

HOW TO.

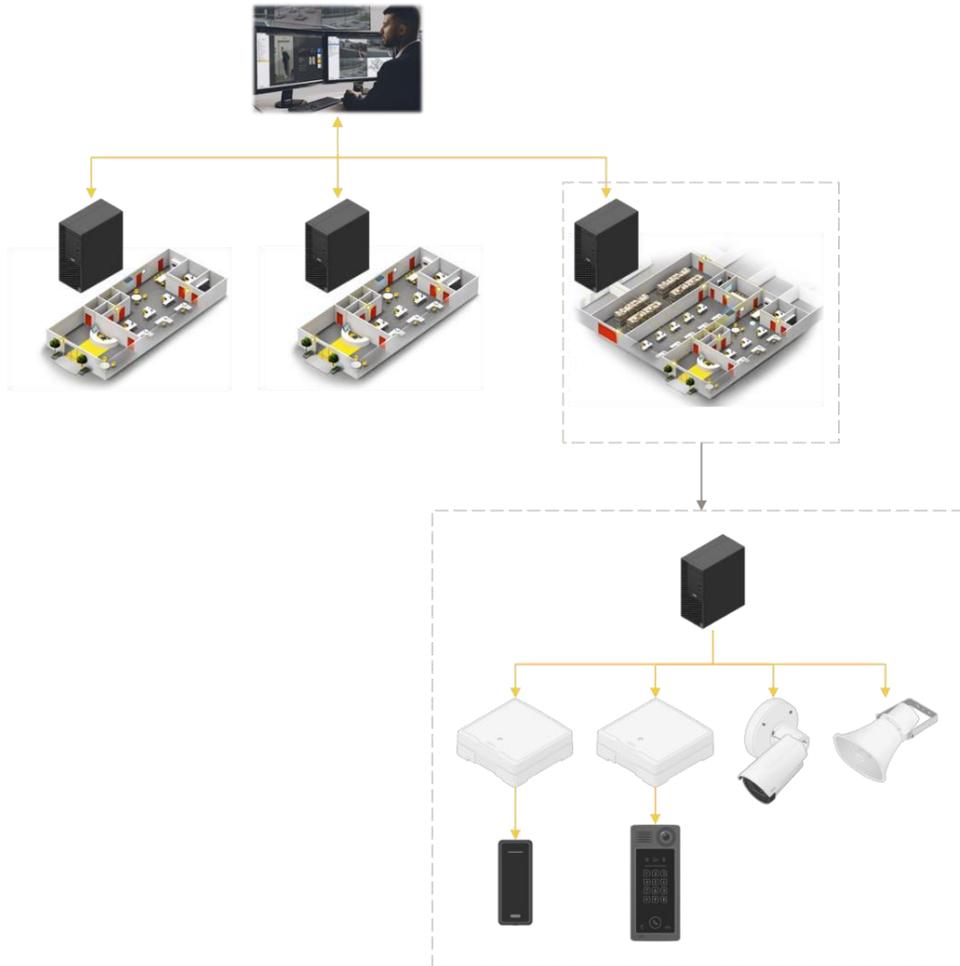
Setup Multi server for Access Control in AXIS Camera Station Secure Entry

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Introduction

Following the steps in this document will guide you on how to configure Multi server functionality for access control features in AXIS Camera Station Secure Entry.



Prerequisites

AXIS Camera Station 5.47 or higher

AXIS A1601 11.0.40.2 or higher

Please note that Axis doesn't take any responsibility for how this configuration may affect your system. If the modification fails or if you get other unexpected results, you may have to restore the settings to default.

Step 1 – Creating the Main/Sub server

We start by opening AXIS Camera Station on the server we wish to allocate as the Sub server. This will allow us to create global cardholders from this server

To create the Sub server

Follow these steps to create the Sub server:

1. In Axis Camera Station open the configuration tab via the “+” symbol found at the top of the screen.
2. From the left menu select “Access control” and under this drop-down select “Multi server”
3. On this page select “Sub server” then select “Generate”

The screenshot shows the configuration interface for a sub-server. At the top, there is a section titled "Multi server" with two options: "Main server" (Configure this server to main server) and "Sub server" (Configure this server as a sub server). The "Sub server" option is highlighted with a yellow border. Below this, the breadcrumb "Multi server > Sub server" is visible. The main content area is titled "Sub server" and contains a "Generate" button. The text below the button explains that generating a secure connection file is necessary for connecting to the main server database and that the ability to convert the sub-server to a main server is disabled until the sub-server key is revoked. At the bottom, a message states "No file has been generated" with a question mark icon.

Multi server

Main server
Configure this server to main server

Sub server
Configure this server as a sub server

Multi server > Sub server

Sub server
Configure this server as a sub server

Generate a secure connection file. This file needs to be imported on the main server in order to connect to the main server database. While connected as a sub server to the main server the possibility to make this server into a main server is disabled until the sub server key is revoked.

Generate

No file has been generated

4. A pop-up will appear to generate the configuration key file which will prevent this server from being a main server while this key is active. Press “Yes” to continue

Generating configuration file

Generating a key will make this a sub server disabling the possibility to make this server a main server. To enable the option to make this server into a main server you will need to revoke the key.

Do you wish to continue generating a sub server key?

Yes

No

5. Download the file and transfer this to the main server, noting down the name and the IP address of this Sub server.

Multi server > Sub server



Sub server

Configure this server as a sub server

Generate a secure connection file. This file needs to be imported on the main server in order to connect to the main server database. While connected as a sub server to the main server the possibility to make this server into a main server is disabled until the sub server key is revoked.

Revoke server



MyServer_6e2447e6-e1e5-4d4f-bb9e-60e12d01f490.json

Download

To create the main server

Follow these steps to create the Main server:

1. In Axis Camera Station open the configuration tab via the “+” symbol found at the top of the screen.
2. From the left menu select “Access control” and under this drop-down select “Multi server”
3. On this page select “Main server” and select the “+ Add” button.

The screenshot shows the 'Multi server' configuration page. At the top, there are two options: 'Main server' (Configure this server to main server) and 'Sub server' (Configure this server as a sub server). The 'Main server' option is highlighted with a yellow border. Below this, the breadcrumb 'Multi server > Main server' is visible. The main content area is titled 'Main server' and contains a table for managing sub servers. The table has columns for Name, Host, Port, and Status. A '+ Add' button is highlighted with a yellow border. Below the table, a message states: 'No servers have been added. Click on the '+ Add' button to add a server.'

