

AXIS Camera Station Pro Secure Entry

About

Secure Entry is a component of AXIS Camera Station Pro. Use it to add devices and manage schedules. For more information, see the *AXIS Camera Station Pro User Manual*.

Configure access control

If you add an Axis network door controller to your system, you can configure the access control hardware in AXIS Camera Station version 6.x or later.

For a complete workflow to set up Axis network door controller in AXIS Camera Station Pro Secure Entry, see *Set up an Axis network door controller*.

Note

Before you start, do the following:

- Upgrade the controller AXIS OS version under **Configuration > Devices > Management**.
- Set date and time for the controller under **Configuration > Devices > Management**.
- Turn on HTTPS on the controller under **Configuration > Devices > Management**.

Workflow to configure access control

1. To edit the predefined identification profiles or create a new identification profile, see *Identification profiles, on page 20*.
2. To use a custom setup for card formats and PIN length, see *Card formats and PIN, on page 22*.
3. Add a door and apply an identification profile to the door. See *Add a door, on page 7*.
4. Configure the door.
 - *Add a door monitor, on page 13*
 - *Add emergency input, on page 14*
 - *Add a reader, on page 15*
 - *Add a REX device, on page 17*
5. Add a zone and add doors to the zone. See *Add a zone, on page 18*.

Device software compatibility for door controllers

Important

Keep in mind the following when you upgrade the AXIS OS on your door controller:

- **Supported AXIS OS versions:** The supported AXIS OS versions listed below only apply when upgrading from their original recommended AXIS Camera Station Pro version and when the system has a door. If the system doesn't meet these conditions, you must upgrade to the recommended AXIS OS version for the specific AXIS Camera Station Pro version.
- **Minimum supported AXIS OS version:** The oldest installed AXIS OS version in the system determines the minimum supported AXIS OS version, with a limit of two prior versions. Suppose you're using AXIS Camera Station Pro version 6.5 and upgrade all devices to the recommended AXIS OS version 12.0.86.2. Then, AXIS OS version 12.0.86.2 becomes the minimum supported version for your system moving forward.
- **Upgrading beyond recommended AXIS OS version:** Suppose you upgrade to an AXIS OS version above the recommended one for a particular AXIS Camera Station Pro version. Then, you can always downgrade back to the recommended AXIS OS version without any issues, as long as it's within the support limits set for the AXIS Camera Station Pro version.
- **Future AXIS OS recommendations:** Always follow the recommended AXIS OS version for the respective AXIS Camera Station Pro version to ensure system stability and full compatibility.
- **Track change:** Changing firmware tracks between 10.12.xx and 11.0.xx or higher requires a factory default reset.

The table below shows the minimum and recommended AXIS OS version for each AXIS Camera Station Pro version:






AXIS Camera Station version	Minimum AXIS OS version	Recommended AXIS OS version
Pro 6.15	12.5.68.1	12.8.55.1
Pro 6.14	12.5.68.1	12.8.55.1
Pro 6.13	12.5.68.1	12.6.102.1

The table below shows the minimum and recommended AXIS OS version for each AXIS Camera Station 5 version:

AXIS Camera Station version	Recommended AXIS OS version
5.59	12.4.68.1
5.58	12.4.68.1
5.57	11.8.20.2

Doors and zones

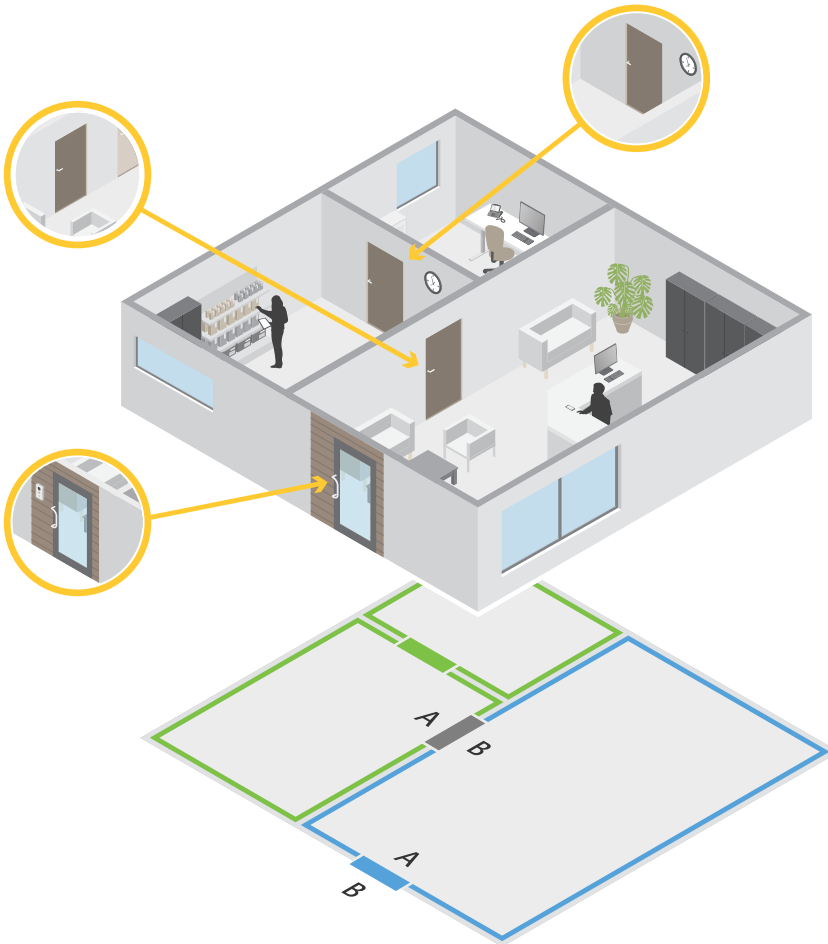
Go to **Configuration > Access control > Doors and zones** to get an overview and configure doors and zones.

 <p>Manual actions</p>	<p>Manually set the state of a door. Select from the following options: Reset (follow system rules), Grant access (unlock door for 7 seconds), Unlock (keep the door unlocked), Lock (keep the door locked), or Lockdown (no one gets in or out).</p>
 <p>Unlock schedules</p>	<p>Set a schedule to automatically unlock doors at specific times. Doors stay locked at all other times. To require the first person to unlock the door manually before the schedule activates, turn on First person in.</p>
 Identification profile	<p>Change identification profile on doors.</p>
 Pin chart	<p>View the controller pin chart associated with a door. If you want to print the pin chart, click Print.</p>
 Secure Channel	<p>Turn on or off OSDP Secure Channel for a specific reader.</p>

Doors	
Name	The name of the door.
Type	The type of door configuration.
Device	The device connected to the door.
IP address	The IP address of the door controller connected to the door.

Side A	The zone that side A of the door is in.
Side B	The zone that side B of the door is in.
Identification profile	The identification profile applied to the door.
Battery	The battery status of the door controller.
Status	<p>The status of the door.</p> <ul style="list-style-type: none"> • Online: The door is online and works correctly. • Reader offline: The reader in the door configuration is offline. • Reader error: The reader in the door configuration doesn't support secure channel or secure channel is turned off for the reader. • Old firmware: The device is running an outdated firmware version. Update the firmware to ensure optimal performance and security.
Zones	
Name	The name of the zone.
Number of doors	The number of doors included in the zone.
Security level	The security level applied to the zone.

Example of doors and zones



- There are two zones: green zone and blue zone.
- There are three doors: green door, blue door, and brown door.
- The green door is an internal door in the green zone.
- The blue door is a perimeter door for the blue zone only.
- The brown door is a perimeter door for both the green zone and blue zone.

Add a door

Note

- You can configure a door controller with one door that has two locks, or two doors that have one lock each. Multi-controllers support additional lock configurations.
- If a door controller has no doors and you're using a new version of AXIS Camera Station Pro Secure Entry with older firmware on the door controller, the system will prevent you from adding a door. However, the system does allow new doors on system controllers with older firmware if there's already an existing door.

Create a new door configuration to add a door:


1. Go to **Configuration > Access control > Doors and zones**.
2. Click **+** **Add door** and select a door type from the drop-down list.

Door types	
Door	A regular door with a door monitor that supports locks and readers. Requires a door controller.
Wireless door	A door you can configure with ASSA ABLOY Aperio® wireless locks and communication hubs. For more information, see <i>Add a wireless lock, on page 11</i> .
Monitoring door	A door that can report whether it's open or closed. For more information, see <i>Add a monitoring door, on page 13</i> .
Provisioned door	A door you can add as a placeholder in the system without the requirement of selecting the hardware for it.
Floor	A door type for elevator control that authenticates access to elevator floors using card readers. For more information, see <i>Add a floor for elevator control BETA, on page 14</i> .


