HOW TO.

Configure AXIS A4612 Network Bluetooth Reader and Mobile Credentials in AXIS Camera Station Secure Entry.



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Introduction

This document will show you how to configure the AXIS A4612 Network Bluetooth Reader with a controller and how to configure mobile credentials via AXIS Camera Station Secure Entry.

Prerequisites

AXIS Camera Station 6.3 or later

AXIS Door Controller 11.9.71.11 or later

A4612 Network Bluetooth Reader 2.44.0 or later

IP Utility

AXIS Camera Station device license

Configured SMTP Server in AXIS Camera Station

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 – Adding/updating & setting up devices

Start by adding the controllers to Axis Camera Station and ensuring that they are running the latest firmware. For the controllers used we require the use of HTTPS for end-to-end security, these controllers should also use ACS as an NTP.

To add the Controllers

Follow these steps if you need to add the controllers:

- 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 "Devices" and under this drop-down select "Add Devices"
- 3. On this page if the units are in your network, you should see the controllers, if they are missing then you can try do a manual search via the button "Manual Search". If they still cannot be found, please check the controllers are powered and are on the same network.
- 4. If the controllers are greyed out, this means they require the password for the unit, this is entered by clicking on the "Enter password" under status for the unit.
- 5. Once you see the controllers you wish to add, you can hold down the "ctrl" key and select the controllers, then click add found on the bottom left.
- 6. Follow the pop-up wizard to add these controllers

Add devices	?		×
Choose how to configure your devices			
Quick configuration			
\bigcirc Site Designer configuration			
☑ Use hostnames instead of IP when possible			
Help < Back	Next >	Ca	incel

To update the controllers

Follow these steps to update your devices:

- 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 "Devices" and under this drop-down select "Management"
- 3. From this page hold "ctrl" and select the controllers, once selected press the update firmware button.
- 4. In the popup select the latest firmware, ensure to select the latest Secure Entry track and press "OK"
- 5. The update can be monitored via the "tasks"

			Upgrade Firmware			?	- "	×
Select firmware	versions	for upgrad	e					
Check for Updates	Brow	se			Type to filte	r		
Model	Quantity	Firmware	Upgrade		Туре			
🗸 AXIS A1210	1	11.8.75.6	11.9.71.11 (Secure Entry	•	Standard	•		
🗹 AXIS A1601	1	11.8.75.5	11.9.71.11 (Secure Entry	•	Standard	•		
🗹 AXIS A1610	1	11.9.71.11	11.9.71.11 (Secure Entry	•	Standard	•		
💙 Select / Deselect :	all			Latest	check for updates	: 2024 -1	10-21 16	:12:19
				(Help	ОК	Ca	ncel

To setup the controllers

Follow these steps to setup your controllers:

- 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 "Devices" and under this drop-down select "Management"
- 3. Right click on the controller and select "Security HTTPS Enable/Update"

ľ	Ма	nage de	evic	es	-				
	1 devi	ces, 1 selected	ĽĠ			1			
		Name		MAC address	S	tatus		Address	
		AXIS A1601 SE		ACCC8EB362F8		ок		<u>192.168.1.219</u>	
				Assign IP Address Configure Devices User Management	• •				_
				Security		HTTPS		Enable/Update	
				Upgrade Firmware		IEEE 802.1X		Disable	
				Set Date and Time		Certificates	•		
				Restart Restore to Factory Settings Install Application Collect Device Data Connection	•				
				Reload Tag Devices					

4. This will create a task in the task and alarms, once this has completed, HTTPS is enabled on this device.

Alarms Tasks			
Name	Start	Message	Owner Progress
➡ Enable HTTPS	10/10/2022 09:58:31	Enabling HTTPS	AXISNVR-2ORNKR

5. Next to setup is the time & date on the controller, we do this but right clicking on the device in Devices – Management and selecting "Set Date and Time..."



6. In the pop-up select yes, In the next pop-up under "Time Mode" choose the first option, "Synchronize with server computer time"

Date and Time Settings ? X
Device time 10/10/2022 10:07:18
Time zone
(UTC+01:00) Amsterdam, Berlin, 🔻
Automatically adjust for daylight saving time changes.
Time mode
 Synchronize with server computer time 10/10/2022 10:07:21
O Synchronize with NTP server
192.168.1.194
O Set manually
10/10/2022 10:06:15
Help OK Cancel

7. This will then add a task in the task and alarms, once completed the time will now be synched with the computer server time.

