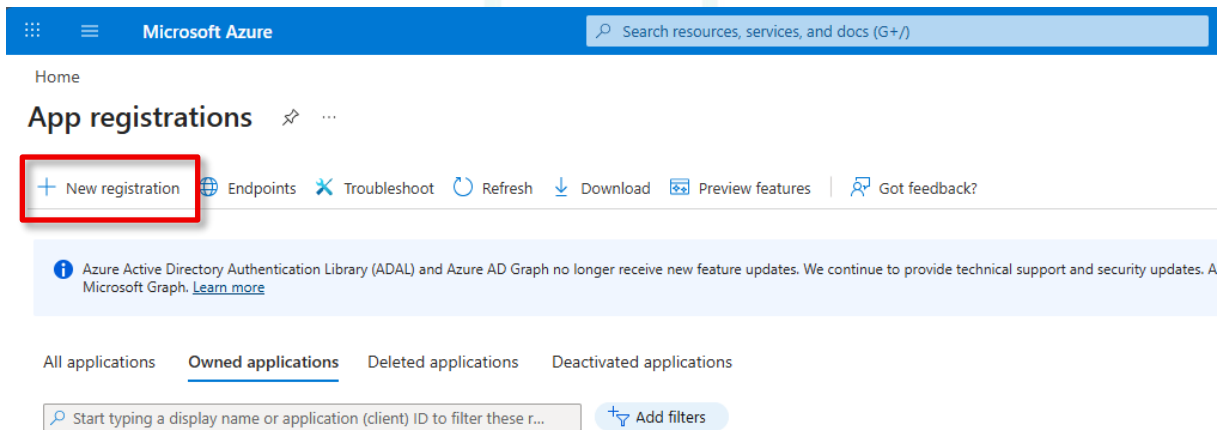
Log in to the **Microsoft Azure Portal** via <https://portal.azure.com> with an Administrator account.



Name	Type	Last Viewed
kuarioarchive	Storage account	a week ago
Kuario-Ops	Subscription	a week ago

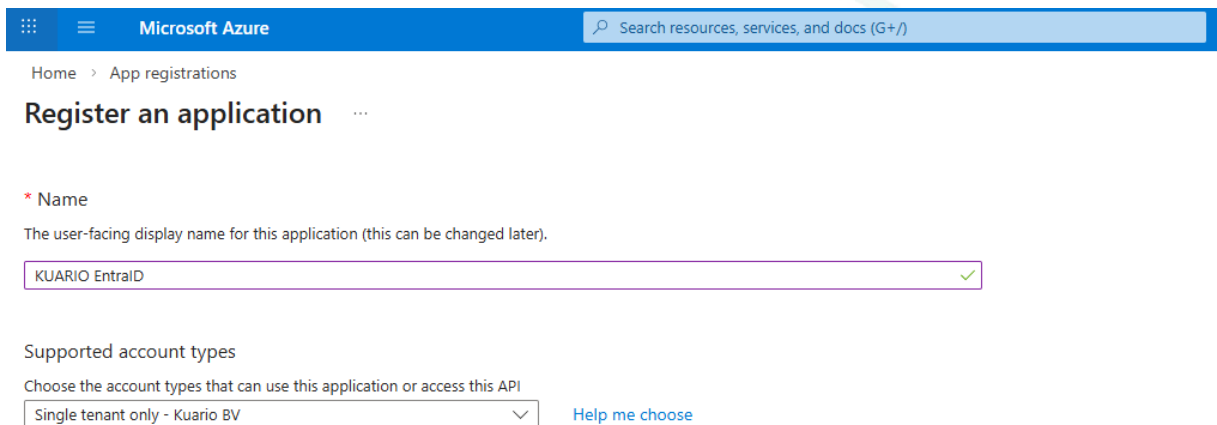
## App registration

After that, go to **App registrations** and click 'New registration':



The screenshot shows the Microsoft Azure portal interface. At the top, there is a search bar and navigation icons. Below the search bar, the page title is 'App registrations'. A red box highlights the '+ New registration' button. Other buttons like 'Endpoints', 'Troubleshoot', 'Refresh', 'Download', 'Preview features', and 'Got feedback?' are visible. Below the buttons, there is a notification banner about ADAL and Azure AD Graph updates. At the bottom, there are tabs for 'All applications', 'Owned applications', 'Deleted applications', and 'Deactivated applications', along with a search input and an 'Add filters' button.

