

User Guide

Hanwha Techwin Private Root CA Certificate Installation Guide

May 11th 2018



1. Download root CA certificate and check hash value

- 1) Download Hanwha Techwin private root CA certificate zip file (HTW_rootca.zip) from Hanwha Techwin website.
 - Download Path
 - : <u>Hanwha Techwin Website</u> \rightarrow Customer Support \rightarrow Technical Guides
 - \rightarrow <u>Cyber Security</u> \rightarrow Certification
 - \rightarrow "Hanwha Techwin Private Root CA Certificate"

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Certification			^	
Hanwha	Hanwha	Hanwha		
Techwin	Techwin	Techwin		
CMMI Level 3 Certification	ISO/IEC 27001	Hanwha Techwin		
	2013 (ISMS) Certificate	Private Root CA		
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Please use only the root CA certificate that Hanwha Techwin provides through above download path.

2) Unzip the "HTW_rootca.zip" file.

2. Private root CA certificate installation

1) Run the "HTW_rootca.crt" then click "Install Certificate..." in "General" tab.

Certificate 💽
General Details Certification Path
Certificate Information
This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.
Issued to: Hanwha Techwin Private Root CA
Issued by: Hanwha Techwin Private Root CA
Valid from 3/ 25/ 2018 to 3/ 21/ 2038
Install Certificate Issuer Statement Learn more about tertificates OK

- 2) Click "Next" to start the "Certificate Import Wizard."
- 3) Select "Place all certificates in the following store" and click on "Browse..."

Certificate Store
Certificate stores are system areas where certificates are kept.
Windows can automatically select a certificate store, or you can specify a location for the certificate.
Place all certificates in the following store Certificate store:
Learn more about <u>certificate stores</u>
A start > Cancel

4) Select "Trusted Root Certification Authorities" in the "Select Certificate Store" window, then click "OK."

Select Certificate Store
Select the certificate store you want to use.
Show physical stores

5) Check "Trusted Root Certification Authorities" is indicated in the "Certificate store" field, then click "Next."

Certificate Import Wizard
Certificate Store Certificate stores are system areas where certificates are kept.
Windows can automatically select a certificate store, or you can specify a location for the certificate. O Automatically select the certificate store based on the type of certificate O Place all certificates in the following store
Certificate store: Trusted Root Certification Authorities Browse
Learn more about <u>certificate stores</u>
< Back Next > Cancel

6) Check the "Certificate Store Selected by User" field indicates "Trusted Root Certification Authorities" and the "Content" field indicates "Certificate" and click "Finish."



- 7) In the "Security Warning" popup, check the "Thumbprint (sha1)" is indicated as follows :
 - Thumbprint (sha1) : CD28ACD4 F05793EF 43AA524D F30404FD 0B7F3A27



- 8) Click "OK" in "The import was successful." message box.
- 9) Click "OK" in the "Certificate" window to close, then restart web browser.

Certificate
General Details Certification Path
Certificate Information
This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.
Issued to: Hanwha Techwin Private Root CA
Issued by: Hanwha Techwin Private Root CA
Valid from 2017-08-29 to 2037-08-24
Install Certificate Issuer Statement
ОК

In case the hash value is different from the above, DO NOT continue with the installation, as the certificate is NOT a root CA certificate issued by Hanwha Techwin. Please download Hanwha Techwin root CA certificate from website then continue installation again.

3. How to safely connect to the camera using local DNS (for Internet Explorer)

1) Run browser and connect to the camera in https mode.

The local IP address of the camera used in this guide is "192.168.160.34." Access via the IP address that suits your user environment.

2) If "There is a problem with this website's security certificate." Message displayed, ignore the message then click "Continue to this website (not recommend)".



 Click the "Certificate error" message in address bar at the top of the browser window then click "View certificates" at the bottom of the "Untrusted Certificate" message box.



4) Click on "Details" tab in the "Certificate" window.

Certificate
General Details Certification Path
Certificate Information
This certificate is intended for the following purpose(s): • Ensures the identity of a remote computer • Proves your identity to a remote computer
Issued to: 00091830A9A9.hanwha-security.com Issued by: Hanwha Techwin Private Root CA Valid from 4/ 26/ 2018 to 4/ 24/ 2028
Install Certificate Issuer Statement

5) Check that the "Show" field indicates "<All>" and click on the "Subject" field. Copy (Ctrl + C) the string that comes after "CN =" indicated in the box below. (The string is vary by camera's MAC address.)

Certificate	×	
General Details Certification Path		
Show: <ali></ali>	_	
Field	Value	
Valid to	Monday, April 24, 2028 6:59:0 00091830A9A9.hanwha-secur	
	RSA (2048 Bits) Subject Type=End Entity, Pat	
Netscape Cert Type Key Usage Subject Alternative Name	SSL Client Authentication (80) Digital Signature, Non-Repudia DNS Name=*.hanwha.com	
Enhanced Key Lisane	Server Authentication (1-3-6	
CN = 00091830A9A9.hanwha-secu OU = Securicy Device O = Hanwha Techwin C = KR	rity.com	
Edit Properties Copy to File		
	ОК	

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- 6) Click on the Windows "Start" button, enter the below string in the "Search programs and files" field, and press Ctrl + Shift + Enter.
 - notepad C:\Windows\system32\drivers\etc\hosts



7) In the "hosts – Notepad" window, add a string in the following order into the file.

• [Private IP address of camera] [String copied from the certificate]

The below screenshot is an example of a case that the camera has "192.168.160.34" as IP address and "00091830A9A9.hanwha-security.com" and the string (The string that comes after "CN =" in the "Subject" field of the "Certificate" window).



8) Click "Save" under "File" to save the file and close by selecting "Exit.".

- 9) If accessing the camera via the browser address bar, use the string that comes after the "CN =" registered in the local DNS, not the private IP.
 - https:// 00091830A9A9.hanwha-security.com (e.g.)

Anwha Techwin - Windows Internet Explorer		X	
C v kttps://00091830a9a9.hanwha-security.com/		47	×

- 10) Once the setup is complete, the background color of the address bar turns white, meaning it is a safe website. You can also click on the lock icon on the right side of the address bar and check the following message to confirm that the installation was successful.
- 11) Click on "View certificates" to view the "Certificate Information" of the device, which shows that the certificate of the device has changed into a trusted certificate as follows :

Hanwha Techwin - Windows Internet Explorer			
🚱 🔵 🔻 🔊 https://00091830a9a9.hanwha-security.com/wmf/views/login/compatible.htm			
🚖 🖉 Hanwha Techwin	Website Identification		
	Hanwha Techwin Private Root CA has identified this site as:		
	00091830a9a9.hanwha-security.com		
	This connection to the server is encrypted.		
	Should I trust this site?		
	View certificates		
N	ISENET Webview	er	

12) Go to the "Certification Path" tab and select "Hanwha Techwin Private Root CA" to activate the "View Certificate" button. Click on the button to confirm that the root CA certificate has changed into a trusted certificate.

Certificate			×	
General Details	Certification Path			_
Certification particular for the second seco	ath Techwin Private Roo 1830A9A9.hanwha-s	CA security.com		
Certificate statu	c.		<u>V</u> iew Certificate	
This certificate i	s OK.			
Learn more abou	t <u>certification paths</u>			
			ОК	



13) Click "OK" to close the window and finish the installation.



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