Name	Start	Message	Owner	Progress
➡ Set date and time	10/10/2022 10:08:41	Restarting devices	AXISNVR-20RN	IKR

To setup the A4612 reader

Follow these steps to setup your readers:

1. Using IP Utility, find the A4612 reader on your network and select the IP address hyperlink.

KIS IP Utility		
L.	C ()	
Name	IP address Se	rial number
AXIS A1210	192.168.1.211 B8	3A44F625F7A
AXIS A1601	192.168.1.219 AG	CC8EB362F8
AXIS A1610	192.168.1.208 B8	A44F495455
AXIS A4612	192.168.1.218 56	j-4267-1616

2. In the popup login to the reader for the first time and configure your chosen password.

	Name	IP address	Serial number		Т	4054	AXIS A4612		ENGLISH ~
0	AXIS A1210	192.168.1.211	B8A44F625F7A	\sim					
\Box	AXIS A1601	192.168.1.219	ACCC8EB362F8						
	AXIS A1610	192.168.1.208	B8A44F495455						
	AXIS A4612	192.168.1.218	56-4267-1616						
	Serial number IPv4 IPv4 (link-local) IPv6 IPv6 (link-local) Network connection	56-4267-1616 () 192.168.1.218 () 192.168.1.147 ()						Log in BT Reader 56-4267-1616	
\bigcirc	AXIS A8105-E	192.168.1.240	ACCC8EBDAD45					Password	
\Box	AXIS A8207-VE Mk II	192.168.1.185	ACCC8EBFE51B						
	AXIS A9161	192.168.1.199	B8A44F5CC7C4						
\Box	AXIS A9188/-VE	192.168.1.201	ACCC8EFC82BD						

3. Once logged into the reader, select the menu on the left and go to "system" – "Date & Time" here you can configure the date and time either by syncing with your browser or using an NTP, and set the time zone for the device.

6	Dashboard	Date & Time	
	Customization	Date & Time	
¢	System	Current device time 2024-10-22 12:48:04	NTP settings DISABLED
	Network connection Date & Time	SYNCHRONIZE WITH BROWSER	Use time from NTP or internet NTP server address pool.ntp.org
	Certificates Diagnostics	Time zone	
	Maintenance	Manual settings Manual setecton Custom rule Custom rule UTC0	

4. To upgrade the firmware on the reader, using the left menu select "System" – "Maintenance", from this page you can see the current firmware installed on the reader, to upgrade select "firmware upload"

G B	Dashboard Modules	Maintenance	RESTART DEVICE
6	Customization	Configuration	Firmware
¢	System	DOWNLOAD BACKUP RESTORE CONFIGURATION	Current version 2.44.0.57.3
	Network connection		Minimum firmware version
	Date & Time		Bootloader version
	Certificates		2.0.0.0.7 Software build type
	Diagnostics		release
<u> </u>	Maintenance		Software build date and time Tue, 25 Jun 2024 09:13:11 +0000
			FIRMWARE UPLOAD

5. In the pop-up either select or drag the firmware file and select "Upload"

Firmware upload		×
A4612_ FW.bin	 	•
	CANCEL	UPLOAD

6. The reader will automatically restart after completing the firmware upgrade.

Step 2 – Connecting the A4612 Reader to your controller

These steps will show you how to connect the A4612 reader to your controller.

To connect the devices

Follow these steps to connect the controller and reader:

- 1. In Axis Camera Station open the configuration tab via the "+" symbol found at the top of the screen.
- 2. Select Devices Management and in the list click on the IP/address link on the controller you will connect the reader to.

Configuration × AXIS A1610	+										
Type to search		Manage devic	es								
📽 Devices	^	20 🚣 🕫	0 🖷 🗱	5							
Add devices		1 devices, 0 selected									
Cameras		Name	MAC address	Status	Address	Manufacturer	Model	Firmware	DHCP	HTTPS	Server
Other devices		AXIS A1610	B8A44F495455		<u>axis-b8a44f495455</u>	Axis	AXIS A1610				PCCZC3077HS2
Stream profiles											
Image configuration											
PTZ presets											
Management											
External data sources											
Time synchronization											

3. In the new webpage tab for the controller select "Peripherals" then in the drop down menu select "Readers" then press the "Add Reader" button

Configuration	ment AXIS A1610 × +							
		AXIS A	1610 Network I	Door Controller				
🔁 Status								
琮 Device V		Readers						
Peripherals		+ Add Reader			Sear			Ŧ
Readers								
Wireless locks		Name	Туре	Model	IP address	Serial number	Status	
Upgrade A4X20 readers								
🗩 Apps								
System								
A Maintenance								

4. In the pop-up menu fill in the details such as name, using the dropdown for select reader you can choose the reader you are pairing. If your reader does not show in this list you can manually enter in the IP address of the reader. And then provide the username and password for the reader and click "Add"