Multi server

Main server
Configure this server to main server

Sub server
Configure this server as a sub server

Multi server > **Main server**

Main server
Configure this server to main server

Import and manage sub servers connected to this main server. Sub server configuration files are generated from the multi server/sub server menu.

+ Add Delete

<input type="checkbox"/>	Name	Host	Port	Status
No servers have been added. Click on the '+ Add' button to add a server.				

4. A pop-up will appear explaining that you are assigning this as the main server, not allowing this server to be able to become a Sub server while any Sub servers are connected. Press "Yes"

Importing a sub server

Importing a sub server will make this site the main server. Configuring a server to be both the main server and a sub server of another main server is not possible and therefore the option to generate sub server keys will be disabled until all sub server connections have been removed from this site.

Do you want to continue importing and making this site the main server?

5. In the file explorer select the Configuration key file we created and moved from the Sub server. And fill in the 2 areas with the friendly name and the IP address of the server. The port can remain default unless a specific port is used by your choice. Finally click "Import"

Import as

Please enter the following information to the sub server

Server name

Ip address

Port

6. Now you configured your main server and added the first sub server, you can repeat the Sub server steps and continue to add the Sub servers to the main site if needed. On the Main server page, you will see these servers listed with their current status. This should be green stating "Connected". If this is yellow stating "Dis-connected" please ensure you provided the correct key and matched the right IP address. These must also be in the same IP network system.

Multi server > Main server

 **Main server**
Configure this server to main server

Import and manage sub servers connected to this main server. Sub server configuration files are generated from the multi server/sub server menu.

[+ Add](#) [Delete](#)

<input checked="" type="checkbox"/>	Name	Host	Port	Status
<input checked="" type="checkbox"/>	 My Demo Sub server	192.168.1.183	55767	 Connected

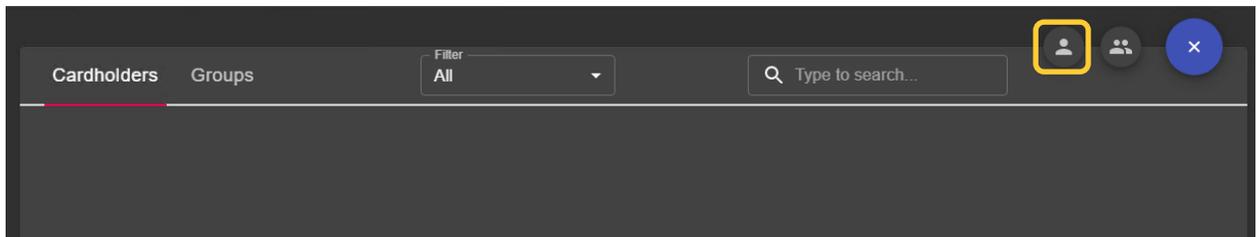
Step 2 – Creating Global cardholders

Now that the Sub servers are linked to the Main server we can create Global cardholders on the main site, these will then show up in the Sub server cardholder list so they can be given the correct access rights at each Sub server location.

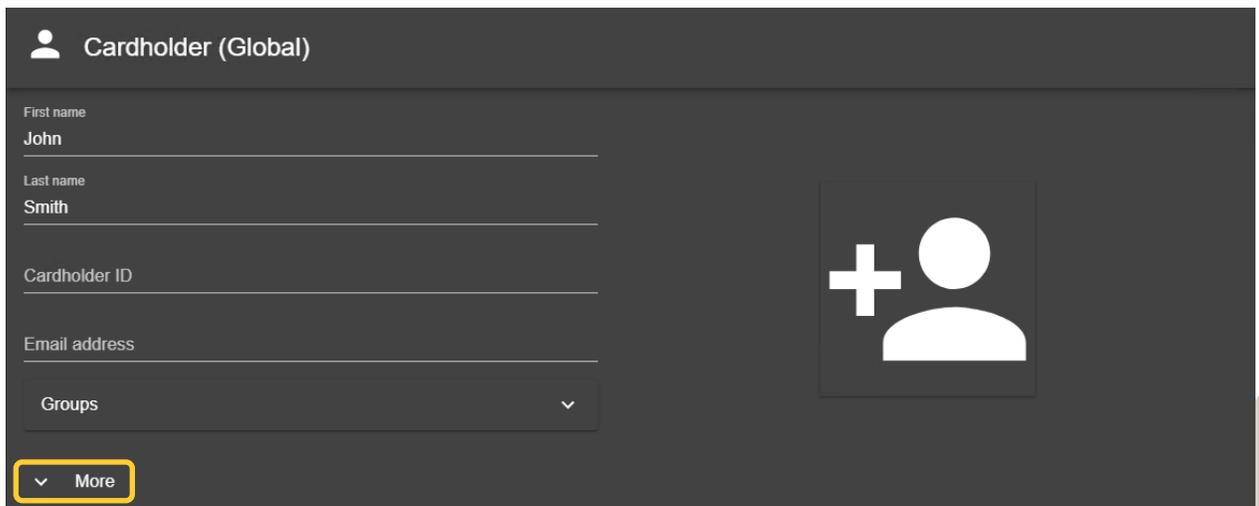
Creating a Global cardholder

Follow these steps to create a Global cardholder:

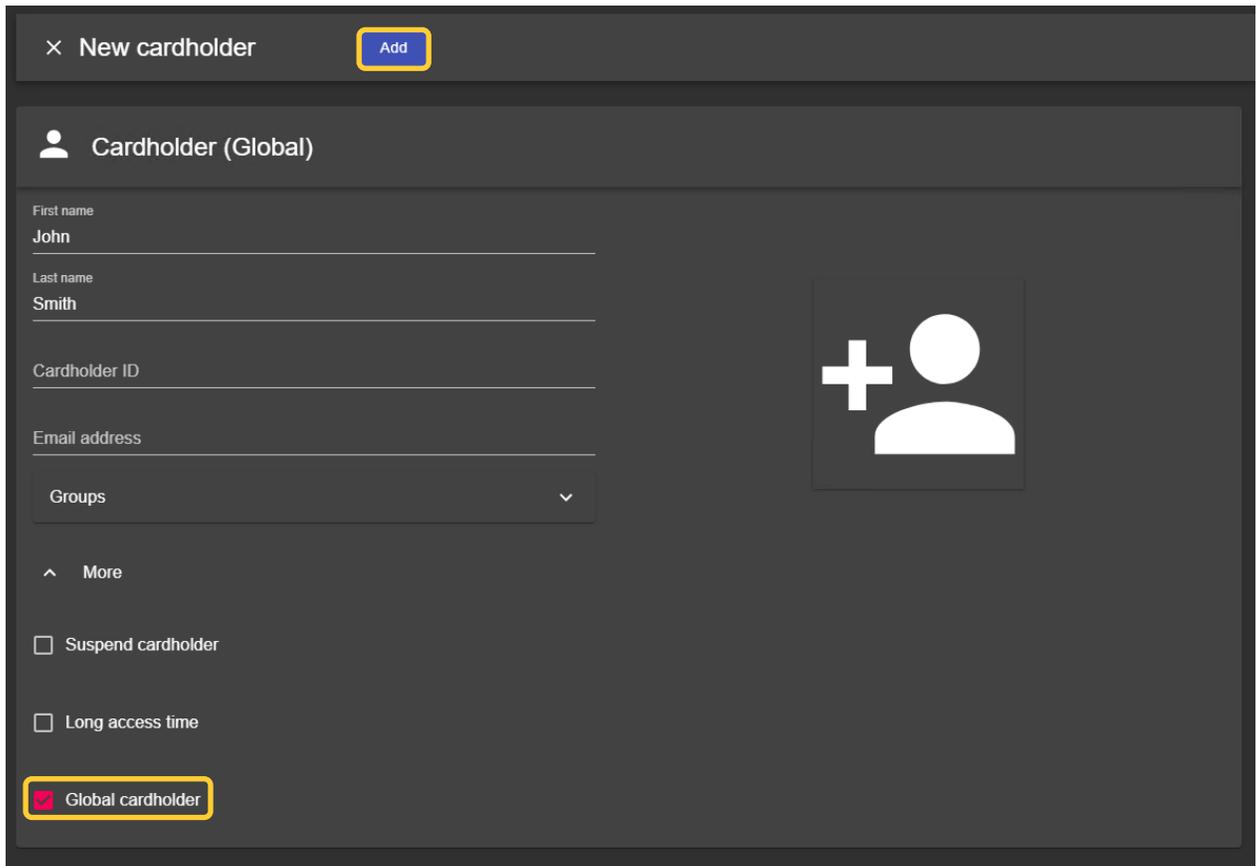
1. In Axis Camera Station open the Access Management tab via the “+” symbol found at the top of the screen.
2. On the left side panel click the “+” symbol followed but the single person symbol to start creating a cardholder.



3. Fill in the user's name, details and add the correct credentials for the cardholder, To then make this cardholder a Global cardholder select the “More” drop down to expand the additional options.

A screenshot of the 'Cardholder (Global)' form in the Axis Camera Station interface. The form has a dark background with white text and input fields. The fields are: 'First name' with the value 'John', 'Last name' with the value 'Smith', 'Cardholder ID', 'Email address', and 'Groups' with a dropdown arrow. At the bottom left, there is a 'More' button with a dropdown arrow, highlighted with a yellow box. On the right side of the form, there is a large white icon of a person with a plus sign, indicating the 'Add' or 'Create' action.

4. Now we can tick the “Global cardholder” tickbox and select “Add” at the top of the screen.



The screenshot shows a dark-themed user interface for adding a new cardholder. At the top, there is a header with a close button (X) and the text 'New cardholder', followed by a blue 'Add' button. Below this is a section titled 'Cardholder (Global)' with a person icon. The form contains several input fields: 'First name' with the value 'John', 'Last name' with the value 'Smith', 'Cardholder ID', and 'Email address'. There is also a 'Groups' dropdown menu. To the right of the form is a large white icon of a person with a plus sign. Below the form, there is a 'More' section with an upward arrow. Under 'More', there are three checkboxes: 'Suspend cardholder', 'Long access time', and 'Global cardholder'. The 'Global cardholder' checkbox is checked and highlighted with a yellow box. The 'Add' button at the top is also highlighted with a yellow box.

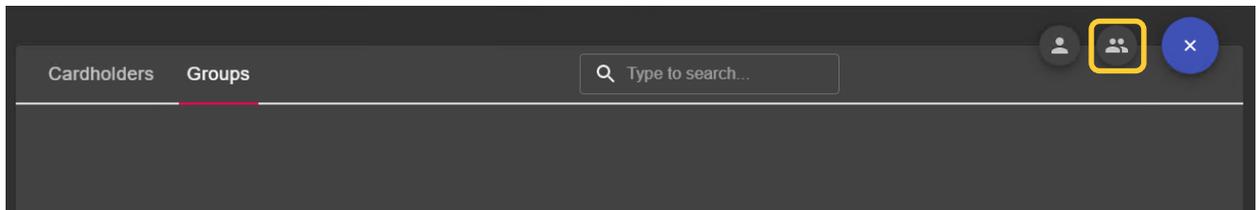
Step 3 – Creating Global groups

Now that the global cardholders have been created, we can create Global groups on the main site, these will then show up in the Sub server group list so they can be given the correct access rights at each Sub server location.