3. Enter a name for the door and select a door controller in the **Device** drop-down menu to associate with the door. The controller grays out when you can't add another door, when it's offline, or HTTPS isn't active.
4. Click **Next** to go to the door configuration page.
5. In the **Primary lock** drop-down menu, select a relay port.
6. To configure two locks on the door, select a relay port from the **Secondary lock** drop-down menu.
7. Select an identification profile. See *Identification profiles, on page 20*.
8. Configure the door settings. See *Door settings, on page 8*.
9. *Add a door monitor, on page 13*
10. *Add emergency input, on page 14*

11. Add a reader, on page 15
12. Add a REX device, on page 17
13. Configure the security level. See *Door security level*, on page 9.
14. Click **Save**.

Copy a door configuration:

1. Go to **Configuration > Access control > Doors and zones**.
2. Click  **Add door**.
3. Enter a name for the door and select a door controller in the **Device** drop-down menu to associate with the door.
4. Click **Next**.
5. In the **Copy configuration** drop-down menu, select an existing door configuration. It shows the connected doors, and the controller grays out if it was configured with two doors or one door with two locks.
6. Change the settings if you want.
7. Click **Save**.

To remove a door:


1. Go to **Configuration > Access control > Doors and zones > Doors**.
2. Select a door in the list.
3. Click  **Remove** and confirm.



Add and configure doors and zones

Door settings

To edit a door:

1. Go to **Configuration > Access control > Door and Zones**.
2. Select the door you want to edit.
3. Click  **Edit**.
4. Change the settings and click **Save**.

<p>Access time (sec)</p>	<p>Set the number of seconds the door remains unlocked after access was granted. The door remains unlocked until the door opens or until the set time ends. The door locks when it closes even if there is access time left.</p>
<p>Open-too-long time (sec)</p>	<p>Only valid if you have configured a door monitor. Set the number of seconds the door stays open. If the door is open when the set time ends, it triggers the door open too long alarm. Set up an action rule to configure which action the open too long event triggers.</p>

Long access time (sec)	Set the number of seconds the door remains unlocked after access was granted. Long access time overrides the access time for cardholders that has this setting turned on.
Long open-too-long time (sec)	Only valid if you have configured a door monitor. Set the number of seconds the door stays open. If the door is open when the set time ends, it triggers the door open-too-long event. Long open-too-long time overrides the already set open-too-long time for cardholders if you turn on the Long access time setting.
Relock delay time (ms)	Set the time, in milliseconds, that the door stays unlocked after the it's opened or closed.
Relock	<ul style="list-style-type: none"> • After opening: Only valid if you added a door monitor. • After closing: Only valid if you added a door monitor.
Door forced	Select whether you want the system to trigger a system alarm when a door has been forced open. Requires a door position sensor (DPS).
Door open too long	Select whether you want the system to trigger a system alarm when a door has been held open too long.

Manual actions

You can perform the following manual actions on doors and zones:

Reset - Returns to the configured system rules.

Grant access - Unlocks a door or zone for 7 seconds and then locks it again.

Unlock - Keeps the door unlocked until you Reset.

Lock - Keeps the door locked until the system grants a cardholder access.

Lockdown - No one gets in or out until you reset or unlock.

To perform a manual action:

1. Go to **Configuration > Access control > Doors and zones**.
2. Select the door or zone you want to perform a manual action on.
3. Click any of the manual actions.

Door security level

You can add the following security features to the door:

Two-person rule - The two-person rule requires two people to use a valid credential to gain access.

Double-swipe - The double-swipe allows a cardholder override the current state of a door. For example, they can use it to lock or unlock a door outside the regular schedule, which is more convenient than going into the system to unlock the door. Double-swipe does not affect an existing schedule. For example, if a door is scheduled to lock at closing time, and employee leaves for lunch break, the door will still lock according to the schedule.


You can configure the security level while you're adding a new door, or you can do it on an existing door.

To add **Two-person rule** to an existing door:

1. Go to **Configuration > Access control > Doors and zones**.
2. Select the door you want to configure a security level for.
3. Click **Edit**.
4. Click **Security level**.
5. Turn on **Two-person rule**.
6. Click **Apply**.

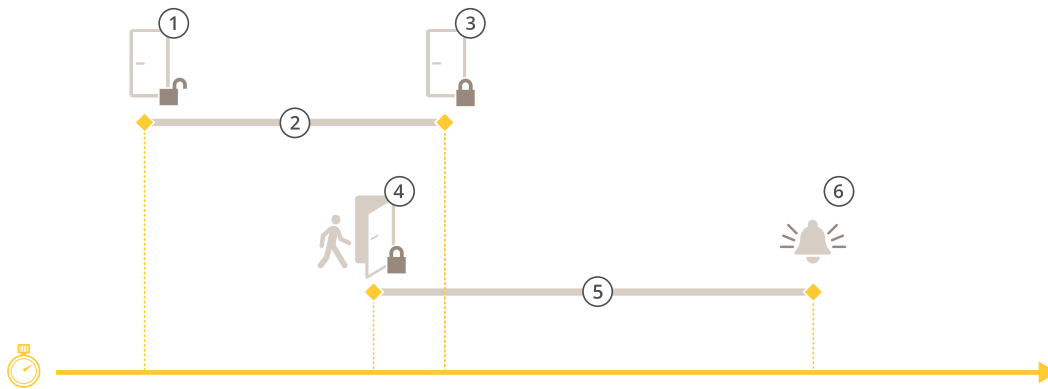
Two-person rule	
Side A and Side B	Select which sides of the door to use the rule on.
Schedules	Select when the rule is active.
Timeout (seconds)	Timeout is the maximum allowed time between card swipes or other type of valid credential.

To add **Double-swipe** to an existing door:

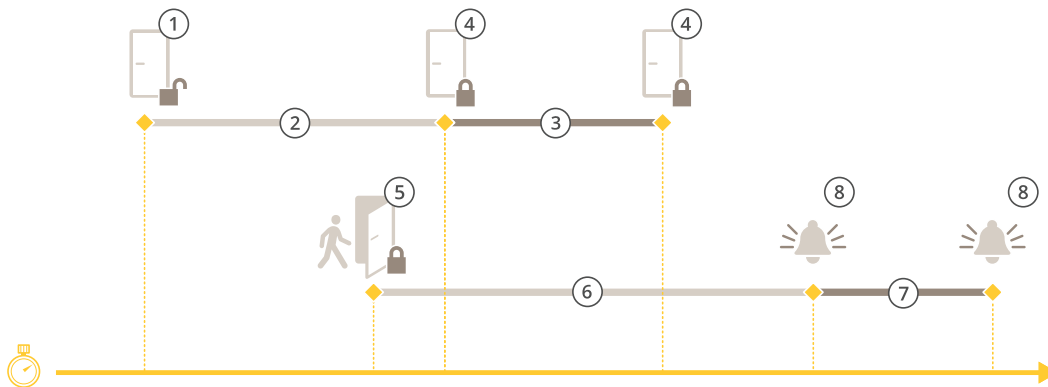
1. Go to **Configuration > Access control > Doors and zones**.
2. Select the door you want to configure a security level for.
3. Click **Edit**.
4. Click **Security level**.
5. Turn on **Double-swipe**.
6. Click **Apply**.
7. Apply **Double-swipe** to a cardholder.
 - 7.1. Open an **Access Management** tab.
 - 7.2. Click  on the cardholder you want to edit and click **Edit**.
 - 7.3. Click **More**.
 - 7.4. Select **Allow double-swipe**.
 - 7.5. Click **Apply**.

Double-swipe	
Timeout (seconds)	Timeout is the maximum allowed time between card swipes or other type of valid credential.

Time options



- 1 Access granted - lock unlocks
- 2 Access time
- 3 No action taken - lock locks
- 4 Action taken (door opened) - lock locks or stays unlocked until door closes
- 5 Open-too-long time
- 6 Open-too-long alarm goes off



- 1 Access granted - lock unlocks
- 2 Access time
- 3 2+3: Long access time
- 4 No action taken - lock locks
- 5 Action taken (door opened) - lock locks or stays unlocked until door closes
- 6 Open-too-long time
- 7 6+7: Long open-too-long time
- 8 Open-too-long alarm goes off



Add a wireless lock

AXIS Camera Station Pro Secure Entry supports the ASSA ABLOY Aperio® wireless locks and communication hubs. The wireless lock connects to the system via an Aperio communication hub connected to the door controller's RS485 connector. You can connect 16 wireless locks to one door controller.



To watch this video, go to the web version of this document.