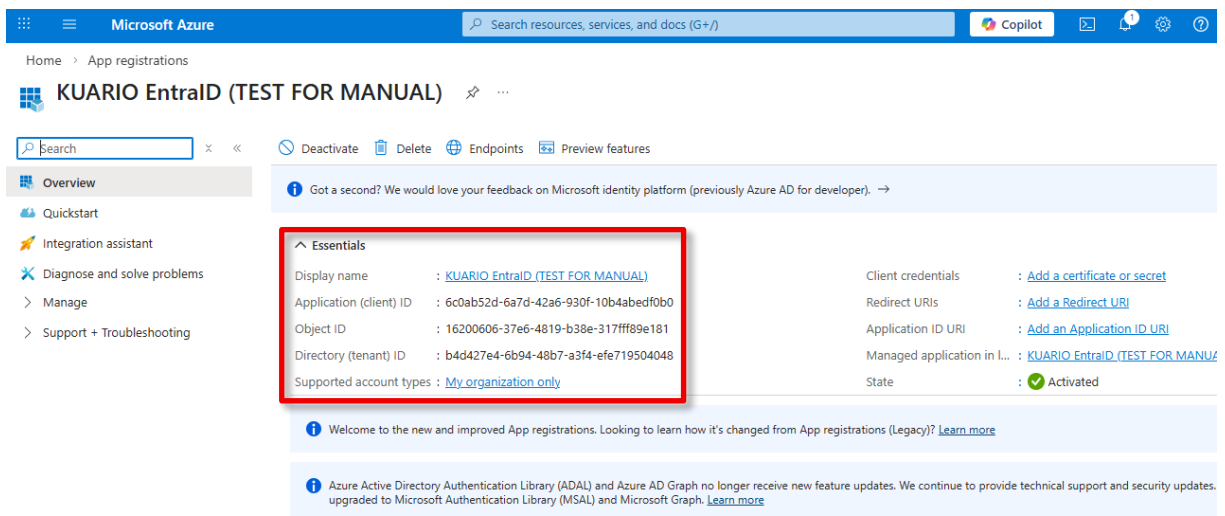
Fill in the Name and Supported account types as follows:



The screenshot shows the 'Register an application' form. The 'Name' field is filled with 'KUARIO EntraID'. Below it, the 'Supported account types' dropdown is set to 'Single tenant only - Kuario BV'. There is a 'Help me choose' link next to the dropdown. The form is part of the 'App registrations' section in the Azure portal.

## Client ID and Tenant ID

After clicking 'Create', the required values (tenant-id and client-id) for the KUARIO EntraID configuration become available.