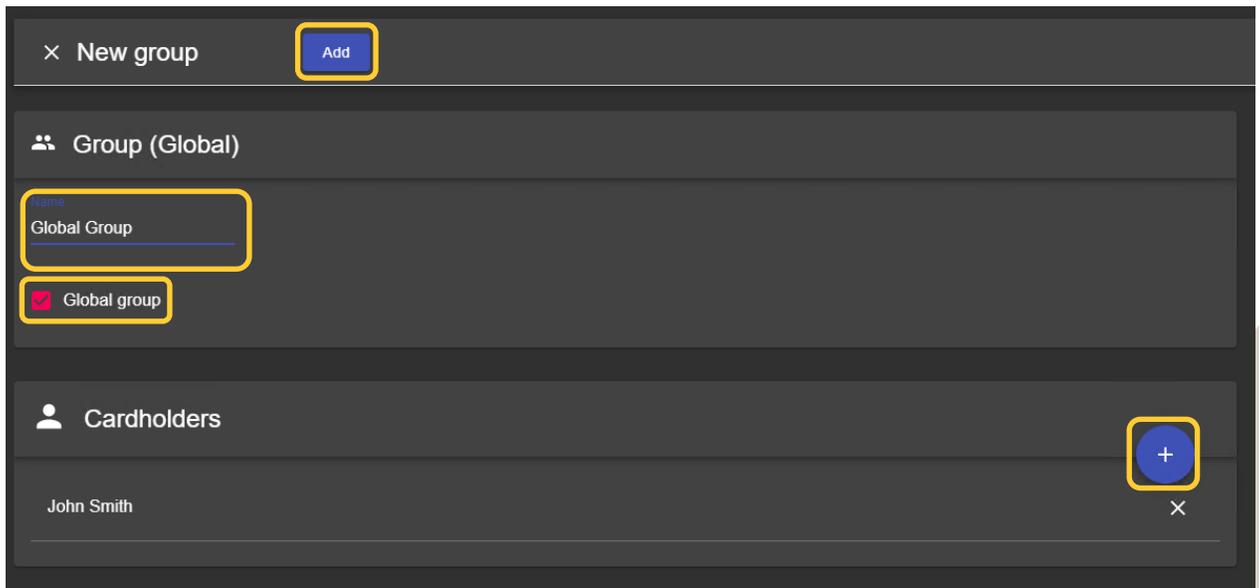
Creating a Global group

Follow these steps to create a Global group:

1. In Axis Camera Station open the Access Management tab via the “+” symbol found at the top of the screen.
2. On the left side panel click the “+” symbol followed by the double person symbol to start creating a group.



3. Here you can give the group a name and make it as a global group using the tickbox. From this page you can already add the cardholders you wish to be a member of this group. Other members can still be added or removed at a later stage. Then click “Add”



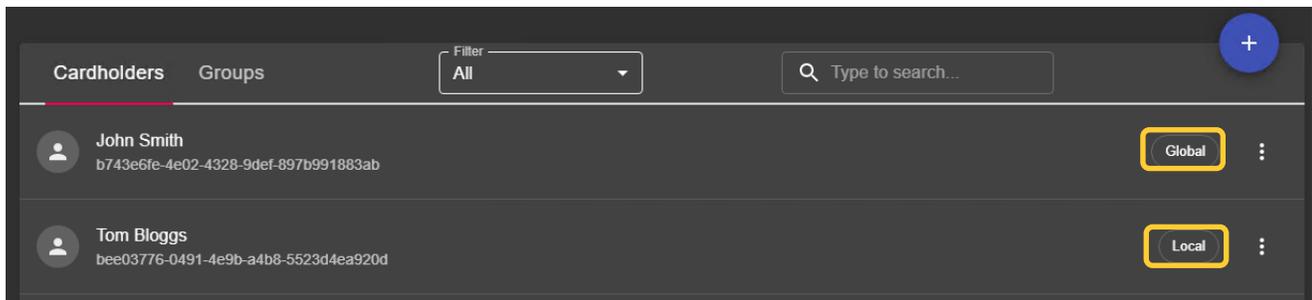
Step 4 – Managing Global cardholders

Once we have created the Global cardholders and groups from the Main server, we can now view these on the linked Sub server to apply to the rules.

Managing Global cardholders on Sub servers

Follow these steps to manage the Global cardholders on Sub servers:

1. From the Sub Server ACS client open the Access Management tab via the “+” symbol found at the top of the screen.
2. In the cardholder panel you can now see the Global cardholders and groups that were created via the main site, on the right of the cardholder is an information bubble stating if the user or group is “global” or “Local”.



3. These Global cardholders can be then added to any of the local Sub server groups and access rules like the current local cardholders.

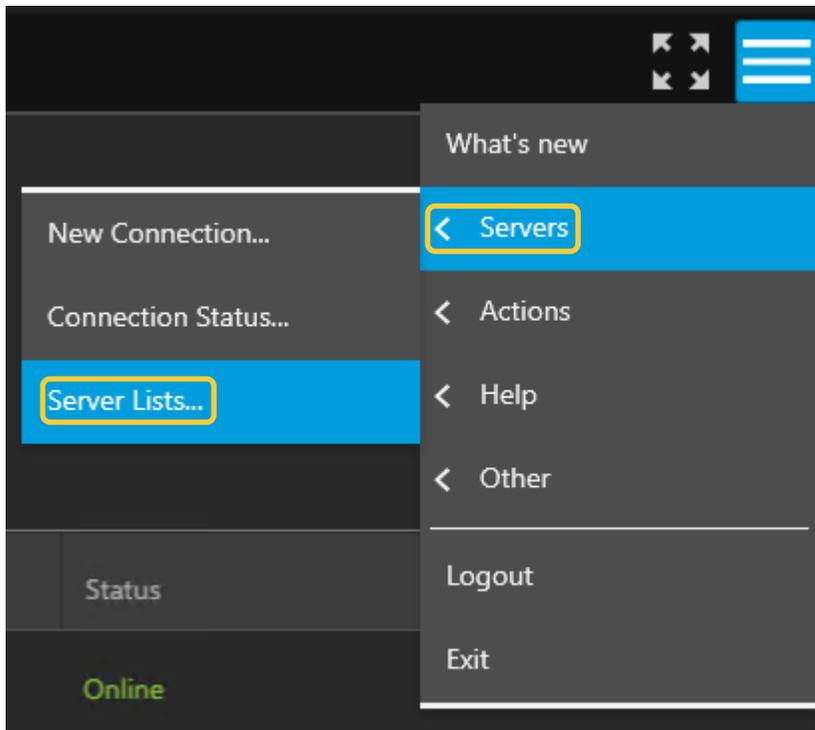
Step 5 – Adding Monitoring Sub server controllers

Now that we have the cardholders accessible, we can also configure to view the Sub server controllers from the Main server