Note

- The setup requires Axis door controller to have AXIS OS version 11.6.16.1 or later.
 - The setup requires a valid license for AXIS Door Controller Extension.
 - The time on Axis door controller and AXIS Camera Station Pro Secure Entry server must be synchronized.
 - Before you start, use the Aperio application that ASSA ABLOY supports to pair the Aperio locks with the Aperio hub.
 - You can only connect one Aperio communication hub per RS485 connector. Multi-drop is not supported.
 - Wireless locks will not follow unlock schedules when offline.
1. Access the door controller.
 - 1.1. Go to **Configuration > Devices > Other devices**.
 - 1.2. Open the web interface of the door controller connected to the Aperio communication hub.
 2. Turn on AXIS Door Controller Extension.
 - 2.1. In the door controller web interface, go to **Apps**.
 - 2.2. Open AXIS Door Controller Extension context menu .
 - 2.3. Click **Activate license with a key** and select your license.
 - 2.4. Turn on **AXIS Door Controller Extension**.
 3. Connect the wireless lock to the door controller through the communication hub.
 - 3.1. In the door controller web interface, go to **Access control > Wireless locks**.
 - 3.2. Click **Connect communication hub**.
 - 3.3. Enter a name for the hub and click **Connect**.
 - 3.4. Click **Connect wireless lock**.
 - 3.5. Select the lock address and capabilities for the lock you want to add and click **Save**.
 4. Add and configure the door with the wireless lock.
 - 4.1. In AXIS Camera Station Pro Secure Entry, go to **Configuration > Access control > Doors and zones**.
 - 4.2. Click  **Add door**.
 - 4.3. Select the door controller connected to the Aperio communication hub, select **Wireless door** as **Door type**.
 - 4.4. Click **Next**.
 - 4.5. Select your **Wireless lock**.
 - 4.6. Define the door sides A and B, and add sensors. For more information, see *Doors and zones, on page 4*.
 - 4.7. Click **Save**.

Once you've connected the wireless lock you can see its battery level and status in the overview of doors.

Battery level	Action
Good	None
Low	The lock works as intended but you should replace the battery before the battery level becomes critical.
Critical	Replace the battery. The lock might not work as intended.

Lock status	Action
Online	None
Lock jam	Resolve any mechanical issues with the lock.

Add a door monitor

A door monitor is a door position switch that monitors the physical state of a door. You can add a door monitor to your door and configure how to connect the door monitor.

1. Go to the door configuration page. See *Add a door, on page 7*.
2. Under **Sensors**, click **Add**.
3. Select **Door monitor sensor**.
4. Select the I/O port you want to connect the door monitor to.
5. Under **Door open if**, select how the door monitor circuits are connected.
6. To ignore the state changes of the digital input before it enters a new stable state, set a **Debounce time**.
7. To trigger an event when an interruption in the connection between the door controller and the door monitor occurs, turn on **Supervised input**. See *Supervised inputs, on page 20*.

Door open if	
Circuit is open	The door monitor circuit is normally closed. The door monitor sends the door an open signal when the circuit is open. The door monitor sends the door a closed signal when the circuit is closed.
Circuit is closed	The door monitor circuit is normally open. The door monitor sends the door an open signal when the circuit is closed. The door monitor sends the door a closed signal when the circuit is open.

Add a monitoring door

A monitoring door is a door type that can show you if it's open or closed. For example, you can use this on a fire safety door that doesn't require a lock but where you need to know if the door is open.

A monitoring door is different from a regular door with a door monitor. A regular door with a door monitor supports locks and readers but requires a door controller. A monitoring door supports one door position sensor but only requires a network I/O relay module connected to a door controller. You can connect up to five door position sensors to one network I/O relay module.

Note

A monitoring door requires an AXIS A9210 Network I/O Relay Module with the latest firmware including the AXIS Monitoring Door ACAP application.

To set up a monitoring door:

1. Install your AXIS A9210 and upgrade it with the latest version of AXIS OS.
2. Install the door position sensors.
3. In AXIS Camera Station Pro, go to **Configuration > Access control > Doors and zones**.
4. Click **Add door**.
5. Enter a name.
6. Under **Type**, select **Monitoring door**.
7. Under **Device**, select your network I/O relay module.
8. Click **Next**.
9. Under **Sensors**, click **+ Add** and select **Door position sensor**.
10. Select the I/O that's connected to the door position sensor.
11. Click **Add**.

Add a floor for elevator control ^{BETA}

A floor is a door type that you use to control access to elevator floors. When you add a floor, you create an elevator resource that groups all floors for that elevator. Each floor uses a card reader inside the elevator cab to authenticate users before allowing access to that floor.

Before you start, you need:

- A supported network door controller added to your system, such as *A1610*, *A1710-B*, or *A1810-B*.
- An *A9910 I/O Relay Expansion Module* for additional relays. For instructions on how to add your module to a controller, see .

Note

This feature is in Beta and currently supports up to 16 floors and card readers only.

To set up a floor:

1. Go to **Configuration > Access control > Doors and zones**.
2. Click **Add** and select **Floor** ^{BETA}.
3. Enter a name for the floor.
4. Select your controller.
5. Under **Elevator**, select an existing elevator or click **Create new elevator** to add a new one, then enter a name.
6. Under **Side A**, select **Card reader** and configure your reader. **Side B** can't be configured for safety reasons.
7. Click **Save and add new** to add more floors to the same elevator. The elevator and reader configuration remain filled in for the next floor. Note that this option is only available if your controller has relays available.
8. Click **Save** when you've added the floor. Floors appear with the naming convention "Elevator name - Floor name". For example: "West Side - Floor 1"

Note

- Readers used on multiple floors can only be edited on the first floor they were added on.
- Elevators are automatically deleted when all related floors are deleted.

Add emergency input

You can add and configure an emergency input to initiate an action that locks or unlocks the door. You can also configure how to connect the circuit.

1. Go to the door configuration page. See *Add a door, on page 7*.

2. Under **Sensors**, click **Add**.
3. Select **Emergency input**.
4. Under **Emergency state**, select the circuit connection.
5. To ignore the state changes of the digital input before it enters a new stable state, set a **Debounce time (ms)**.
6. Select what **Emergency action** to trigger when the door receives the emergency state signal.

Emergency state	
Circuit is open	The emergency input circuit is normally closed. The emergency input sends an emergency state signal when the circuit is open.
Circuit is closed	The emergency input circuit is normally open. The emergency input sends an emergency state a signal when the circuit is closed.

Emergency action	
Unlock door	The door unlocks when it receives the emergency state signal.
Lock door	The door locks when it receives the emergency state signal.

Add an IP reader

You can use an Axis network intercom or other IP-enabled device as a reader. Before you can assign it to a door, you need to add the device to AXIS Camera Station Pro.

Note

Make sure the IP reader is powered on and connected to the same network as AXIS Camera Station Pro before you start.

1. Go to **Configuration > Devices > Add devices**.
2. Select your IP reader from the list of discovered devices and click **Add**.
3. Enter the device credentials when prompted.

Once the device is added, you can assign it to a door. See *Add a reader, on page 15*.

Add a reader

You can configure a door controller to support multiple wired readers. Choose to add a reader on one side or both sides of a door.

If you apply a custom setup of card formats or PIN length to a reader, you can see it in **Card formats** under **Configuration > Access control > Doors and zones**. See *Doors and zones, on page 4*.

Note

- You can also add up to 16 Bluetooth readers to a door controller. For more information, see *Add a Bluetooth reader, on page 16*.
 - If you use an Axis network intercom as IP reader, the system uses the PIN configuration set on the device webpage.
1. Go to the door configuration page. See *Add a door, on page 7*.
 2. Under one side of the door, click **Add**.
 3. Select **Card reader**.

4. Select the Reader type.
5. To use a custom PIN length setup for this reader.
 - 5.1. Click **Advanced**.
 - 5.2. Turn on **Custom PIN length**.
 - 5.3. Set the **Min PIN length**, **Max PIN length**, and **End of PIN character**.
6. To use a custom card format for this reader.
 - 6.1. Click **Advanced**.
 - 6.2. Turn on **Custom card formats**.
 - 6.3. Select the card formats you want to use for the reader. If a card format with the same bit length is already in use, you must deactivate it first. A warning icon displays in the client when the card format setup is different from the configured system setup.
7. Click **Add**.
8. To add a reader to the other side of the door, do this procedure again.

For information on how install an AXIS Barcode Reader, see *Install AXIS Barcode Reader, on page 25*.

Reader type	
OSDP RS485 half duplex	For RS485 readers, select OSDP RS485 half duplex and a reader port.
Wiegand	For readers that use Wiegand protocols, select Wiegand and a reader port.
IP reader	For IP readers, select IP reader and select a device from the drop-down menu. It's possible to use Axis network intercoms as an IP reader.

Wiegand	
LED control	Select Single wire or Dual wire (R/G) . Readers with dual LED control use different wires for the red and green LEDs.
Tamper alert	Select when the reader tamper input is active. <ul style="list-style-type: none"> • Open circuit: The reader sends the door the tamper signal when the circuit is open. • Closed circuit: The reader sends the door the tamper signal when the circuit is closed.
Tamper debounce time	To ignore the state changes of the reader tamper input before it enters a new stable state, set a Tamper debounce time .
Supervised input	Turn on to trigger an event when there is interruption in the connection between the door controller and the reader. See <i>Supervised inputs, on page 20</i> .

