

AxTraxPro[™]

Face Recognition Terminals Hikvision MinMoe Version

Setup Guide



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1. Overview

This document gives the procedure to connect and configure a Hikvision MinMoe Face Recognition Terminal to the AxTraxPro[™] access control management system.

This lets AxTraxPro customers use biometric credentials and the full set of functions of a Hikvision terminal such as:

- · Face and fingerprint enrollment and management
- Device activation
- People management
- Event and alarm receiving
- Mask and hard hat enforcement
- Body temperature detection configuration
- Firmware upgrade

2. Specifications and Requirements

A license is required to use a Hikvision terminal with AxTraxPro.



This Setup Guide is applicable to AxTraxPro version 28.0.2.x and higher.

Before you can connect a Hikvision MinMoe Face Recognition Terminal to AxTraxPro you must install the Hikvision search active device protocol (SADP) software tool on the AxTraxPro server. You can download the Hikvision SADP from the Hikvision website.

Use the SADP tool to search for online devices on the network. After the device is found, you can:

- See device information
- Activate the device
- Edit the network parameters of the device
- Configure other general device parameters

3. Supported terminals

The following table is a list of the Hikvision MinMoe series terminals that are supported by AxTraxPro.

Product Category	Product Model
	DS-K1A340WX
	DS-K1T343MWX
Value Series	DS-K1T341AM
	DS-K1T341CMF
	DS-K1T341AMF
Dro Sorioo	DS-K1T671M
FIO Selles	DS-K1TA70MI-T
Ultra Series	DS-K1T671TM-3XF
Face Recognition Modules for Turnstile	DS-K5671-ZU



For a list of approved FW versions, see the *AxTraxPro Release Notes*.

4. Adding a Terminal

You can add a Hikvision terminal to a network using the **Biometrics** element on the AxTraxPro desktop client Tree View.

A Hikvision terminal can be used to read and transmit credentials or enroll new credentials (face and fingerprint).

The terminals support both TCP/IP and Wiegand protocols.

You can add a Hikvision terminal on a local network and from a remote network.

4.1. On a Local Network

To add a Hikvision terminal on a local network:

- 1. In the Tree View expand the **Biometrics** element.
- 2. Select Terminals.

3. On the toolbar click the 📫 icon.

🖅 Terminal Configuration		>
General		
Description	Terminal 1	
Enabled	\checkmark	
Series Number	Hikvision 🔹	
Model Number	DS-K1TA70MI-T	
Wiegand Format	Wiegand 26 Bits 🔹	nonegos
1:N Matching Threshold	86	
Face Recognition Timeout	3	0
Enable Hard Hat Detection		20:30
Prevent access without face mask		
Thermal Enabled		Sev -
Highest Thermal Threshold	39	
Lowest Thermal Threshold	34.5	38.8°C
Prevent access when Temperature is Abnormal	\checkmark	Abnormal Stranger
Info		ANTUSAN .
Firmware Version		
Serial Number		
AC Reader		
TCP/IP Network		
MAC Address	8	
IP Address	8	Terminal Capacity
Port	\$ 0	Total 6000
	Configuration	Used 0
		OK Cancel

- 4. In **Description** enter a name for the new terminal.
- 5. Select **Enabled** to enable the terminal.
- 6. In Series Number select Hikvision.
- 7. In **Model Number** select the Hikvision terminal model.
- 8. In Wiegand Format select Wiegand 26 Bits or Wiegand 34 Bits (default is Wiegand 26 Bits).
- 9. In **1:N Matching Threshold** enter a **1:N Matching Threshold** detection sensitivity. (Range is 0 to 100, default is 86).
- 10. In **Face Recognition Timeout** enter a **Face Recognition Timeout** in seconds for the time the terminal tries to identify a face (Range is 1 to 10, default is 3).
- 11. Select **Enable Hard Hat Detection** to enable hard hat detection.

12. Select **Prevent access without face mask** to prevent access if the user is not wearing a face mask.



The following thermal parameters are available only for Hikvision models DS-K1TA70MI-T and DS-K1T671TM-3XF.

- 13. Select Thermal Enabled to enable thermal detection.
- 14. In **Highest Thermal Threshold** enter the **Highest Thermal Threshold** detection value in degrees Centigrade for body temperature (default is 39).
- 15. In **Lowest Thermal Threshold** enter the **Lowest Thermal Threshold** detection value in degrees Centigrade for body temperature (default is 34.5).
- 16. Select **Prevent access when Temperature is Abnormal** to prevent access when the body temperature detected in degrees Centigrade is more than the **Highest Thermal Threshold** or less than the **Lowest Thermal Threshold**.