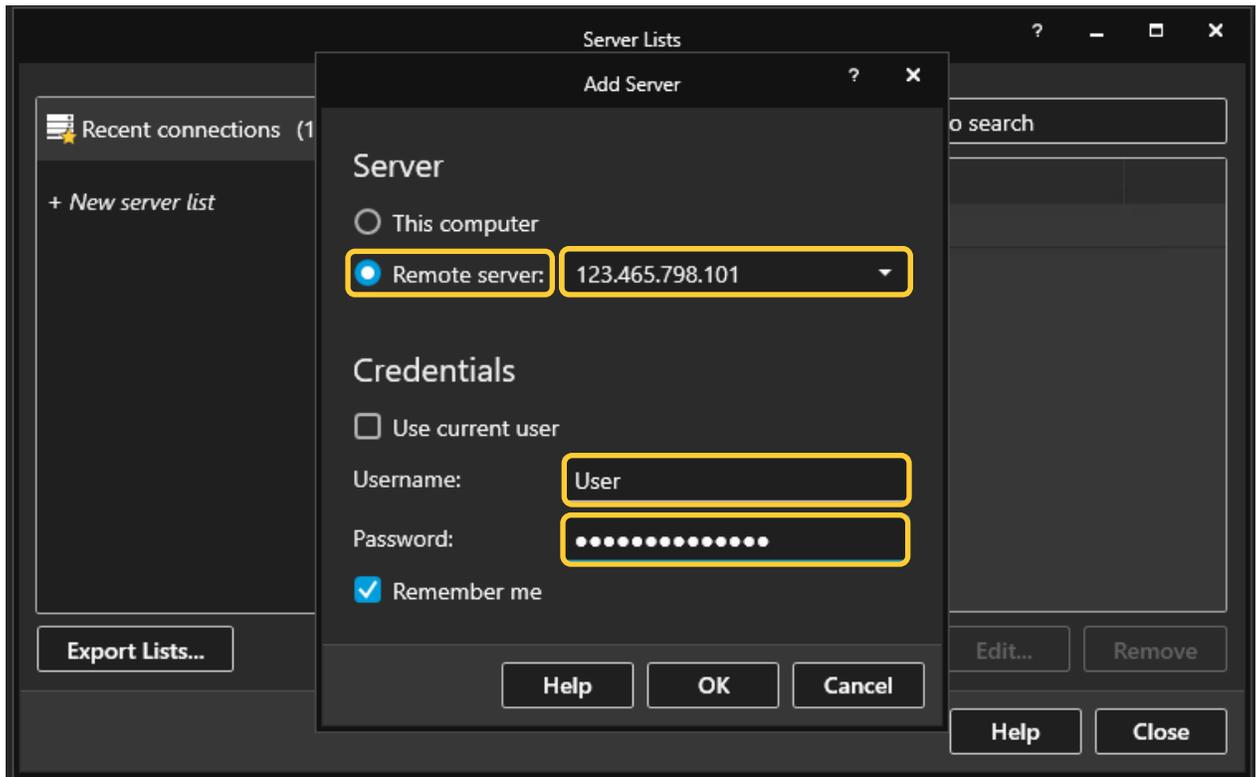
Adding the server view to the Main ACS client.

Follow these steps to add the Sub server(s) to the Main server:

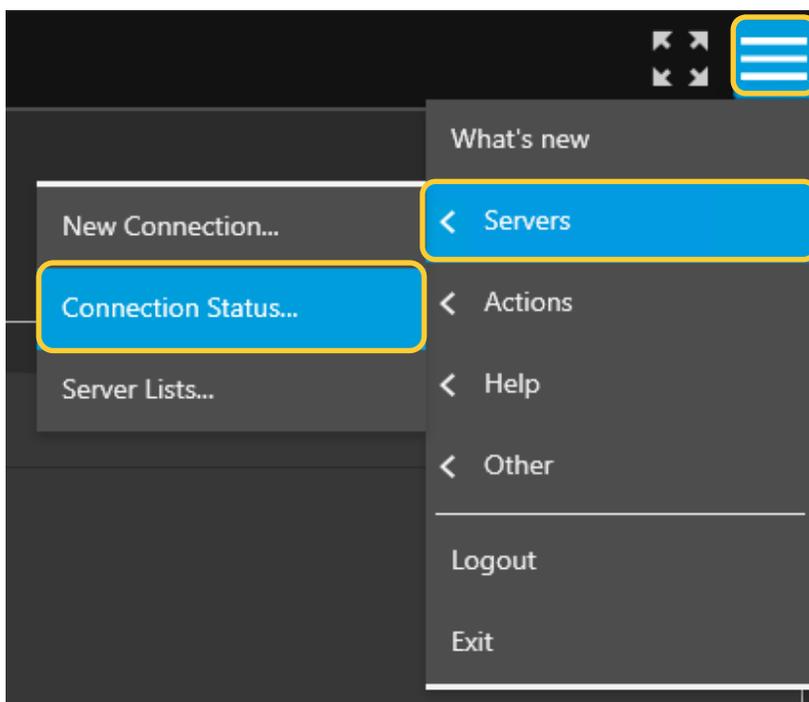
1. Click the three stacked line or “burger” symbol in the top right of the client application and choose Servers then Server Lists.



