



How to configure HTTPS certificate Quick Guide

HIKVISION TECHNICAL SUPPORT TEAM

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How to configure HTTPS certificate

Https protocol is Hyper Text Transfer Protocol over Secure Socket Layer. With this protocol, the data transmitted can be encrypted to enhance security level.

Hikvision products provide self-signed certificate, which means user can use free Https certificate in local area network. Besides, user can install signed certificate or create certificate request.

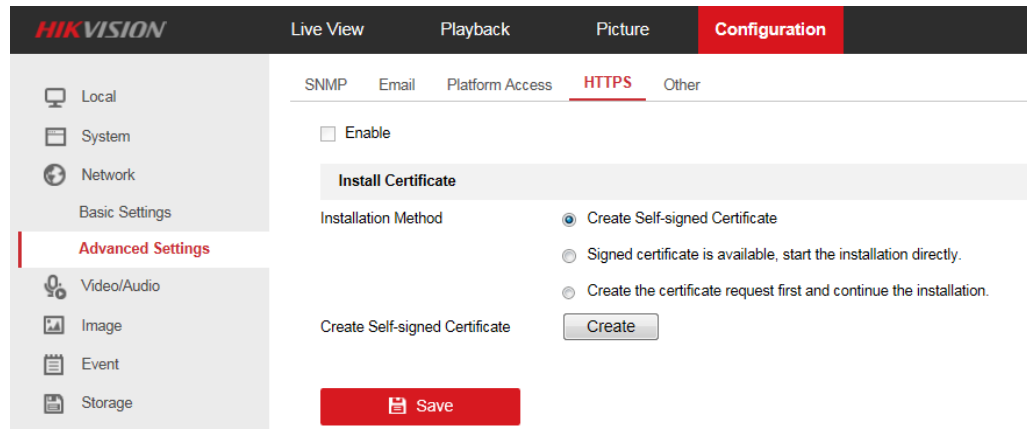
This article shows how to configure Https protocol in 3 ways.

1. Self-signed certificate

Self-signed certificate is Hikvision's private certificate which provides user with secure link to access to device. It's highly recommended to be used in local area network.

Access to the webpage of device (NVR is the sample device in this article), go to

Configuration-Network-Advanced Settings-HTTPS:



Choose **Create Self-signed certificate** and click create, input the basic information and click ok.



Create
✕

Country	CN	* ✓
Hostname/IP	10.9.5.23	* ✓
Validity	7	Day... * ✓
Password	●●●●●●●●	✓
State or province	ZJ	✓
Locality	HZ	✓
Organization	Hikvision	✓
Organizational Unit	Overseas	✓
Email	support@hikvision.com	✓


Check **Enable** and click **Save**, a self-signed certificate will be installed into the device.

Enable

Certificate Details

Installed Certificate	C=CN, ST=ZJ	<input type="button" value="Delete"/>
Property	<pre style="font-family: monospace; font-size: 0.9em; margin: 0;">Subject: C=CN, ST=ZJ Issuer: C=CN, ST=ZJ Validity: 2016-03-11 14:08:06 ~ 2016-03-18 14:08:06</pre>	

The address format of https is **https://IPaddress:Port**, notice that all self-signed certificate will pop out below hint, click **Continue to this website**.



There is a problem with this website's security certificate.

The security certificate presented by this website was not issued by a trusted certificate authority.
 The security certificate presented by this website has expired or is not yet valid.
 The security certificate presented by this website was issued for a different website's address.

Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.

We recommend that you close this webpage and do not continue to this website.

✓ [Click here to close this webpage.](#)

✗ Continue to this website (not recommended).

⌵ [More information](#)



2. Create certificate request

Hikvision products supports quick-export certificate request, you can upload this request to some official certificate authorities.

Enable

Install Certificate

Installation Method

- Create Self-signed Certificate
- Signed certificate is available, start the installation directly.
- Create the certificate request first and continue the installation.

Create Certificate Request No file.

Download Certificate Request

Delete Certificate Request

Install Generated Certificate

Click **Create**, input basic information of certificate, notice that **fixed public IP address or domain** name is required as Hostname/IP.

Notice: Don't input request password for NVR which runs an older firmware version than V3.4.62.

Create

Country * ✓

Hostname/IP * ✓

Password ✓

State or province


Locality


After creating request, download it to PC. This request could be used to apply for official https certificate.

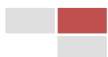
Create Certificate Request C=CN

Download Certificate Request

Delete Certificate Request



 request
File
643 bytes



3. Install signed certificate

After certificate is signed by official authority, user can install it to the device. Notice that the public IP address or domain name must match the device's actual IP address. User can access to device with https link in public network.

Enable

Install Certificate

Installation Method

Create Self-signed Certificate

Signed certificate is available, start the installation directly.

Create the certificate request first and continue the installation.

Install Signed Certificate

Notice:

- (1) Only PEM format certificate is supported;
- (2) NVR can only recognize the certificate which is generated basing on the request exported by itself;
- (3) A new signature is required when user re-uploads the certificate.



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