Add a Bluetooth reader

You can use the AXIS A4612 Network Bluetooth Reader to expand the wired door limits of Axis door controllers, which allow up to 16 of these readers to be assigned to their own door. Each reader can manage the door lock, Request-to-Exit (REX), and Door Position Switch (DPS).

Adding and using these readers does not require any additional licensing.

To add an AXIS A4612 Network Bluetooth Reader to a door:

1. Make sure you have paired the AXIS A4612 with the door controller. See *Use AXIS Mobile Credential app as a Bluetooth credential*, on page 17.
2. Go to the door configuration page. See *Add a door*, on page 7.
3. Under one side of the door, click **Add**, then **Card reader**.
4. Select **IP reader** and choose the paired AXIS A4612 from the drop-down menu. If this reader will be used for pairing credentials, mark it for pairing. Click **Add**.
5. In the **Overview** tab, change the identification profile. You can use the profiles **Tap in app** or **Touch reader** if you only have the AXIS A4612 attached to one side of the door and use a REX on the other.

Use AXIS Mobile Credential app as a Bluetooth credential

This example shows how to add an AXIS A4612 Bluetooth Reader to your system to allow cardholders to unlock doors using the AXIS Mobile Credential app.

1. Install the Bluetooth reader and connect it to a door controller.
2. Add the Bluetooth reader in the door controller's web interface.
 - 2.1. Access the door controller and go to **Peripherals > Readers**.
 - 2.2. Click **Add reader**.
 - 2.3. Enter the required information in the **Add Bluetooth reader** dialog.
 - 2.4. Click **Add**.
3. Add the Bluetooth reader to a door in AXIS Camera Station Pro.
 - 3.1. Go to **Configuration > Access control > Doors and zones**.
 - 3.2. Select the door you want to add the Bluetooth reader to and click **Edit**.
 - 3.3. Click **+ Add** on the side of the door where the Bluetooth reader is located.
 - 3.4. Select **Card reader**.
 - 3.5. Under **Add IP reader**, select **IP reader**.
 - 3.6. Under **Select IP reader**, select your Bluetooth reader.
 - 3.7. Click **Add**.
4. Select a Bluetooth reader for pairing. You must do this for at least one Bluetooth reader in your system.
 - 4.1. Select the Bluetooth reader you just added.
 - 4.2. Click **Edit**.
 - 4.3. Under **Edit bluetooth reader**, select **Use this reader for pairing**.
 - 4.4. Click **Apply**.
5. Choose the **Tap in app** or **Touch reader** identification profile. See *Identification profiles*, on page 20 for more information.
6. Add the mobile credential to the cardholder. See *Add credentials*, on page 30.
7. Pair the mobile credential with the pairing reader.
 - 7.1. Bring the cardholder's mobile phone to the pairing enabled Bluetooth reader.
 - 7.2. Follow the instructions provided in the email sent to the cardholder.

Add a REX device

You can select to add a request to exit (REX) device on one side or both sides of the door. A REX device can be a PIR sensor, REX button, or push bar.

1. Go to the door configuration page. See *Add a door*, on page 7.

2. Under one side of the door, click **Add**.
3. Select **REX device**.
4. Select the I/O port that you want to connect the REX device to. If there is only one port available, it will be selected automatically.
5. Select what **Action** to trigger when the door receives the REX signal.
6. Under **REX active**, select the door monitor circuit connection.
7. To ignore the state changes of the digital input before it enters a new stable state, set a **Debounce time (ms)**.
8. To trigger an event when an interruption in the connection between the door controller and the REX device occurs, turn on **Supervised input**. See *Supervised inputs, on page 20*.

Action	
Unlock door	Select to unlock the door when it receives the REX signal.
None	Select if you don't want to trigger any action when the door receives the REX signal.

REX active	
Circuit is open	Select if the REX circuit is normally closed. The REX device sends the signal when the circuit is open.
Circuit is closed	Select if the REX circuit is normally open. The REX device sends the signal when the circuit is closed.

Add a zone

A zone is a specific physical area with a group of doors. You can create zones and add doors to the zones. There are two types of doors:


- **Perimeter door:** Cardholders enter or leave the zone through this door.
- **Internal door:** An internal door within the zone.

Note


A perimeter door can belong to two zones. An internal door can only belong to one zone. See *Example of doors and zones, on page 6* for an overview.

1. Go to **Configuration > Access control > Doors and zones > Zones**.
2. Click **+ Add zone**.
3. Enter a zone name.
4. Click **Add door**.
5. Select the doors you want to add to the zone, and click **Add**.
6. The door is set as a perimeter door by default. To change it, select **Internal door** from the drop-down menu.
7. A perimeter door uses door side A as entrance to the zone by default. To change it, select **Leave** from the drop-down menu.
8. To remove a door from the zone, select it and click **Remove**.
9. Click **Save**.

To edit a zone:

1. Go to **Configuration > Access control > Doors and zones > Zones**.
2. Select a zone in the list.
3. Click  **Edit**.
4. Change the settings and click **Save**.

To remove a zone:

1. Go to **Configuration > Access control > Doors and zones > Zones**.
2. Select a zone in the list.
3. Click  **Remove**.
4. Click **Yes**.

Zone security level

You can add the following security feature to a zone:

Anti-passback – Prevents people from using the same credentials as someone who entered an area before them. It enforces that a person must first exit the area before they can use their credentials again.

Note

- With anti-passback, all doors in the zone must have door position sensors so the system can register that a user opened the door after swiping their card.
- If a door controller goes offline, anti-passback works as long as all doors in the zone belong to the same door controller. However, if the doors in the zone belong to different door controllers that go offline, anti-passback stops working.

You can configure the security level while you add a new zone, or you can do it on an existing zone. To add a security level to an existing zone:

1. Go to **Configuration > Access control > Doors and zones**.
2. Select the zone you want to configure a security level for.
3. Click **Edit**.
4. Click **Security level**.
5. Turn on the security features you want to add to the door.
6. Click **Apply**.

Anti-passback	
Log violation only (Soft)	Use this if you want to allow a second person to enter the door using the same credentials as the first person. This option only results in a system alarm.
Deny access (Hard)	Use this if you want to prevent the second user from entering the door if they're using the same credentials as the first person. This option also results in a system alarm.
Timeout (seconds)	The amount of time until the system allows a user to re-enter. Enter 0 if you don't want timeout, meaning that the zone has anti-passback until the user leaves the zone. Only use 0 timeout with Deny access (Hard) if all doors in the zone have readers on both sides.

Supervised inputs

Supervised inputs can trigger an event when there is interruption in the connection to a door controller.

- Connection between the door controller and the door monitor. See *Add a door monitor*, on page 13.
- Connection between the door controller and the reader that uses Wiegand protocols. See *Add a reader*, on page 15.
- Connection between the door controller and the REX device. See *Add a REX device*, on page 17.

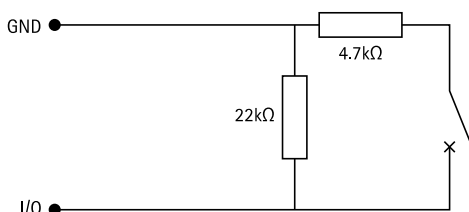
To use supervised inputs:

1. Install end of line resistors as close to the peripheral device as possible according to the connection diagram.
2. Go to the configuration page of a reader, door monitor, or REX device, turn on **Supervised input**.
3. If you followed the parallel first connection diagram, select **Parallel first connection with a 22 K Ω parallel resistor and a 4.7 K Ω serial resistor**.
4. If you followed the serial first connection diagram, select **Serial first connection**, and select a resistor value from the **Resistor values** drop-down menu.

Connection diagrams

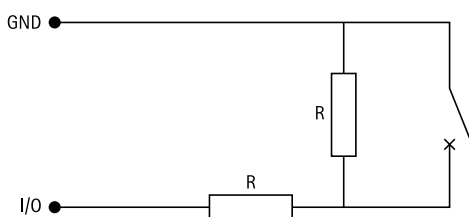
Parallel first connection

The resistor values must be 4.7 k Ω and 22 k Ω .



Serial first connection

The resistor values must be the same and within range 1-10 k Ω .



Identification profiles

An identification profile is a combination of identification types and schedules. You can apply an identification profile to one, or more, doors to set how and when a cardholder can access a door.

Note

You must use dynamic QR and PIN together.

Go to **Configuration > Access control > Identification profiles** to create, edit, or remove identification profiles.

The identification profiles available:

Card – Cardholders must swipe the card to access the door.

Card and PIN – Cardholders must swipe the card and enter the PIN to access the door.

PIN – Cardholders must enter the PIN to access the door.

Card or PIN – Cardholders must swipe the card or enter the PIN to access the door.

QR – Cardholders must show the QR Code® to camera to access the door. You can use the QR identification profile for both static and dynamic QR.

License plate – Cardholders must drive towards the camera in a vehicle with an approved license plate.