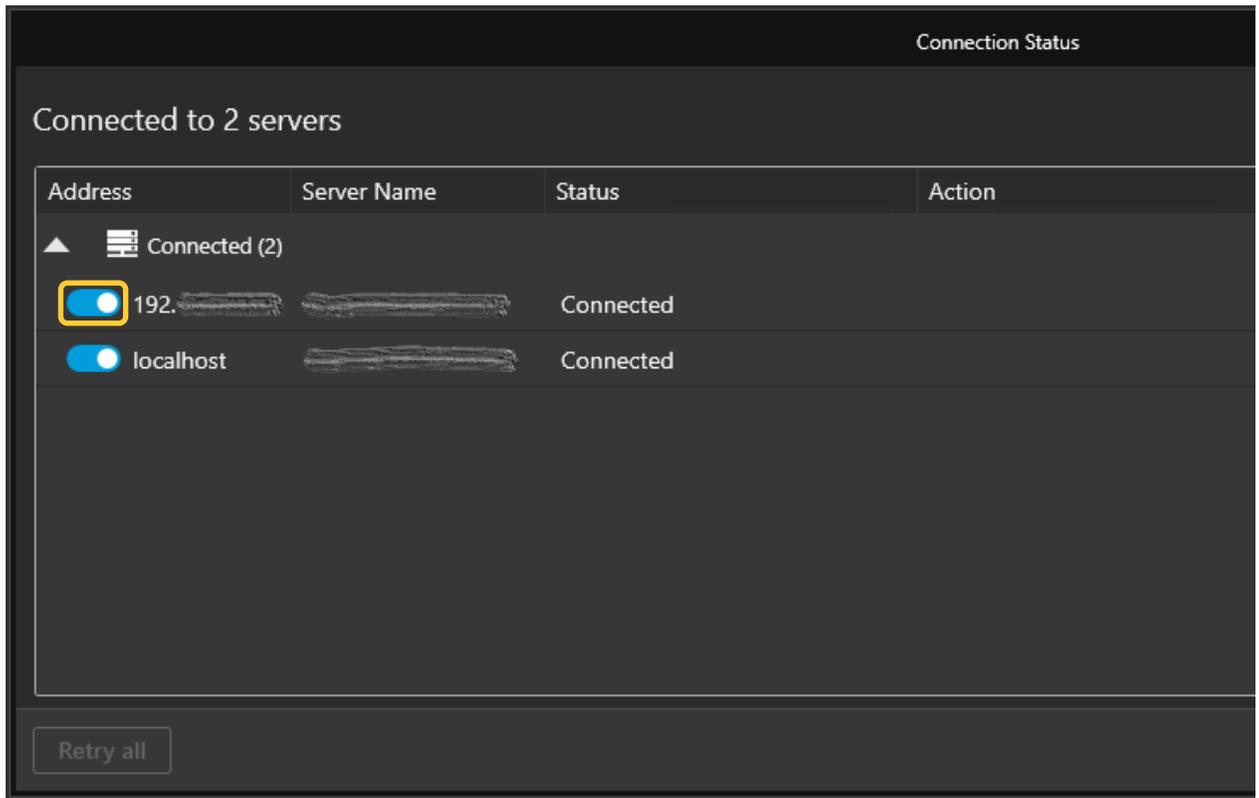
- In the pop-up select “Add” then in the next pop-up select remote server. In the fields provide the IP address, then the username and password. Finally Select “OK”



- Go To the “Connection Status” by clicking the 3 lines top right again and selecting “Servers” then “Connection Status”



4. In this new pop-up ensure that the remote servers are enabled.



Step 6 – Multi Server monitoring and assistance

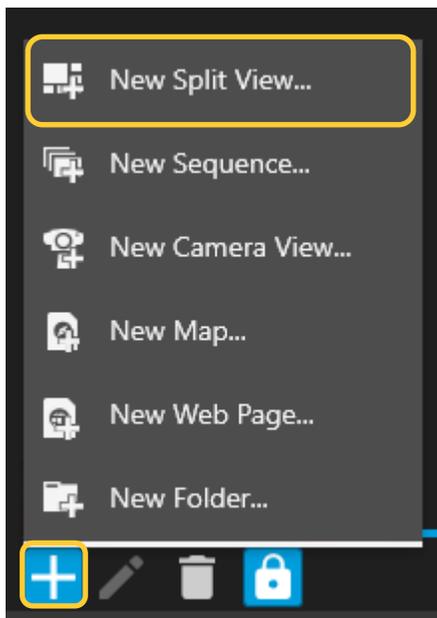
An operator, using AXIS Camera Station Secure Entry, has the possibility to monitor door statuses in real-time across multiple sites in the same split view.

An operator, using AXIS Camera Station Secure Entry, can grant access and enforce manual override actions on doors from different sites within the split view and at the same time visually verify cardholders' identities using the camera views.

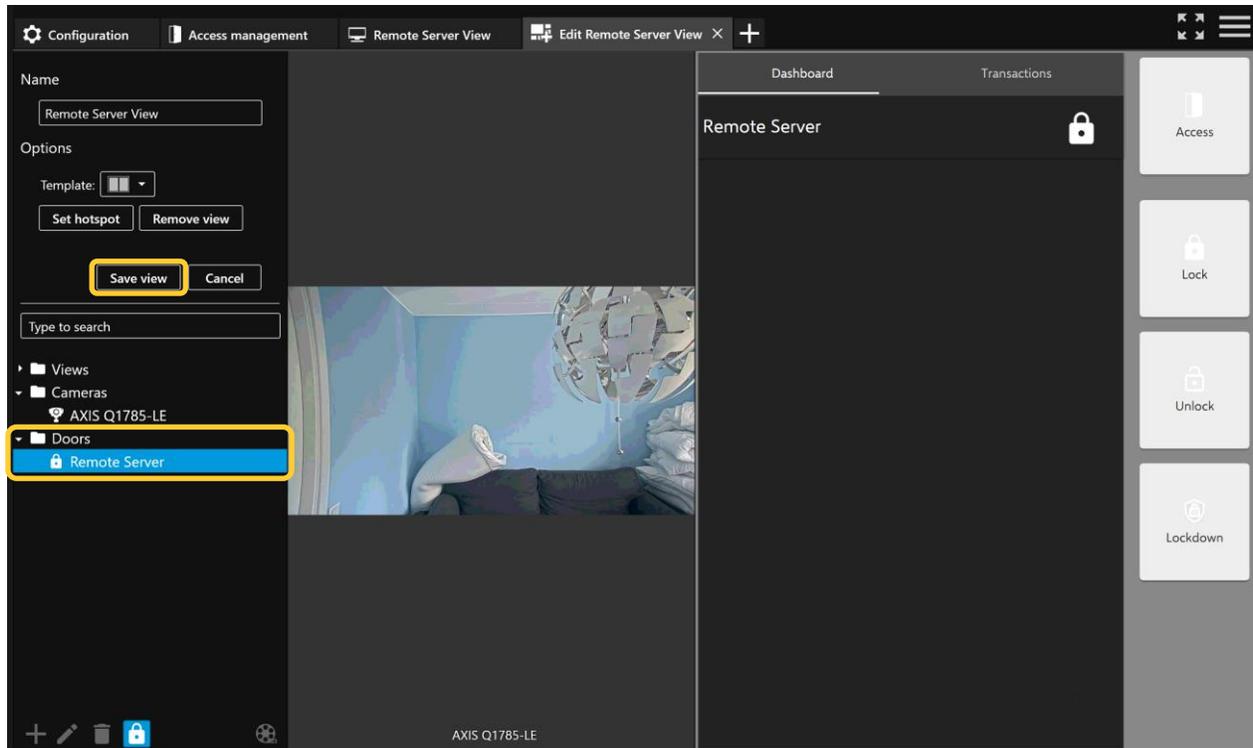
Creating a split view with door dashboards from a remote site

As the support for remote views in AXIS Camera Station is limited to Cameras and Split views the door dashboards need to be included in a split view locally to be viewed remotely.