Add Bluetooth® reader		
Name		
BT Reader		
Select reader		
192.168.1.218 - 56-4267-1616 - AXIS A4612		-
Or enter IP address		
192.168.1.218		
Username		
admin		
Password		
°		⊚
Ignore server certificate verification		
	Cancel	Add

5. You should now see the reader in the dashboard with the status online.

Readers						
+ Add Reader			Search fo	or name, IP, S/N		Ŧ
Name	Туре	Model	IP address	Serial number	Status	
BT Reader	Bluetooth® reader	AXIS A4612		56-4267-1616	Online	

Step 3 – Configuring SMTP Server

To configure SMTP server

To be able to send out the Bluetooth credentials we need an SMTP (Simple Mail Transfer Protocol) to be configured as this allows AXIS Camera Station to have a chosen mail address to distribute the credentials from, please note that this is not something Axis Communications provides.

Follow these steps to configure SMTP 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 "Server" and under this drop-down select "Settings"
- 3. On this page press "Add.." under "SMTP servers" and in this pop-up fill in your SMTP server details and press "OK"

	Add SMTP Server	?	×
Server			
Address:			
Port:	587		
🗹 Use TLS			
Use authentic	ation		
Username:			
Password:			
Sender			
E-mail address:]
Name:			
	Неір ОК С	ancel	

Step 4 – How to create/edit a schedule

Creating/editing a schedule to use in Secure Entry

These schedules would be used for setting specified time periods for identification profiles and access times for cardholders or door unlock schedules.

Follow these steps to create a schedule:

- 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 "Recording and events" and under this drop-down select "Schedules"
- 3. To edit a schedule, highlight the schedule you wish to edit, if you wish to create a new schedule, press new.
- 4. To edit this schedule hold and drag the cursor along the time for each day that you want the schedule to be running. Blue highlighted will be the active times on each day.
- 5. Once you are happy with your schedule you can provide it with a new name in the name field and click apply.

Schedules		
Schedules		Type to search
Name Used		
Office Hours		
Weekends		
New schedule		
		New Remove
Nat e: Office Hours	Schedule on Schedule off	
Week schedule	Override schedule Add	
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		
Sunday		
Plaid Ctrl to select 5 minute intervals. To copy and puste day schedules, use right click.		

Step 5 – Configuring Bluetooth identification profile

To create the Bluetooth identification profile

If you are wanting a multi-factor authentication or multiple types of credentials (card or Bluetooth) you will need to create a new identification profile.

Follow these steps to create:

- 1. In Axis Camera Station open the configuration tab via the "+" symbol found at the top of the screen.
- 1. From the left menu select "Access control" and under this drop-down select "Identification Profiles"
- 2. On this page "Tap in app" and "Touch Reader" as an identification exists, to create a new identification type select "+ Create identification profile" Alternatively if you wish to add the "tap in app" or "touch Reader" to an existing profile click the edit pencil.
- Give the profile a name and for each side configure the required credentials using the "+ Add" then in the drop-down tick the identification types you wish to be presented to grant access, after select the schedule this applies too. Then select "Ok" in the bottom right.

New identification	profile			
Side A	+ Add			
Configure identification profiles for accessing the door		Identification type		
from side A.		Bluetooth Touch -	Always	
Side B Configure identification	+ Add			
profiles for accessing the door		Identification type	Schedule	
nom ade o.		Bluetooth Touch	Always	
		Static QR		
		License plate number		
		Bluetooth Tap		
		Bluetooth Touch		

To apply the Bluetooth identification profile to door

Follow these steps to apply:

- 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 "Doors and zones
- 3. Highlight the specific door and click "Select identification profile"
- 4. In the pop-up window select the identification profile you wish to use, and click "Apply"

Identification profile >
An identification profile is a combination of identification types and schedules. Administration of the system can apply an identification profile to any door to determine how and when a cardholder is granted access to a door. An identification profile is required on all door configurations.
Select identification profile
Card
Card and PIN
⊖ PIN
Card or PIN
C License plate
Tap in app
Touch reader
O Touch Reader Only

Step 6 – Creating a door with a Bluetooth reader

To create a door/add a bluetooth reader to an existing door

If you have a door already configured in your system and wish to add the bluetooth reader, click on the three dots and select "edit", once on the configuration screen follow from step 5.

