# Import from Legacy RIPA

If you are a legacy RIPA agency, we are providing a utility to help with exporting and mapping your users from your on-prem Active Directory with your Azure Active Directory (Entra AD, also referenced as AAD below). The primary purpose of this Utility is to match the on-prem AD User to their AAD User Object Id, then mapping that AAD User Object Id to the Legacy RIPA OfficerId.

You can download it here: User Export Utility (When GitHub opens, use Ctrl+Shift+S to Download)

Requirements:

- Legacy RIPA database
  - Enable Headers in CSV output
    - In SSMS - Tools -> Options -> Query Results -> SQL Server -> Results to Grid -> Check "Include columns headers when copying or saving the result"
- On-prem Active Directory
  - AD attribute msDS-ExternalDirectoryObjectId must have the AAD Object ID for the user.
    - To check this:
      - Open Active Directory User and Computers
      - Open "View" from the menu and check Advanced features
      - Navigate and open a User Object using the OU tree and Details Pane (Using the search function will not work)
      - Double clicking a user will open the user's AD properties, once open go to the Attribute Editor Tab and scroll down to the msDS-ExternalDirectoryObjectId attribute
        - This attribute should have a value of "User_" followed by the AAD Object Id
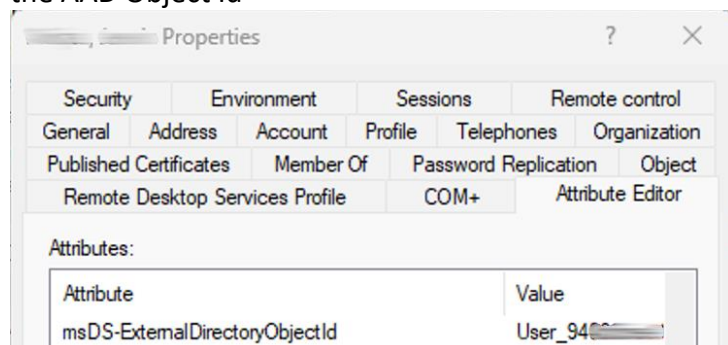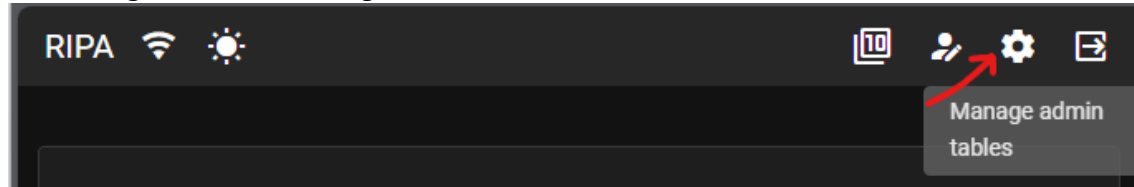

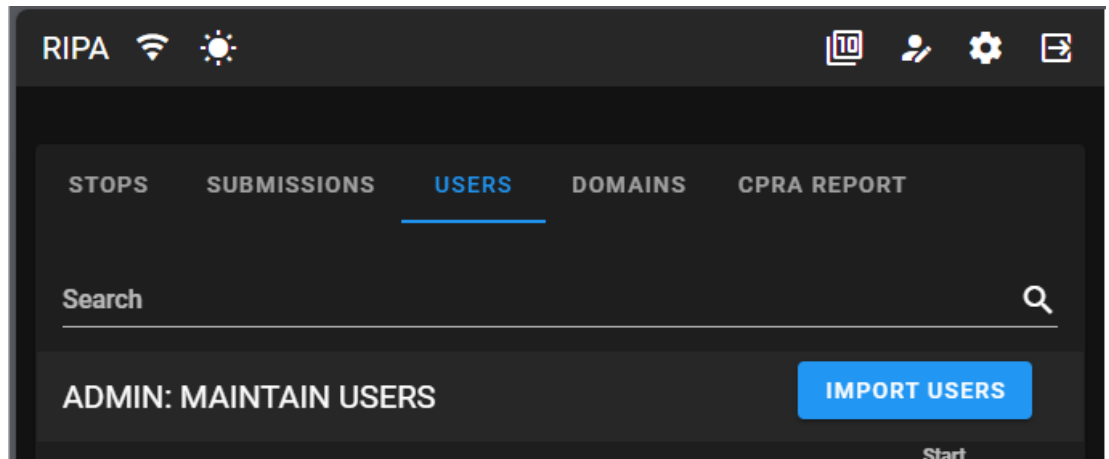- Run the Utility as an admin and follow the on-screen instructions.

The Utility outputs 2 files:

1. **RIPAUsersAAD.csv**
   a. This file can be imported into RIPA by a RIPA Admin
      i. Click the gear icon to manage admin tables

      ii. Click the Users Tab in the Admin Section then click the Import Users Button

      iii. Follow the instruction on the pop-up

2. **Report.csv**
    a. This will output some processing statistics.
        i. Total Lines in CSV w/header – The count of rows on the CSV generated from the SQL query against the Legacy RIPA database
        ii. Total Users Processed - The count of rows that were identified as Users
        iii. Total Users Complete – The Count of User outputted to RIPAUsersAAD.csv, where an AAD ObjectId was matched to Legacy RIPA App User
        iv. Total Users - Not Found in AD – The count of user from the SQL query that could not be found via NTUserName in On-Prem AD
        v. Total Users - No AAD ObjectId – The count of users that were found in On-prem AD, but did not have a value in the msDS-ExternalDirectoryObjectId attribute
    b. Users Not Found in Active Directory
        i. We have found that this is caused by NTUserName changes, where the Legacy RIPA app would generate a new OfficerId per new NTUserName
        ii. This may also be caused by deleted User Objects
    c. Users in Active Directory but have no Azure Active Directory ObjectID
        i. In this section you will find users that were found in On-prem AD, but did not have a value in the msDS-ExternalDirectoryObjectId attribute
            1. This is usually occurs if there is scenario where a UserObject is not synced to AAD, such as the account being disabled.