Tap in app – Cardholders must tap the credential in the AXIS Camera Station Mobile App while standing in range of the Bluetooth reader.

Touch reader – Cardholders must touch the Bluetooth reader while carrying a mobile phone with a mobile credential.

*QR Code is a registered trademark of Denso Wave Incorporated in Japan and other countries.


Create an identification profile

1. Go to **Configuration > Access control > Identification profiles**.
2. Click **Create identification profile**.
3. Enter a name for the identification profile.
4. Select **Include facility code for card validation** to use facility code as one of the credential validation fields. This field is only available if you turn on **Facility code** under **Access management > Settings**.
5. For Side A, click **+ Add**, select an identification type and a schedule.
 - To require cardholders to use more than one identification type, select multiple types in the same row.
 - To allow cardholders to use either type, click **+ Add** again and add another row.
6. For Side B, click **+ Add**, select an identification type and a schedule.
7. Click **OK**.




Set up identification profiles


Edit an identification profile

1. Go to **Configuration > Access control > Identification profiles**.
2. Select an identification profile and click .
3. To change the identification profile name, enter a new name.
4. Do your edits to the side of the door.
5. To edit the identification profile on the other side of the door, do the previous steps again.
6. Click **OK**.


Edit identification profile	
×	To remove an identification type and the related schedule.
Identification type	To change an identification type, select one, or more, types from the Identification type drop-down menu.

Schedule	To change a schedule, select one, or more, schedules from the Schedule drop-down menu.
 Add	Add an identification type and the related schedule, click Add and set the identification types and schedules.

Remove an identification profile

1. Go to **Configuration > Access control > Identification profiles**.
2. Select an identification profile and click .
3. If the identification profile is used on a door, select another identification profile for the door.
4. Click **OK**.

Reset a predefined card format

1. Go to **Configuration > Access Control > Card formats and PIN**.
2. Click  to reset a card format to the default field map.

Card formats and PIN

A card format defines how a card reader interprets data from a card. There are predefined card formats available to use or edit, and you can also create custom card formats


Go to **Configuration > Access Control > Card formats and PIN** to create, edit, or activate card formats. You can also configure PIN.

The custom card formats can contain the following data fields used for credential validation.

Card number – A subset of the credential binary data encoded as decimal or hexadecimal numbers. Use the card number to identify a specific card or cardholder.

Facility code – A subset of the credential binary data encoded as decimal or hexadecimal numbers. Use the facility code to identify a specific end customer or site.

PIN configuration

1. Go to **Configuration > Access Control > Card formats and PIN**.
2. Under **PIN configuration**, click .
3. Specify **Min PIN length**, **Max PIN length**, and **End of PIN character**.
4. Click **OK**.

Create a card format

1. Go to **Configuration > Access Control > Card formats and PIN**.
2. Click **Add card format**.
3. Enter a card format name.
4. In the **Bit length** field, type a bit length between 1 and 256.
5. Select **Invert bit order** if you want to invert the bit order of the data received from the card reader.
6. Select **Invert byte order** if you want to invert the byte order of the data received from the card reader. This option is only available when you specify a bit length that you can divide by eight.

7. Select and configure the data fields to be active in the card format. Either **Card number** or **Facility code** must be active in the card format.
8. Click **OK**.
9. To activate the card format, select the checkbox in front of the card format name.

Note


- Two card formats with the same bit length can't be active at the same time. For example, if you have defined two 32-bit card formats, only one of these can be active. Deactivate the card format to activate the other.
- You can only activate and deactivate card formats if the door controller has been configured with at least one reader.
- The predefined card formats can be edited but not deleted. To undo any changes to a predefined format, click the reset icon to restore it to its default settings. Card formats you've created can be deleted.

i	Click i to see an example of the output after inverting bit order.
Range	Set the bit range of the data for the data field. The range must be within what you have specified for Bit length .
Output format	Select the output format of the data for the data field. Decimal: Also known as base-10 positional numeral system, consists of the numbers 0–9. Hexadecimal: also known as base-16 positional numeral system, consists of 16 unique symbols: the numbers 0–9 and the letters a–f.
Bit order of subrange	Select the bit order. Little endian: The first bit is the smallest (least significant). Big endian: The first bit is the biggest (most significant).




Set up card formats

Edit a card format

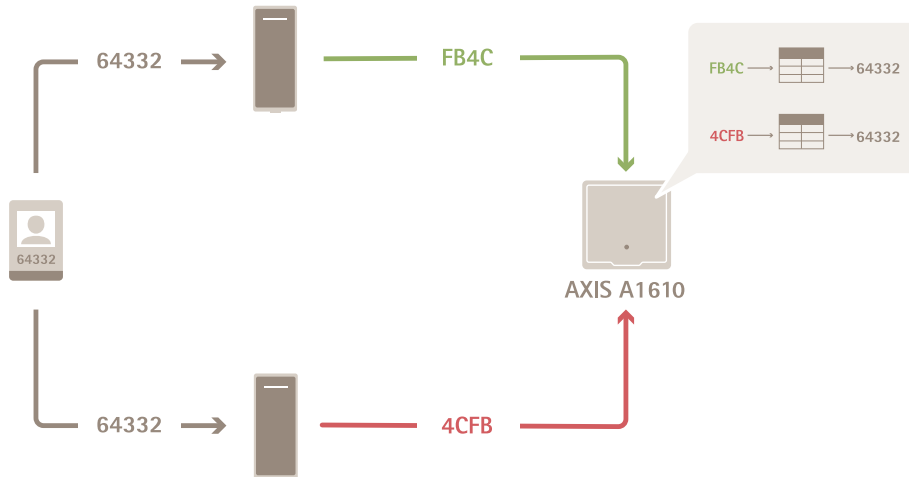
1. Go to **Configuration > Access Control > Card formats and PIN**.
2. Select a card format and click .
3. If you edit a predefined card format, you can only edit **Invert bit order** and **Invert byte order**.
4. Click **OK**.

You can only remove the custom card formats. To remove a custom card format:

1. Go to Configuration > Access Control > Card formats and PIN.
2. Select a custom card format, click  and Yes.

Card format settings

Overview



- The card number in decimal is 64332.
- One reader transfers the card number to hexadecimal number FB4C. The other reader transfers it to hexadecimal number 4CFB.
- AXIS A1610 Network Door Controller receives FB4C and transfers it to decimal number 64332 according to the card format settings on the reader.
- AXIS A1610 Network Door Controller receives 4CFB, changes it to FB4C by inverting byte order, and transfers it to decimal number 64332 according to the card format settings on the reader.

Invert bit order

After inverting bit order, the card data received from the reader is read from right to left bit by bit.

$$64332 = 1111\ 1011\ 0100\ 1100 \longrightarrow 0011\ 0010\ 1101\ 1111 = 13023$$

→ Read from left
Read from right ←

Invert byte order

A group of eight bits is a byte. After inverting byte order, the card data received from the reader is read from right to left byte by byte.

$$64\ 332 = 1111\ 1011\ 0100\ 1100 \longrightarrow 0100\ 1100\ 1111\ 1011 = 19707$$

F B 4 C
4 C F B

26-bit standard Wiegand card format




- 1 *Leading parity*
- 2 *Facility code*
- 3 *Card number*
- 4 *Trailing parity*

Encrypted communication

OSDP Secure Channel

AXIS Camera Station Secure Entry supports OSDP (Open Supervised Device Protocol) Secure Channel to active line encryption between controller and Axis readers.

To turn on OSDP Secure Channel for an entire system:

1. Go to **Configuration > Access control > Encrypted communication**.
2. Enter your main encryption key and click **OK**.
3. Turn on **OSDP Secure Channel**. This option is only available after you enter the main encryption key.
4. By default, the main encryption key generates a OSDP Secure Channel key. To manually set the OSDP Secure Channel key:
 - 4.1. Under **OSDP Secure Channel**, click .
 - 4.2. Clear **Use main encryption key to generate OSDP Secure Channel key**.
 - 4.3. Enter the OSDP Secure Channel key and click **OK**.

To turn on or turn off OSDP Secure Channel for a specific reader, see *Doors and zones*.

Note

If the access control unit, host, or panel supports OSDP secure channel, we recommend that you enforce it on the reader device to increase communication security. To enforce secure channel, activate DIP #6 on the reader device.

The encryption key is transmitted in plain text during initial setup, so all RS485 wiring and devices should be under supervision during this process.

AXIS Barcode Reader




AXIS Barcode Reader is an application that can be installed on Axis cameras. Axis door controller uses the external peripheral authentication key to grant access and authenticate AXIS Barcode Reader and AXIS License Plate Verifier. For a complete workflow to set up AXIS License Plate Verifier in AXIS Camera Station Pro, see .

Install AXIS Barcode Reader

1. Download the application installation file from *axis.com*.
2. Go to the webpage of your Axis intercom or camera.
3. Install the application.
4. Activate the license.
5. Start the application.
6. We recommend changing the following camera setting for better QR accuracy.
 - 6.1. Go to camera settings.

