

Title:	Enabling Secure Socket Layer (SSL) Connection in Plug and Play NVR	Version:	v.3.3.4	Date:	111015US
Product:	Hikvision Plug and Play NVRs			Page:	1 of 4
Action Required:	None, Information Only				

## Introduction

This document explains how to enable a secure socket layer (SSL) connection support in a Hikvision Plug and Play NVR. A secure socket layer connection creates an encrypted communication path between a Web server and a Web browser, allowing for private information to be transmitted without the problems of eavesdropping, data tampering, or message forgery.

## Procedure

- 1. Open NVR's main page in a Web browser.
- 2. In the Configuration tab, under Network > Basic Settings > Port, verify that the default https port is 443.

Configuration X +				
C II G 192.100254.1/000/page/config.sp		_		
HIKVISION	Live View	Playback	Configuration	
Local	General D	DNS Port	NAT	
System	HTTP Port	80		
Network	RTSP Port	10	554	
Basic Settings	HTTPS Port	44	3	
Advanced Settings	Server Port	80	00	
Video/Audio				
Image	E	Save		
Event				
_				

Figure 1 Configuration > Network > Basic Settings > Port

- 3. In the Configuration > Network > Advanced Settings screen, select HTTPS. Note that the Enable selection is deactivated until a certificate is installed. To install a certificate, select the Create Self-signed Certificate radio button under the Installation Method and click on Create.
  - **NOTE:** If a Signed Certificate is available, select the appropriate radio button and follow the instructions.

(*) (iii)	iguration × +			v (
HIP	VISION	Live View	Playback	Configuration
Ţ	Local	SNMP Email	Platform Access	HTTPS Other
	System	Enable		
Ð	Network	Install Certific	ate	
	Basic Settings	Installation Metho	bd	Create Self-signed Certificate
	Advanced Settings			<ul> <li>Signed certificate is available, Start the installation directly.</li> </ul>
<u>ę</u> .	Video/Audio			<ul> <li>Create the certificate request first and continue the installation.</li> </ul>
1	Image	Create Self-signe	d Certificate	Create
Ē	Event			
	Storage	🗎 Si	ave	
6	VCA			

Figure 2 Configuration > Network > Advanced Settings > HTTPS



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4. The certificate Create window will be shown:



Figure 3 Certificate "Create" Window

5. Fill in the fields with the appropriate information, as shown in the example below. Acceptable values for the entries will show a green checkmark. Click on **OK**.

## EXAMPLE:

Create		×
Country	US	• 🕗
Hostname/IP	127.0.0.1	• 📀
Validity	7	Day(s)* 🥑
Password	•••••	0
State or province	CA	0
Locality	City of Industry	
Organization	Hikvision USA Inc	0
Organizational Unit	нц	
Email	training@hikvision.com	0

Country:	Two-letter initials
Hostname/IP:	IP address or server hostname where the certificate is being held. If local to the system, use a localhost address.
Validity:	Number of days the certificate will be valid.
Password:	Used to modify the certificate.
State or Province:	Significant to the Certificate only.
Locality:	Significant to the Certificate only.
Organization:	Significant to the Certificate only.
Organizational Unit:	Significant to the Certificate only.
E-Mail Information:	Significant to the Certificate only.

6. Upon creation of the certificate, its properties will be shown. Save the setting. The Enable selection will be available.



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7. Enable the HTTPS service by marking the Enable box and clicking on Save. A Save Succeeded message will appear.

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H	KVISION	Live View Playback	Configuration		± edmin	<b>Ø</b> Hep	🕒 Logaut
ç	l Local	SNMP Enal Platom Acces	s HTTPS Other				
E	System	Enable					
e	Network	Certificate Details					
	Basic Settings	Installed Certificate	C=US, ST=CA	Delete			
	Advanced Settings	Property	Subject: 0-05, ST-CA				
Ŷ	Video/Audio		Validity: 2015-09-18 21:44:16 ~ 2015-09-25 21:44:16				
E4	Image						
	Event						
E	Storage						
12	VCA						
		🗄 Save					

Figure 4 Configuration > Network > Advanced Settings > HTTPS

Note		
	Save succeeded.	

Figure 5 Save Succeeded Window

- 8. Open a WEB browser and enter the NVR's IP address (e.g., https://<NVR IP address>). A warning message will be shown.
  - NOTE: The warning page shown depends on the Web browser used.



Figure 6 Warning Page

- 9. Click "I Understand the Risks" radio button.
- 10. Click the Add Exception button.



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11. Enter the secure https NVR url as shown below, and click on the Confirm Security Exception button:



Figure 7 Add Security Exception Window

12. You will be shown the NVR's main page over a secure HTTPS connection:



Figure 8 NVR Logon Page

## Questions

Contact techsupport.usa@hikvision.com