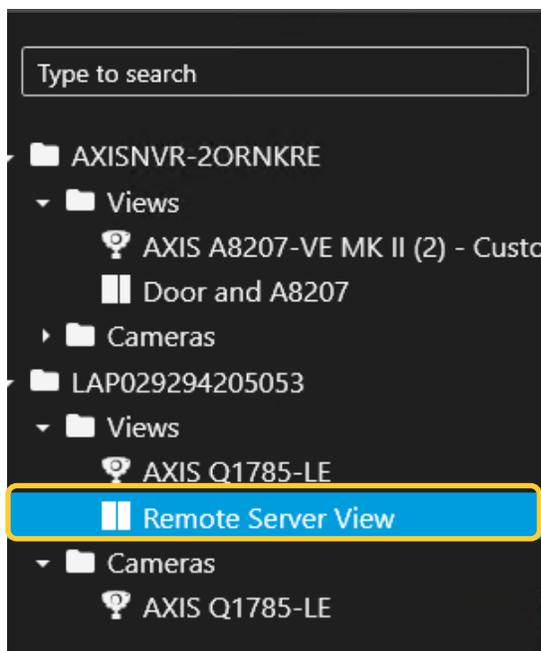
- While being locally connected to the sub server that has the doors you want to monitor remotely open a live view tab, press the +-button and select to create a new split view.



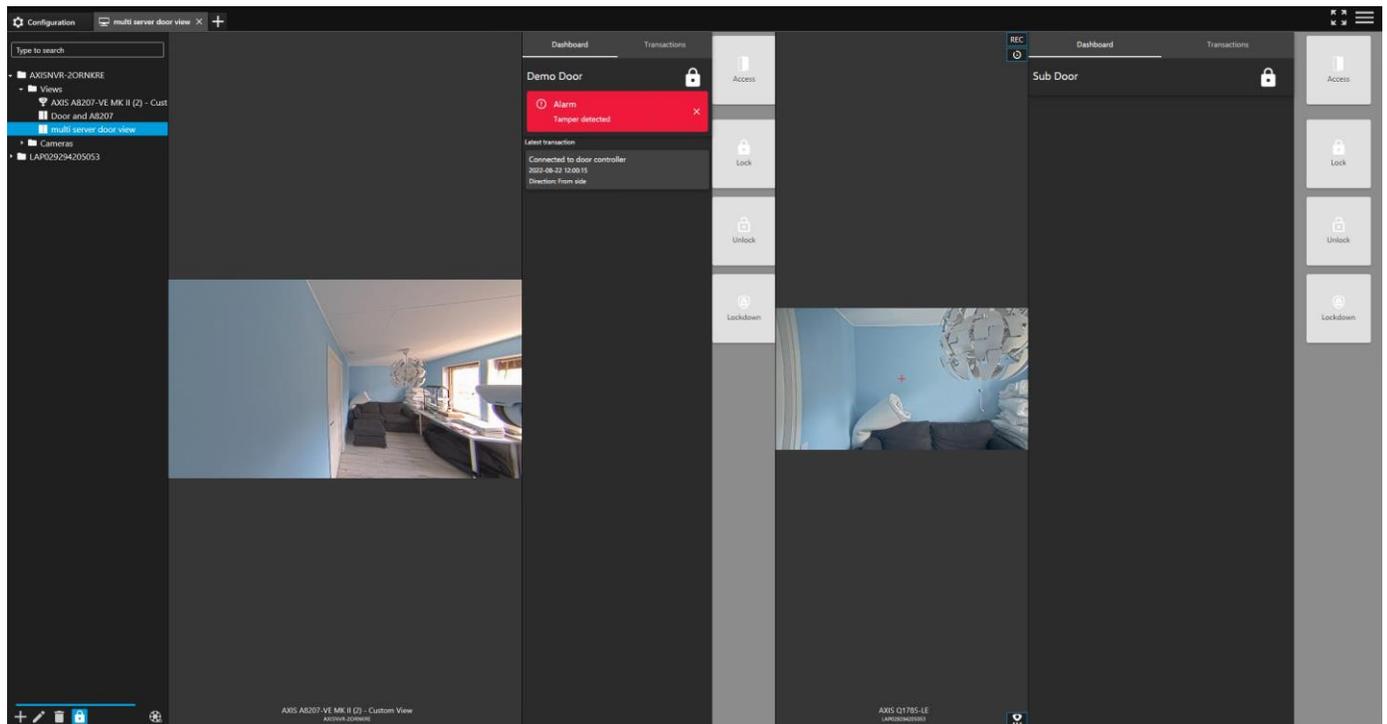
- Create views containing the door dashboards and any cameras you wish to be viewed remotely. Give this a relative name and save the view. Then save the view



- Now from the main server you can see the newly created local/sub server split view in the live view list



- On the main server, note that you can now create a split view contains door dashboards from all connected servers and can pull all into a split view configuration. With this mixed split view configuration, you can do live monitoring as well as control the doors from any remote client.