- 6.2. Under **Image > Exposure**, move the **Blur-noise trade-off** slider to the middle.

Configure AXIS Barcode Reader

1. To change the QR identification profile, go to **Configuration > Access control > Identification profiles** and click . See *Identification profiles*.
2. Add a door. See *Add a door*.
3. Select **QR** as the identification profile for this door. See *Door settings*.
4. Add a barcode reader. See *Add a reader*.
 - 4.1. Under one side of the door, click **Add reader**.
 - 4.2. Select **AXIS Barcode Reader** from the **Reader type** drop-down list. Enter a name and click **OK**.
1. To change the QR identification profile, go to **Configuration > Access control > Identification profiles** and click . See *Identification profiles*.
2. Add a door. See *Add a door*.
3. Select **QR** as the identification profile for this door. See *Door settings*.
4. Add a barcode reader. See *Add a reader*.
 - 4.1. Under one side of the door, click **Add reader**.
 - 4.2. Select **AXIS Barcode Reader** from the **Reader type** drop-down list. Enter a name and click **OK**.
1. To change the QR identification profile, go to **Configuration > Access control > Identification profiles** and click . See *Identification profiles*.
2. Add a door. See *Add a door*.
3. Select **QR** as the identification profile for this door. See *Door settings*.
4. Add a barcode reader. See *Add a reader*.
 - 4.1. Under one side of the door, click **Add reader**.
 - 4.2. Select **AXIS Barcode Reader** from the **Reader type** drop-down list. Enter a name and click **OK**.

Create a connection with door controller

1. In AXIS Camera Station Pro Secure Entry:
 - 1.1. Go to **Configuration > Access control > Encrypted communication**.
 - 1.2. Under **External Peripheral Authentication Key**, click **Show authentication key** and **Copy key**.
2. In the device web interface where AXIS Barcode Reader runs:
 - 2.1. Open AXIS Barcode Reader application.
 - 2.2. If the server certificate wasn't configured in AXIS Camera Station Pro Secure Entry, turn on **Ignore server certificate validation**. See *Certificates* for more information.
 - 2.3. If the server certificate wasn't configured in AXIS Camera Station Pro Secure Entry, turn on **Ignore server certificate validation**. See *Certificates* for more information.
 - 2.4. If the server certificate wasn't configured in AXIS Camera Station Pro Secure Entry, turn on **Ignore server certificate validation**. See *Certificates* for more information.
 - 2.5. Turn on **AXIS Camera Station Secure Entry**.
 - 2.6. Click **Add** and enter the IP address of the door controller and paste the authentication key.
 - 2.7. Select the reader that reads barcodes from the door drop-down menu.

Multi server ^{BETA}

The connected sub servers can, with multi-server, use the global cardholders and cardholder groups from the main server.

Note

- One system can support up to 64 sub servers.
- It requires AXIS Camera Station 5.47 or later.
- It requires that the main server and sub servers are on the same network.
- On main server and sub servers, make sure to configure Windows Firewall to allow incoming TCP connections on the Secure Entry port. The default port is 55767. For customized port configuration, see .
- Connecting a sub server to a main server replaces its reader key, making any existing Bluetooth credentials invalid. To avoid this, create Bluetooth credentials on the main server instead of the sub server.

Workflow

1. Configure a server as a sub server and generate the configuration file. See *Generate the configuration file from the sub server, on page 27*.
2. Configure a server as a main server and import the configuration file of the sub servers. See *Import the configuration file to the main server, on page 27*.
3. Configure global cardholders and cardholder groups on the main server. See *Add a cardholder, on page 29* and *Add a group, on page 33*.
4. View and monitor global cardholders and cardholder groups from the sub server. See *Access management, on page 29*.

Generate the configuration file from the sub server

1. From the sub server, go to **Configuration > Access control > Multi server**.
2. Click **Sub server**.
3. Click **Generate**. It generates a configuration file in .json format.
4. Click **Download** and choose a location to save the file.

Import the configuration file to the main server

1. From the main server, go to **Configuration > Access control > Multi server**.
2. Click **Main server**.
3. Click **+ Add** and go to the configuration file generated from the sub server.
4. Enter the server name, IP address, and port number of the sub server.
5. Click **Import** to add the sub server.
6. The status of the sub server shows **Connected**.

Revoke a sub server

You can only revoke a sub server before you import its configuration file to a main server.

1. From the main server, go to **Configuration > Access control > Multi server**.
2. Click **Sub server** and click **Revoke server**.
Now you can configure this server as a main server or sub server.

Remove a sub server

After you import the configuration file of a sub server, it connects the sub server to the main server.

To remove a sub server:

1. From the main server:
 - 1.1. Go to **Access management > Dashboard**.
 - 1.2. Change the global cardholders and groups to local cardholders and groups.
 - 1.3. Go to **Configuration > Access control > Multi server**.
 - 1.4. Click **Main server** to show the sub server list.
 - 1.5. Select the sub server and click **Delete**.
2. From the sub server:
 - Go to **Configuration > Access control > Multi server**.
 - Click **Sub server** and **Revoke server**.

Active directory settings^{BETA}

Note

User accounts in Microsoft Windows and Active Directory users and groups can access AXIS Camera Station Pro Secure Entry. The way you add users in Windows varies depending on your version. For more information, go to support.microsoft.com. Consult your network administrator if you use an Active Directory domain network.

The first time you open the Active Directory settings page you can import Microsoft Active Directory users to cardholders in AXIS Camera Station Pro Secure Entry. See *Import active directory users, on page 28*.

After the initial configuration, the following options appear on the Active directory settings page.

- Create and manage cardholder groups based on groups in Active Directory.
- Set up scheduled synchronization between Active Directory and the access management system.
- Manually synchronize to update all cardholders imported from Active Directory.
- Manage data mapping between user data from Active Directory and cardholder properties.

Import active directory users

To import Active Directory users to cardholders in AXIS Camera Station Pro Secure Entry:

1. Go to **Configuration > Access control > Active directory settings^{BETA}**.
2. Click **Set up import**.
3. Follow the on-screen instructions to complete these three main steps:
 - 3.1. Select a user from Active Directory to use as a template for data mapping.
 - 3.2. Map user data from the Active Directory database to cardholder properties.
 - 3.3. Create a new cardholder group in the access management system and select which Active Directory groups to import.

You can't change any of the imported user data, but you can add credentials to an imported cardholder, see *Add credentials, on page 30*.

Important

If you disable a user in Active Directory, AXIS Camera Station Pro permanently deletes the cardholder and all related data, including their history. This can't be undone. To block a cardholder's access without losing their data, suspend them in AXIS Camera Station Pro instead of disabling them in Active Directory.

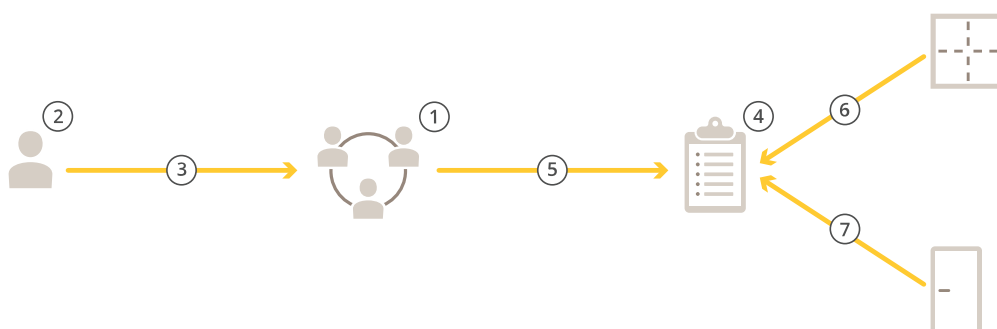
Access management

The Access management tab allows you to configure and manage the system's cardholders, groups, and access rules.

For a complete workflow to set up Axis network door controller in AXIS Camera Station Pro Secure Entry, see *Set up an Axis network door controller*.

Workflow of access management

The access management structure is flexible, which allows you to develop a workflow that suits your needs. The following is a workflow example:




1. Add a group, on page 33.
2. Add a cardholder, on page 29.
3. Add cardholders to groups.
4. Add an access rule, on page 33.
5. Apply groups to access rules.
6. Apply zones to access rules.
7. Apply doors to access rules.

Add a cardholder

A cardholder is a person with a unique ID registered in the system. Configure a cardholder with credentials that identifies the person and when and how to grant the person access to doors.

You can also choose to map users in an Active Directory database as cardholders, see *Active directory settings^{BETA}*, on page 28.