The TCP/IP Network properties cannot be entered manually in this procedure.

17. Click **Configuration** to locate the Hikvision terminal on the local network and to configure the TCP/IP connection, see **Configuring a Terminal**.



The TCP/IP connection can also be configured when importing a terminal file, see **Importing a Terminal File**

18. Click OK.

The window closes and the new terminal appears in the Display Area.

4.2. From a Remote Network

To add a Hikvision terminal from a remote network, you must first export a file from the remote network that contains all the terminal's configuration settings. After you export this file, you can add the Hikvision terminal by importing this file.

4.2.1. Exporting a Terminal File

To export a terminal file:

- 1. In the Tree View expand the **Biometrics** element.
- 2. Select Terminals.

3. On the toolbar click the 📫 icon.

🖅 Terminal Configuration		×
General		
Description	Terminal 1	
Enabled	\checkmark	
Series Number	Hikvision 💌	
Model Number	DS-K1TA70MI-T	
Wiegand Format	Wiegand 26 Bits 🔹	() resultan
1:N Matching Threshold	86	
Face Recognition Timeout	3	0
Enable Hard Hat Detection		20:30
Prevent access without face mask		
Thermal Enabled		G/
Highest Thermal Threshold	39	NT STOR
Lowest Thermal Threshold	34.5	38.8°C
Prevent access when Temperature is Abnormal	\checkmark	Abnarmal Sounger
Info		- MINISTON
Firmware Version		
Serial Number		
AC Reader		
TCP/IP Network]
MAC Address	8	
IP Address	8	Terminal Capacity
Port	\$ 0	Total 6000
	Configuration	Used 0
		OK Cancel

4. Click Configuration.

The **TCP/IP Configuration** window opens and automatically searches for any terminals connected to the network.

TCP/IP Confi	guration						×
Serial Number	MAC Address	IP Address	Model Number	Status		Configuration	Configuration
267020253	98:DF:82:95:67:3F	192.168.20.43	DS-K1TA70MI-T	Available		Configured	IP Address
							192.168.20.43
							Port
							8000 🗘
							Subnet Address
							255.255.255.0
							Gateway Address
							192.168.20.250
							Server IP Address
							Auto Manual
							192.168.20.108
							Apply
Export	Terminals Cou	nt 1			All	▼ Search	OK Cancel

- 5. In **Configuration**:
 - a. Enter the IP Address.
 - b. In Server IP Address click Manual.
 - c. Enter the AxTraxPro Server IP Address.
 - d. Click Apply.
- 6. Click Export.
- 7. In the **Save as** window type a file name and save the file (xxx.axbio) on your PC where it can be easily accessed.



The export function adds "axbio" to the end of file name of the exported file. The import function only executes a file that contains this string at the end of the file name.

4.2.2. Importing a Terminal File

To import a terminal file:

1. In the Tree View expand the **Biometrics** element.

Select Terminals.

2. On the toolbar click the 💠 icon.

3. Browse to the previously exported xxx.axbio file and double-click it.

The window closes and the terminal appears in the Display Area.

4.3. Configuring a Terminal

The Hikvision terminal communicates with the AxTraxPro server with two protocols:

- 1. TCP/IP (either LAN or WAN)
- 2. Wiegand

Each terminal has a unique MAC address and appears separately in the system.

The AxTraxPro server supports multiple terminals per access control network.

To search for a Hikvision terminal:



To find a Hikvision terminal, the Hikvision search active device protocol (SADP) software must be installed on the AxTraxPro desktop client.

- 1. In the Tree View expand the **Biometrics** element.
- 2. Select Terminals.
- 3. On the toolbar click the 📫 icon.

4. Click Configuration.

The **TCP/IP Configuration** window opens and automatically searches for any terminals connected to the network.

TCP/IP Co	nfiguration							×
Serial Numb	er MAC Address	IP Address	Model Number	Status		Configuration	Configuration	
267020253	98:DF:82:95:67:3F	192.168.20.43	DS-K1TA70MI-T	Available		Configured	IP Address	
	·			·			192.168.20.43	
							Port	
							8000 🗘	
							Subnet Address	
							255.255.255.0	
							Gateway Address	
							192.168.20.250	
							Server IP Address	
							Auto Manual	
							192.168.20.108	
							Apply	
Export	Terminals Cou	nt 1			All	▼ Search	OK Cance	el de la companya de

The main window lists all terminals connected to the local network and indicates if they have been previously assigned to a terminal.

To configure a TCP/IP connection for a Hikvision terminal:

Make sure all the Hikvision terminal parameters are set to the factory defaults before the configuration procedure is done. For more information refer to the Hikvision support page.