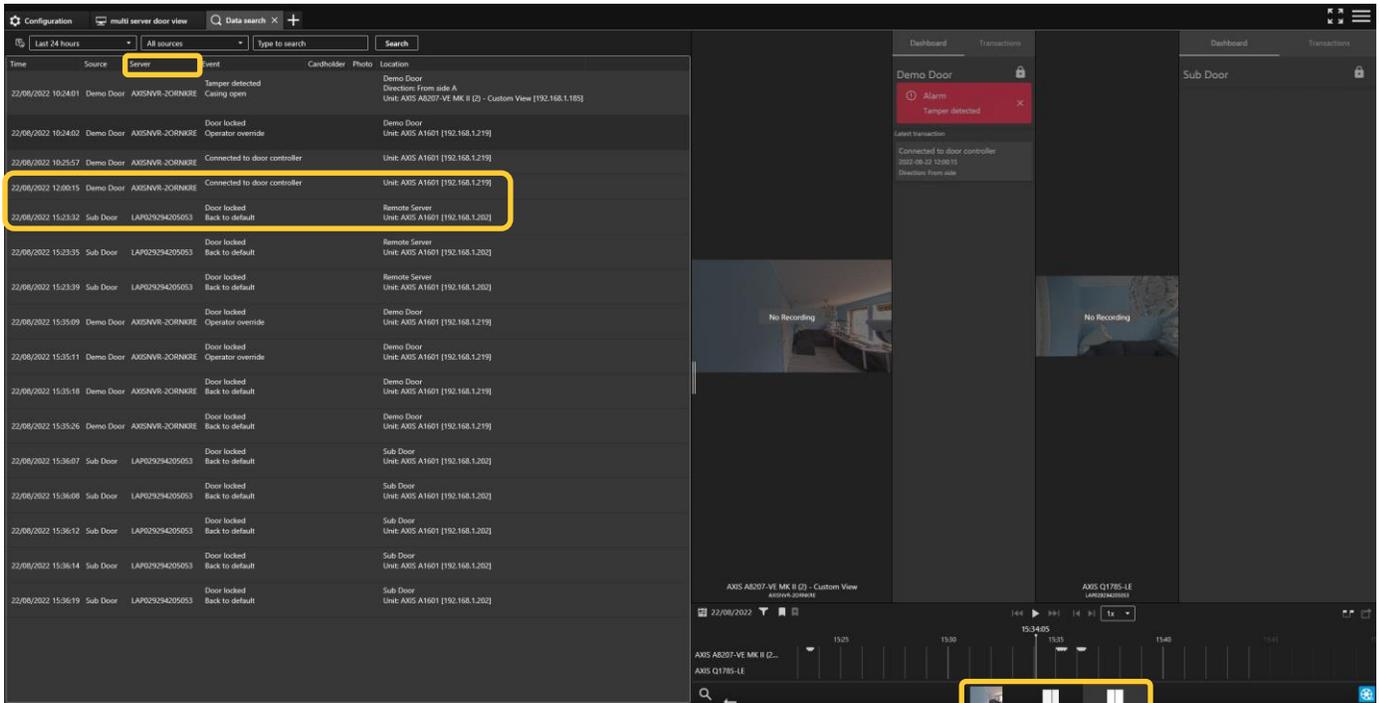


Step 7 – Multi Server investigation

An operator, using AXIS Camera Station Secure Entry, can search through the access control events from all connected sites at the same time and investigate together with video recordings linked to the individual split views.

Investigating an incident in the data search tab

When a client is connected to multiple servers an operator can simply open the Data search tab, in the server column identify the name of the server that is the origin of the event and open the relevant view from under the recordings overview section on the right hand side of the screen



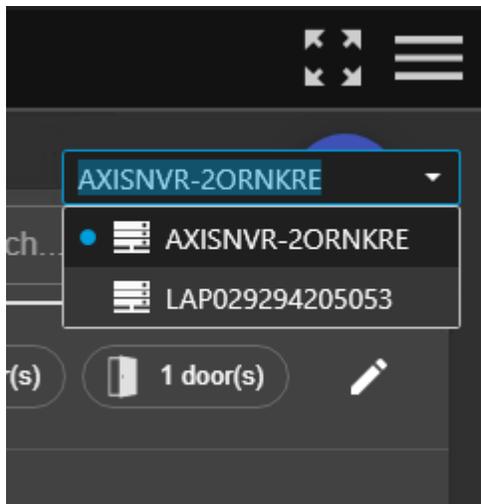
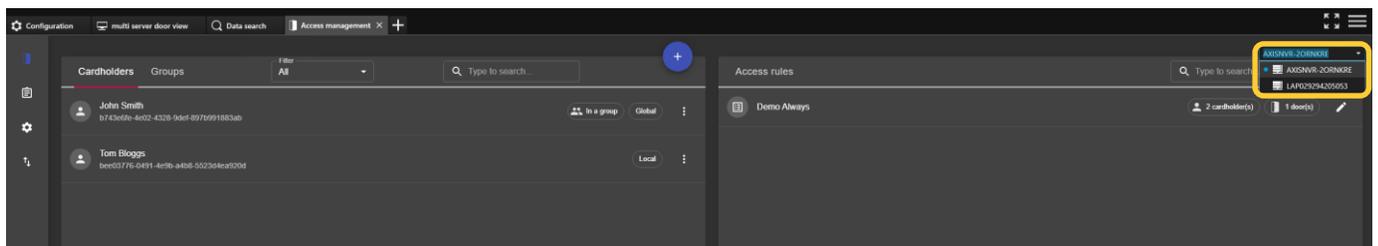
22/08/2022 12:00:15	Demo Door	AXISNVR-2ORNKRE	Connected to door controller	Unit: AXIS A1601 [192.168.1.219]
22/08/2022 15:23:32	Sub Door	LAP029294205053	Door locked Back to default	Remote Server Unit: AXIS A1601 [192.168.1.202]

Step 8 – Multi Server management

An administrator, using AXIS Camera Station Secure Entry, can use Secure Remote Access to manage access control locally at each connected site including management of cardholders and credentials. All access control data is situated on the specific site server and can be shared across sites, either by exporting and importing between sites or adding the relevant cardholders on the sites where they are needed manually.

Managing access on multiple sites

Connected to multiple server each server's access control database is maintained locally, meaning that you can switch to the server you want to configure access control on by using the server drop-down.



Step 9 – Multi Server Configuration

An administrator, using AXIS Camera Station Secure Entry, can use Secure Remote Access to manage system configuration, including access control, locally at each connected site

Considerations and limitations

- Multi server configuration requires to be on the same network
- You can have up to 64 servers connected to the main server
- Ensure that the required ports are opened for communication between the main and sub servers (please check the ACS user manual for required ports)