1. Open an  Access management tab.
2. Go to **Cardholder management > Cardholders** and click **+ Add**.
3. Enter the first and last name of the cardholder. Optionally, add more details to the cardholder:
 - In **Email**, enter the cardholder's email address.
 - Under **Groups**, select the groups you want to add the cardholder to.
 - Under **Access rules**, select the access rules you want to apply to the cardholder.
4. To add a photo, click **Cardholder picture** and select:
 - **Upload** to add an image from your device.
 - **Capture** to take a photo directly using your camera.

Note

The image must be a JPG, PNG, or GIF file. Images are automatically resized to a maximum of 700x700 pixels and converted to JPG.

5. Click **Advanced** to configure additional options.
6. Add a credential to the cardholder. See *Add credentials, on page 30*.
7. Click **Save**.
8. To print badges for one or several cardholders, select the cardholder(s) and click **Print Badge**^{BETA}. For more information, see *Print badge*^{BETA}, on page 38.

Use the search field to find a cardholder by first or last name. To filter by source, click **Filter** and select **Local**, **Global**, **AD**, or **Center**.

Advanced	
Long access time	Select to let the cardholder to have long access time and long open-too-long time when there is an installed door monitor.
Suspend cardholder	Select to suspend the cardholder. This will temporarily remove all access from the cardholder.
Allow double swipe	Select to allow a cardholder to override the current state of a door. For example, they can use it to unlock a door outside the regular schedule.
Exempt from lockdown	Select to let the cardholder to have access during lockdown.
Exempt from anti-passback	Select to give a cardholder an exemption from the anti-passback rule. Anti-passback prevents people from using the same credentials as someone who entered an area before them. The first person must first exit the area before their credentials can be used again.
Global cardholder	Select to make it possible to view and monitor the cardholder on the sub servers. This option is only available for cardholders created on the main server. See <i>Multi server</i> ^{BETA} , on page 27.



To watch this video, go to the web version of this document.

Add cardholders and groups

Add credentials

You can add the following types of credentials to a cardholder:

- *QR-code credential, on page 31*
- *PIN credential, on page 31*
- *Mobile credential, on page 31*
- *Card credential, on page 32*

- *License plate credential, on page 32*

Expiration date	
Valid from	Set a date and time for when the credential should be valid.
Valid to	Select an option from the drop-down menu.

Valid to	
No end date	The credential never expires.
Date	Set a date and time when the credential expires.
From first use	Select how long after the first use the credential expires. Select days, months, years, or number of times after the first use.
From last use	Select how long after the last use the credential expire. Select days, months, or years after the last use.

QR-code credential

Note

Using QR-codes as credentials requires that the time on the system controller and the camera with AXIS Barcode Reader is synchronized. We recommend using the same time source for both devices for perfect time synchronization.

To add a QR-code credential to a cardholder:

1. Under **Credentials**, click **+ Add** and select **QR-code**.
2. Enter a name for the credential.
3. **Dynamic QR** is on by default. You must use dynamic QR with PIN credential.
4. Set the start and end date for the credential.
5. To email the QR-code automatically after you save the cardholder, select **Send QR-code to cardholder when credential is saved**.
6. Click **Add**.

PIN credential

To add a PIN credential to a cardholder:

1. Under **Credentials**, click **+ Add** and select **PIN**.
2. Enter a PIN.
3. Optionally, to trigger a silent alarm with a separate PIN, turn on **Duress PIN** and enter a duress PIN.
4. Set the **Valid from** and **Valid to** dates for the credential.
5. Click **Add**.

Mobile credential

Note

The cardholder must have an email address to receive the mobile credential.

To add a mobile credential to a cardholder:

1. Under **Credentials**, click **+ Add** and select **Mobile credential**.
2. Enter a name for the credential.

3. Set the start and end date for the credential.
4. Select **Send the mobile credential to the cardholder after saving**. The cardholder receives an email with instructions for pairing.
5. Click **Add**.

See example in *Use AXIS Mobile Credential app as a Bluetooth credential, on page 17*.

Card credential

To add a card credential to a cardholder:

1. Under **Credentials**, click **+ Add** and select **Card**.
2. To manually enter the card data, enter a card name, card number, and bit length.

Note

Bit length is configurable only when you create a card format with a specific bit length that's not in the system.

3. To automatically get the card data of the last swiped card:
 - 3.1. Select a door from the **Select reader** drop-down menu.
 - 3.2. Swipe the card on the reader connected to that door.
 - 3.3. Click **Get last swiped card data from the door's reader(s)**.

Note

You can use 2N desktop USB card reader to get the card data. For more information, see *Set up 2N desktop USB card reader*.

4. Enter a facility code. This field is only available if you have enabled **Facility code** under **Access management > Settings**.
5. Set the start and end date for the credential.
6. Click **Add**.

License plate credential

To add a license plate credential to a cardholder:

1. Under **Credentials**, click **+ Add** and select **License plate**.
2. Enter a credential name that describes the vehicle.
3. Enter the license plate number for the vehicle.
4. Set the start and end date for the credential.
5. Click **Add**.

Use license plate number as a credential


This example shows you how to use a door controller, a camera with AXIS License Plate Verifier, and a vehicle's license plate number as credentials to grant access.

1. Add the door controller and the camera to AXIS Camera Station Pro Secure Entry. See .
2. Upgrade the firmware on the new devices to the latest available version. See .
3. Add a new door connected to your door controller. See *Add a door, on page 7*.
 - 3.1. Add a reader on **Side A**. See *Add a reader, on page 15*.
 - 3.2. Under **Door settings**, select **AXIS License Plate Verifier** as **Reader type** and enter a name for the reader.
 - 3.3. Optionally, add a reader or REX device on **Side B**.
 - 3.4. Click **Ok**.

4. Install and activate AXIS License Plate Verifier on your camera. See the *AXIS License Plate Verifier* user manual.
5. Start AXIS License Plate Verifier.
6. Configure AXIS License Plate Verifier.
 - 6.1. Go to **Configuration > Access control > Encrypted communication**.
 - 6.2. Under **External Peripheral Authentication Key**, click **Show authentication key** and **Copy key**.
 - 6.3. Open AXIS License Plate Verifier from the camera's web interface.
 - 6.4. Don't do the setup.
 - 6.5. Go to **Settings**.
 - 6.6. Under **Access control**, select **Secure Entry** as **Type**.
 - 6.7. In **IP address**, enter the IP address for the door controller.
 - 6.8. In **Authentication key**, paste the Authentication key that you copied earlier.
 - 6.9. Click **Connect**.
 - 6.10. Under **Door controller name**, select your door controller.
 - 6.11. Under **Reader name**, select the reader you added earlier.
 - 6.12. Turn on integration.
7. Add the cardholder that you want to give access to. See *Add a cardholder*, on page 29
8. Add license plate credentials to the new cardholder. See *Add credentials*, on page 30
9. Add an access rule. See *Add an access rule*, on page 33.
 - 9.1. Add a schedule.
 - 9.2. Add the cardholder that you want to give license plate access to.
 - 9.3. Add the door with the AXIS License Plate Verifier reader.

Add a group

Groups allow you to manage cardholders and their access rules collectively and efficiently.

1. Open an  **Access management** tab.
2. Go to **Cardholder management > Groups** and click **+ Add**.
3. Enter a name and optionally initials for the group.
4. Select **Global group** to make it possible to view and monitor the cardholder on the sub servers. This option is only available for cardholders created on the main server. See *Multi server*^{BETA}, on page 27.
5. Add cardholders to the group:
 - 5.1. Click **+ Add**.
 - 5.2. Select the cardholders you want to add and click **Add**.
6. Click **Save**.
7. To print badges for all cardholders in a group, select the group and click **Print Badge**^{BETA}. For more information, see *Print badge*^{BETA}, on page 38.

Add an access rule

An access rule defines the conditions that must be met to grant access.


An access rule consists of:

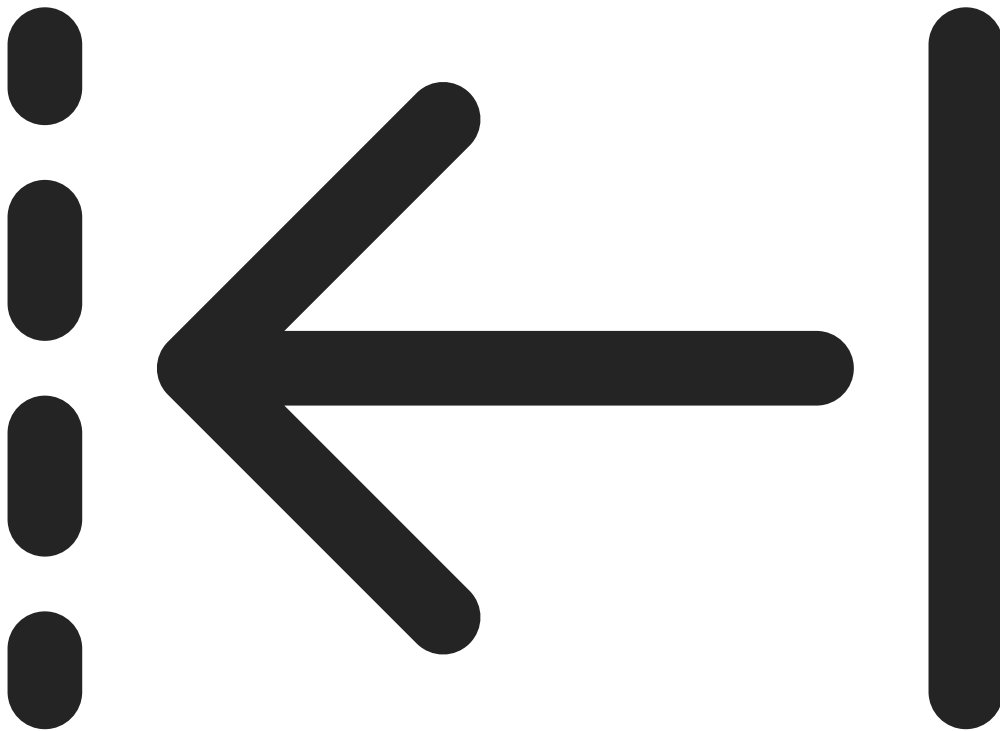
Cardholders and cardholder groups – who to grant access.