Follow these steps to create a door:

- 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 "Doors and zones"



3. On this page press "+ Add door" and in the pop-up give the door a relative name and select the door controller in the second drop down, then press "Next"



- 4. Proceed to configure the locks with the correct relay and door monitors (if used)
- 5. On the side you wish to have the Bluetooth reader select "add" then "Card reader"

Side A	emove		
📧 Card reader			
A REX device			
Barcode reader			
层 License plate reader			

6. In the side menu select "IP reader", using the dropdown box select the A4612 reader you paired. If this will be used for pairing your credentials also mark this reader for pairing. Then click "Add"

Add IP reader	×
Overview Advanced	
Reader type	
OSDP, RS485 half duplex	
O Wiegand	
O IP reader	
BT Reader	\sim
Use this reader for pairing.	

7. In the Overview card change the identification profile, two new profiles have been added for the supported modes for the A4612 reader, "Tap-in-app" and "Touch reader". If you only have the A4612 attached to either side of the door and use a REX on the other. These default profiles can be used.

Overview Door settings	s 🛈		
Device	IP address	Туре	Security levels
AXIS A1610	192.168.1.208	Door	
Name			
BT Door			
Primary lock		Secondary lock	
Relay 1		✓ Not connected	~
Identification profile			
Tap in app			×
Card			
Card and PIN			
PIN			
Card or PIN			
QR			
License plate			
Tap in app			
Touch reader			

Step 7 – Creating and sending the bluetooth credential

To create the Bluetooth credential

Now we can provide the bluetooth credential to either new or existing cardholders.

Follow these steps to create:

- 1. In Axis Camera Station open the configuration tab via the "+" symbol found at the top of the screen. And select "Access management"
- 2. From this page you can either create a new cardholder via the "+Add" button. If you wish to add a Bluetooth credential to an existing cardholder, find them in the cardholder area highlight them and select "edit".
- 3. In the cardholder, fill out the name and email address fields, (the email address is required to be able to send bluetooth credentials to cardholders) then under credentials click the "+Add" and select the mobile credential button.

Cardholders and groups	s > Ashley Rios
Ash I a de	nley Rios _{bcal} Cardholder picture ~
- General 🤹 #	Advanced
Ashley	
Last name	
Rios	
Email ashley.rios@axis.com	



4. Here we give the Bluetooth credential a name and decide the expiration date. Under you can choose if you wish the Bluetooth credential to be emailed directly after adding the adding the user. then ready click "Add" then click "Add" top left.

New mobile credential	×
Credential name	
BT Credential	
Valid from	
2024/12/03	
12:00 AM	~
Valid to	
No end date	<u> </u>
Send the mobile credential to th cardholder after saving.	e

5. If you chose not to directly send the email, highlight the cardholder, and click "edit" next highlight the mobile credential and select edit. And tick the "Send the mobile credential to the cardholder after saving", Click "Apply" then Save"

6. If you wish to change the email message template this can be edited by clicking the settings symbol from the left bar and selecting "Email Templates".



7. In the "Email templates" edit the "mobile credential" template, here you can adjust the default email sent. And click "Update"

Mobile credential	
Subject	
Welcome	
Body	
Welcome to visit us!	
Visiting time is included in the email. *	
Dpdate	

8. Alternatively if you wish to enroll the cardholder directly, this can be done via a PIN, highlight the cardholder and select "Credentials" then "Display pairing PIN".



9. In the popup note the PIN provided and click "Start enrolment"

Mobile credential		×
Pairing PIN		
444325		
	Start enrollment	Cancel

10. Once the cardholder has been created and enrolled, next we need to make sure they are added to the correct group (and) or access rule

Step 8 – Using AXIS Mobile Credential

How to use the AXIS Mobile Credential

To use the Bluetooth credential, the AXIS Mobile Credential app is required.

Follow these steps to configure:

- 1. Open the email you received from the company and follow the steps in the email.
- 2. First you will be required to download the app from either play store (android) or app store (apple).
- 3. Once installed go back to the email and click on the credential link, this will automatically open to the installed app.
- 4. Alternatively, this can direct you to a page on "AXIS.com" to copy your code manually. Then open the app and pair it with Link.



5. Next provide a name to the credential, if you have chosen to pair with PIN, also provide the PIN given from the cardholder enrollment screen. And click "Pair".



6. If you are not at the enrollment reader or wish to enroll later, you can click "Continue later" this will save the credential and can be paired by tapping the card when at the enrollment reader.



7. You will then be presented with a "Pairing successful" screen, click "Done" this will show your credential as a card and ready to be used.



NOTE

If using "touch" the phone must be moving, or an error may occur

Considerations and limitations

- 1. The use of AXIS Door Controllers requires HTTPS to be enabled.
- 2. To be able to send the Bluetooth credential, SMTP must be configured in AXIS Camera Station.
- 3. To be able to use the Bluetooth credential, the receiver is required to download the AXIS Mobile Credential App.
- 4. To enroll Bluetooth credentials, at least one reader must be in pairing mode.