1. Select the appropriate terminal.

The terminal's parameters are displayed in the **Configuration** area on the right.

- 2. Enter the IP Address.
- 3. Enter the Port.

- 4. Enter the Subnet Address.
- 5. Enter the Gateway Address.
- 6. Click Apply.



Wait for the list to refresh and see that the terminal's status is now **Configured**.

7. Click OK.



The Terminal Configuration window opens.

8. Click OK.

4.4. Mapping a Terminal to a Reader

After you have added a Hikvision terminal to the system, you must map it to a specific reader in order for the system to recognize the terminal.

To map a Hikvision terminal:

- 1. In the Tree View expand the AC Networks element.
- 2. Expand a network.
- 3. Expand a panel.
- 4. Select Readers.

The available readers are listed in the Display Area.

- 5. Select a reader in the Display Area.
- 6. On the toolbar, click the $\boxed{\blacksquare}$ icon.
- 7. Select the **Biometric** check box and select the relevant terminal from the drop down.

Biometrics	
Biometric Terminals	
None	

Biometrics	
Biometric Terminals	
None	7
None	N ²
— Teminal 1	

8. Click **OK** to accept the changes.

When you select the **Terminal** element, you see to which reader the terminal is mapped in the Display Area.

AC Reader				
1\Panel AC-825IP\Reader 1				

4.5. Firmware Update

To update the firmware for a Hikvision terminal, it is necessary to download the new firmware from the Hikvision web site.



For a list of approved FW versions, see the AxTraxPro Release Notes.

To download the firmware:

- 1. Go to https://www.hikvision.com/en/support/download/firmware/.
- 2. Select your device in the list.
- 3. Download the firmware.
- 4. Copy the firmware file to the following directory C:\Program Files (x86)\Rosslare\AxTraxPro Server\Firmware\Bio.

To update the firmware:

- 1. In the tree view expand the **Biometrics** element.
- 2. Select Terminals.
- 3. Select the Hikvision terminal.
- 4. On the toolbar click 🜓 icon.

5. In Firmware Files select the downloaded firmware file.

🗳 Termin	al Firmware Update					×
Model N	umber	DS_K1TA70MI_	т			
Firmwar	e Files	DS_K1TA70MI_T_F	W_v3.2.35.dav			•
				Search		
	Description		Address	Firmware Version	Progress	
• •	Terminal 1		222.222.222.2			<u>^</u>
						Ţ
					Apply	Close

- 6. Select the Hikvision terminal in the list
- 7. Click Apply.
- 8. After the firmware update process is complete, click Close.

5. Enrolling a User's Fingerprint

To enroll a user's fingerprint using a Hikvision terminal:

- 1. Make sure the Hikvision terminal is connected.
- 2. In the Tree View expand the **Users** element.
- 3. Expand the Departments/Users element.
- 4. Select the relevant department.
- 5. Select a user.
- 6. Click the 🗾 icon.
- 7. Click the Credentials tab in the Users Properties window.
- 8. Click Enroll from Fingerprint Terminal.

9. In Enrollment Device select Hikvision terminal.



10. Select the checkbox for the finger that will be enrolled.



- 11. Click Enroll.
- 12. Follow the instructions given in the Hikvision terminal to complete the enrollment.
- 13. Click **OK** in the **Users Properties** window to accept the fingerprint.

6. Enrolling a Face from a Terminal

To enroll a face using a Hikvision terminal:

- 1. Make sure the Hikvision terminal is connected.
- 2. In the Tree View expand the Users element.
- 3. Expand the Departments/Users element.
- 4. Select the relevant department.
- 5. Select a user.
- 6. Click the 🗾 icon.
- 7. Click the Credentials tab in the Users Properties window.
- 8. Click the Enroll from Face Terminal.



- 9. In Terminal select Hikvision terminal.
- 10. In Protocol select Wiegand 26 Bits or Wiegand 34 Bits (default is Wiegand 26 Bits).

11. Click Enroll.

🔯 Face Enrollment		×
)	
Terminal		
Hikvision Terminal	•	Enroll
Protocol		
Wiegand 26 Bits	-	
Info		
Enrollment sta	rted	



An Info box shows the enrollment process.

12. Stand in front of the terminal and wait until your face is identified, then follow the onscreen instructions.



After the face is enrolled, the **Face Enrollment** window shows the user image and a success message is shown in the **Info** box.

13. Click **OK**.

The window closes and the face ID credential appears in the **Credentials** area.

14. Click **OK** in the **Users Properties** window to accept the face credential.

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