Doors and zones – where the access applies.

Schedules – when to grant access.

To add an access rule:

1. Open an  Access management tab.
2. Go to **Cardholder management**.
3. Under **Access rules**



, click **+ Add**.

4. Enter a name for the access rule and click **Next**.
5. Configure the cardholders and groups:
 - 5.1. Under **Cardholders** or **Groups**, click **+ Add**.
 - 5.2. Select the cardholders or groups and click **Add**.
 - 5.3. You can also drag and drop a cardholder or group directly onto an access rule to apply it. When dragging, the access rules you can drop onto are highlighted. If you drag multiple cardholders or groups at once, a count shows how many you're moving.
6. Configure the doors and zones:
 - 6.1. Under **Doors** or **Zones**, click **+ Add**.
 - 6.2. Select the doors or zones and click **Add**.


7. Configure the schedules:
 - 7.1. Under **Schedules**, click **+ Add**.
 - 7.2. Select one or more schedules and click **Add**.
8. Click **Save**.

An access rule that's missing one or more of the components described above is incomplete. You can view all incomplete access rules in the **Incomplete** tab.



Export system configuration reports

You can export reports that contain different types of information about the system. AXIS Camera Station Pro Secure Entry exports the report as a comma-separated value (CSV) file and saves it in the default download folder. To export a report:

1. Open an  **Access management** tab.
2. Go to **Reports > System configuration**.
3. Select the reports you want to export and click **Download**.

Cardholders details report	Includes information about the cardholders, credentials, card validation, and last transaction.
Cardholders access report	Includes the cardholder information and information about the cardholder groups, access rules, doors, and zones related to the cardholder.
Cardholders group access report	Includes the cardholder group name and information about the cardholders, access rules, doors, and zones related to the cardholder group.
Access rule report	Includes the access rule name and information about the cardholders, cardholder groups, doors, and zones related to the access rule.
Door access report	Includes the door name and information about the cardholders, cardholder groups, access rules, and zones related to the door.
Zone access report	Includes the zone name and information about the cardholders, cardholder groups, access rules, and doors related to the zone.


Create cardholder activity reports

A roll call report lists cardholders within a specified zone, helping identify who's present at a given moment.

A mustering report lists cardholders within a specified zone, helping identify who's safe and missing during emergencies. It assists building managers in locating staff and visitors after evacuations. A muster point is a designated reader where personnel report during emergencies, generating a report of people on and off-site. The system marks cardholders as missing until they check in at a muster point or until someone manually marks them as safe.

Both roll call and mustering reports require zones to track cardholders.

To create and run a roll call or mustering report:

1. Open an  Access management tab.
2. Go to **Reports > Cardholder activity**.
3. Click **+ Add** and select **Roll call / Mustering**.
4. Enter a name for the report.
5. Select which zones to include in the report.
6. Select any groups you want to include in the report.
7. If you want a mustering report, select **Mustering point** and a reader for the mustering point.
8. Select a time frame for the report.
9. Click **Save**.
10. Select the report and click **Run**.

Roll call report status	Description
Present	The cardholder entered the specified zone and did not exit before you ran the report.
Not present	The cardholder exited the specified zone and did not enter again before you ran the report.

Mustering report status	Description
Safe	The cardholder swiped their card at the mustering point.
Missing	The cardholder didn't swipe their card at the mustering point.

Import and export

Import cardholders

This option imports cardholders, cardholder groups, credentials, and cardholder photos from a CSV file. To import cardholder photos, make sure that the server has access to the photos.

When you import cardholders the access management system automatically saves the system configuration, including all hardware configuration, and deletes any previously saved one.

You can also choose to map users in an Active Directory database as cardholders, see *Active directory settings^{BETA}*, on page 28.

Import options	
New	This option removes existing cardholders and adds new cardholders.
Update	This option updates the existing cardholders and adds new cardholders.
Add	This option keeps existing cardholders and adds new cardholders. Card numbers and cardholder IDs are unique and can only be used once.

1. On the **Access management** tab, click **Import and export**.
2. Click **Import cardholders**.
3. Select **New, Update, or Add** .
4. Click **Next**.
5. Click **Choose a file** and go to the CSV file. Click **Open**.
6. Enter a column delimiter and select a unique identifier and click **Next**.
7. Assign a heading to each column.
8. Click **Import**.

Import settings	
First row is header	Select if the CSV file contains a column header.
Column delimiter	Enter a column delimiter format for the CSV file.
Unique identifier	The system uses Cardholder ID to identify a cardholder by default. You can also use first and last name, or the email address. The Unique identifier prevents the import of duplicate personnel records.
Card number format	Allow both hexadecimal and number is selected by default.

Export cardholders

This option exports the cardholder data in the system to a CSV file.

1. On the **Access management** tab, click **Import and export**.
2. Click **Export cardholders**.
3. Choose a download location and click **Save**.

AXIS Camera Station Pro Secure Entry updates cardholder photos in C:\ProgramData\Axis Communications\AXIS Camera Station\Components\AXIS Secure Entry\Cardholder photos whenever the configuration changes.

Undo import

The system automatically saves its configuration when you import cardholders. The **Undo import** option resets the cardholder data and all hardware configuration to the state before the last cardholder import.

1. On the **Access management** tab, click **Import and export**.
2. Click **Undo import**.
3. Click **Yes**.

Access management settings

To customize the cardholder fields used in the access management dashboard:

1. On the **Access management** tab, click **Settings > Custom cardholder fields**.
2. Click **+ Add** and enter a name. You can add up to 6 custom fields.
3. Click **Add**.

To use facility code to verify your access control system:

1. On the **Access management** tab, click **Settings > Facility code**.
2. Select **Facility code on**.

Note

You must also select **Include facility code for card validation** when you configure identification profiles. See *Identification profiles, on page 20*.

To edit an email template for sending a QR or mobile credential:

1. On the **Access management** tab, click **Settings > Email templates**.
2. Edit your template and click **Update**.

Badge templates ^{BETA}

You can customize badge templates with cardholder information, photos, logos, and custom branding. To create a new template:

1. Go to **Access management > Settings > Badge templates ^{BETA}**.
2. Click **Create new template**.
3. Enter a name in the **Template name** field.
4. Select **Use as default template for printing** if you want to make this the default template.
5. Customize the badge design:
 - Select up to five text fields to display on the front side, including any custom fields you've created. When printing, only filled-out fields appear on the badge.
 - Choose the font and color for the text.
 - Add a background color or image.
 - Upload a logo for your organization.
 - For the back side, add either a background color or image.
6. Click **Save** to save your changes, or **Save as** to save as a new template.

Note

Once a template is created, it can't be edited, only renamed.

Print badge ^{BETA}

You can print identification badges for cardholders using your configured badge templates. Note that card encoding isn't currently supported. Before you start:

- Make sure the cardholder has at least one card credential. You can't print badges for cardholders without credentials.
- You need a printer that supports CR80 card size and compatible printing material like thick card stock.
- Configure your browser's print settings:
 1. Set page size to CR80 or custom size matching your card dimensions.
 2. Set orientation to portrait.
 3. Turn off margins or set to minimum.

Important

Secure Entry works with printers that have Windows drivers. HID Fargo printer series are verified to work. If you need a driver for your printer, contact your printer supplier.

To print badges:

1. Go to **Access management > Cardholder management > Cardholders**.
2. Select one or more cardholders.
3. Click **Print badge ^{BETA}**.
4. Click **Select template** and from the **Template** dropdown, select the badge template you want to use.

5. If the cardholder has multiple card credentials, select one from the **Card** dropdown.
6. Click **Print**.

Note

If your printer doesn't support duplex printing, print all front pages first, then flip the stack of cards and load them into the tray again to print the back pages.

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