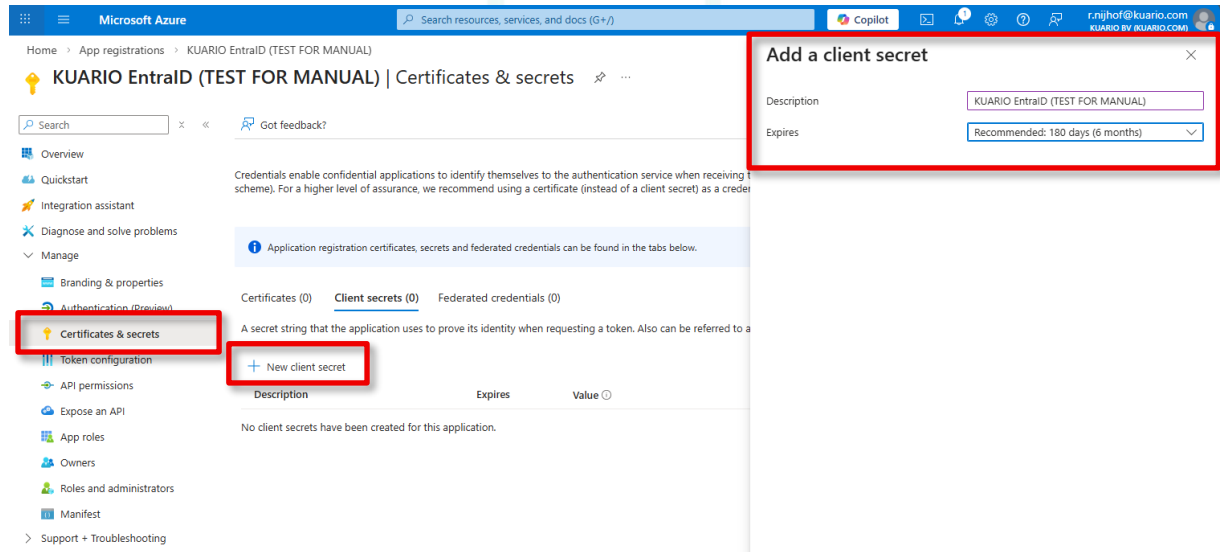


The screenshot shows the 'Essentials' section of the application configuration page. A red box highlights the 'Application (client) ID' and 'Directory (tenant) ID' fields. The 'Application (client) ID' is '6c0ab52d-6a7d-42a6-930f-10b4abedf0b0' and the 'Directory (tenant) ID' is 'b4d427e4-6b94-48b7-a3f4-efe719504048'. Other fields like 'Display name', 'Object ID', 'Client credentials', 'Redirect URIs', 'Application ID URI', 'Managed application in...', and 'State' are also visible.

Make note of the Application client ID and Directory tenant ID.

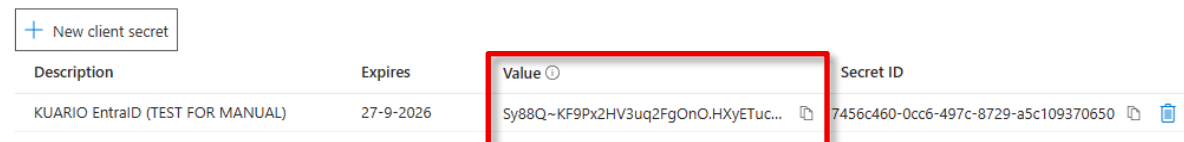
## Client Secret

After that, click on the 'Manage – Certificates & secrets' blade, and create a new client secret.



**Remember that this client secret will expire after 180 days and then needs to be renewed.**

After clicking 'Create', the Client Secret Value and ID will be available. Copy the Value and make note of it (after browsing away from this screen, the value will not be visible anymore).





## Setting API-permissions

KUARIO will communicate with your EntraID tenant. To be able to do this, it needs several permissions. In your app registration, please go to 'Manage - API permissions'

The screenshot shows the Azure Portal interface for managing API permissions. The left-hand navigation pane has 'API permissions' selected and highlighted with a red rectangle. The main area displays a warning about tenant-wide consent, followed by a section titled 'Configured permissions'. Below this, there is a table with the following data:

API / Permissions name	Type	Description	Admin consent requ...	Status
Microsoft Graph (1)				
User.Read	Delegated	Sign in and read user profile	No	

We need to add several permissions. Add the following 'Microsoft Graph' 'Application permissions'. Please note the Type of the permissions.

API / Permissions name	Type	Description	Admin consent requested
Microsoft Graph (4)			
Directory.Read.All	Application	Read directory data	Yes
Group.Read.All	Application	Read all groups	Yes
User.Read	Delegated	Sign in and read user profile	No
User.Read.All	Application	Read all users' full profiles	Yes

### Configured 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. [Learn more about permissions and consent](#)

+ Add a permission ✓ Grant admin consent for MSFT

API / Permissions name	Type	Description	Admin consent requ...	Status
Microsoft Graph (4)				
Directory.Read.All	Application	Read directory data	Yes	⚠ Not granted for MSFT
Group.Read.All	Application	Read all groups	Yes	⚠ Not granted for MSFT
User.Read	Delegated	Sign in and read user profile	No	
User.Read.All	Application	Read all users' full profiles	Yes	⚠ Not granted for MSFT

**IMPORTANT:** After adding the permissions, press the 'Grant admin consent for MSFT' button.

✓ Grant admin consent for MSFT

This concludes the App Registration in the Azure Portal.

Please enter all values in the Entra ID configuration in your KUARIO Site and click SAVE.

## Entra ID

← BACK

Entra-id-name	KUARIO
Azure-tenant-id	b4d427e4-6b94-48b7-a3...
Azure-client-id	6c0ab52d-6a7d-42a6-93...
Azure-client-secret	Sy88Q-KFgPx2HV3uq2Fg...
Azure-contact-email	support@kuario.com

DELETE SAVE

The EntraID connection is now complete.

## KUARIO Managed Accounts mapping

For each application that needs to be automated via EntraID a **Managed Account mapping** is required.

