

LDAP Integration (*Active Directory*)

Introduction

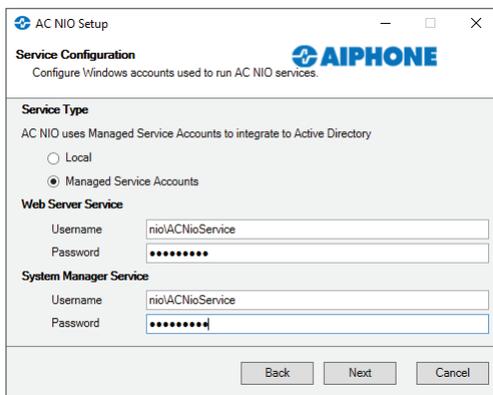
The AC Series access control system allows for domain users to be synced to the AC Nio access control software. When a user is added to an Active Directory security group, permissions will automatically be assigned to the user on AC Nio via access privilege groups. When a user is disabled on the domain controller, the user will be disabled in AC Nio as well, therefore restricting their access. This eliminates the need to manage single users on multiple systems. **Note: Configuration requires Domain Administrator rights.**

Service Account Setup

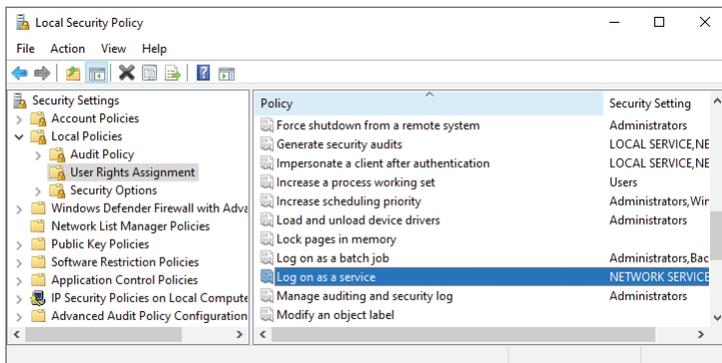
AC Nio will need to have read permissions on the domain controller. This is accomplished via the use of a **Service Account**. Logon to the domain controller with a domain administrator account that has the ability to add new users. Using AD Users & Computers or other means, add a **Service Account** for AC Nio. Add the **Service Account** to the group “**Read-only Domain Controllers**”. Ensure the service account password is not required to be reset upon login.

AC Nio Setup

Login to the PC that will be running AC Nio with an administrator account. Ensure the PC has joined the domain. Launch the AC Nio installer and select **Install (Advanced Option)**. When prompted for the account the Web Server Service and Management Service will run as, specify the **Service Account** created in the previous section.



After the installer completes, open **Local System Policy (Win Key + R and type secpol.msc)**. Navigate the tree to **Security Settings > Local Policies > User Rights Assignment**. Give the **Service Account** created earlier permission to logon as a service.



LDAP Settings

Login to AC Nio via the web interface [https://\[hostname of AC Nio\]:11001](https://[hostname of AC Nio]:11001). On the left-hand side menu, click LDAP Integration.

FQDN	Enter the Fully Qualified Domain Name of the domain.
Forrest FQDN	Required only if the Active Directory forrest has a different FQDN than the domain.
Polling-Time	How often AC-Nio will poll Active Directory to sync changes.
Organizational Unit (OU)	Specify what OU will be synced using LDAP. If no OU is specified, the entire domain forrest will be synced.

Check the boxes for “**Allow LDAP Authentication**” and “**Allow LDAP Group/User Sync**”. Click **Save** when finished.

Fully Qualified Domain Name

Forest Fully Qualified Domain Name

LDAP Polling Time min

Root Group OU

Allow LDAP Authentication

Allow LDAP Group/User Sync

Do not click the **Force Sync** button or **Force Refresh** button (starts the initial synchronization) until User Credential mapping, Custom Field mapping and all required AD Groups have been added as Access Privilege Groups.

Access Privilege Groups (Syncing Users)

On the left-hand side of the AC Nio web interface, click **Access Privilege Groups**. Set the **Group Type** to LDAP. In the **Name** field, start typing the AD security group that will be synced and select it from the list. This field uses a typeahead function. Set the **Holiday Group** if necessary. Assign the Access Privilege Group to **Readers** and **Floors**. For each **Reader** or **Floor** the group has access to, select which **User Schedule** will be used to grant or deny access. Click **+Create** when finished.

Access Group

Group Type

Group

Description on

Partition

Holiday Group

Add AC Nio Administrators Using LDAP (Optional)

From the left-hand side menu select Administrators. Click **+Add** to start granting an LDAP user AC Nio administrative privileges. Select **LDAP** as the authentication type. Assign the administrator permissions or add the administrator to a Security Group created in AC-Nio.

Example: aiphone\acnioadmin

The image shows two side-by-side configuration windows. The left window is titled 'Administrator' and has the following fields: 'Type' with radio buttons for 'Local' (unselected) and 'LDAP' (selected), and 'Service Account' (unselected); 'Username' with a text box containing 'Domain\User'; 'System Admin' with an unchecked checkbox; and 'Language' with a dropdown menu set to 'Engli'. The right window is titled 'Security Group Assignment' and features a search box 'Search by Name', two buttons 'Check All' (checked) and 'Uncheck All' (unchecked), and a checkbox for 'NioAdministrators' which is unchecked. At the bottom, it shows '0 of 1 Selected' and navigation arrows.

Adding User Credentials From AD Attributes (Optional)

Unused user attributes in Active Directory can be used to supply user credentials to AC Nio. From the left-hand side menu, select **LDAP Integration**. Click the tab for **User Credentials**. Click the **+** button to associate an Active Directory **User Attribute** to an AC Nio **Credential Type**. Select a **Credential Type** from the drop-down list. Select an **Active Directory Attribute** to associate to the credential type.

Wiegand Credential from a Single AD Attribute Field	The credential will start with a Site Code or Facility Code, followed by the Credential Number and a corresponding PIN (optional). Each entry should be separated by a comma. (example: 33,1528,1234 or 33,1529)
Wiegand Credential with Fixed Site Code	The Site Code or Facility code will be set as a specific value in AC Nio. The Credential Number will be in a single AD User Attribute field. The optional PIN will be in its own field as well
Wiegand Credential from three Individual Fields:	The Site Code or Facility Code will be in a single AD User Attribute field. The Credential Number as well as the optional PIN will each be in a single AD User Attribute field.
PIN	The Site Code or Facility code will be in a single AD User Attribute field.

The image shows two overlapping windows. On the left is a 'Telephone Numbers' section from a user profile, with fields for Home, Pager, Mobile, Fax (containing '033,48503,2601'), and IP phone, each with an 'Other...' button. Below these is a 'Notes' text area. On the right is the 'Add LDAP Credential Import' dialog box. It has a 'Credential Type' dropdown menu set to 'Card' and a 'Card Field' dropdown menu set to 'facsimileTelephoneNumber'. An 'Add' button is at the bottom right.

For more details about the features and information above, please contact Technical Support.