There are three mappings that can be created, of which **Account Mapping** is mandatory for Azure EntraID mappings:

- Account Mapping (Importing User accounts from EntraID)
- (optional) Subscription Mapping (Placing imported Users in specific Memberships)
- (optional) Identifier Mapping (For linking tags, cards etc.)

In the KUARIO Manager, in the top menu, go to ORGANIZATION → MANAGED ACCOUNTS.

In Managed Accounts, click ENTRA ID

ENTRA ID

### Account mapping

Select type config  
Account Mapping

Select EntraID  
Choose the EntraID Configuration

Mapping name  
Name the Account Mapping (can be anything)

Select EntraID Group  
Select the EntraID Group where the users reside

Email field  
Select the field where the user's e-mail address is set

Identifier field  
The user account Identifier field (i.e. UserPrincipalName)

Select type config  
Account Mapping

---

Select EntraId  
Not set

---

Mapping name

---

Select EntraId Group  
Not set PICK GROUP

Email field  
Not set

---

Identifier field  
Not set

---

DELETE PREVIEW SAVE

Click **SAVE** when done.

### Subscription Mapping (optional)

When using Memberships in KUARIO, the imported users can be automatically placed in Memberships. This is particularly useful when using various discount groups, for example.

Configure Subscription mapping as follows:

- Select type config
  - Subscription mapping
- Select EntraId
  - The EntraID configuration
- Mapping name
  - The name of the mapping (can be anything you like)
- Select EntraId Group
  - The Group where the users reside in EntraID
- Email field
  - The attribute of the E-Mail address
- External Identifier field
  - The user account identifier (i.e. UserPrincipalName)
- Description field
  - Description field (optional)
- Fixed Description
  - Anything can be used here if the selected column is empty
- Select Subscription
  - Select the Membership for the mapping
- Valid from field
  - Optional start date
- Fixed valid from
  - Fixed start date if the selected column is empty
- Valid till field
  - Optional end date
- Fixed valid till
  - Fixed end date if the selected column is empty

After this, click **SAVE**.

## Identifier Mapping (Optional)

With the Identifier Mapping, one can link cards and tags to Managed Accounts/User accounts. The Identifier of the cards needs to be present in a EntraID attribute.

Add a mapping with the type Identifier Mapping and configure the fields as follows:

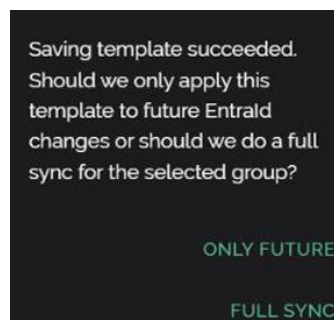
Select Entraid	The EntraID configuration
Mapping name	Any name (for example, card mapping)
Select Entraid Group	The Entraid Group where the users reside
External identifier	User Login identifier ( <b>UserPrincipaName</b> for example)
Identifier	The attribute in Azure EntraID where the card/tag numbers are set
Identifier type	The card/tag type number (for example, 22)
Fixed identifier Type	Fixed Card/tag type number if the selected column is empty
Identifier label	The attribute of the card/tag
Fixed identifier label	Fixed label if the selected column is empty

After setting all fields, click **SAVE**.

## Saving Mappings

When saving a mapping, a popup will appear stating:

**“Saving template succeeded.  
Should we only apply this  
Template to future Entraid  
Changes or should we do a full  
Sync for the selected group?”**



Choosing the 'ONLY FUTURE' option, EntraID changes from now on will use this new template. When one clicks 'FULL SYNC', it will retrieve the users from the EntraID Group and apply the saved template directly.

***Please note that this can cause duplicate records as this function just inserts new subscriptions/identifiers.***

## Testing the Mappings

To test if the mapping(s) are working, create a change in the EntraID Group for which you created a mapping and wait a few minutes. In the Managed Accounts section in the KUARIO Manager, all recent processing will be displayed when clicking IMPORT LOG.

A blue rectangular button with rounded corners containing a list icon (three horizontal lines) and the text "IMPORT LOG".

≡ IMPORT LOG

To check the current state of the Managed Accounts, the Export CSV button can be used. This creates a CSV file where existing accounts are listed with identifiers and membership subscriptions.

An orange rectangular button with rounded corners containing a document icon and the text "CSV".

📄 CSV

If you have any questions regarding EntraID, please contact us via [support@kuario.com](mailto:support@kuario.com)