

Adding a Self-Signed Web Certificate to the Certificate Store 01/27/2025

Introduction

This guide steps through the process of adding a self-signed web certificate to a Windows computer certificate store. The purpose is to eliminate the security warning, displayed by the web browser, when connected to the device. Once the certificate is installed, it can serve as verification that you are communicating with **your** device and not an impostor device.

The method here will work with any web browser that utilizes the Window's certificate store. This includes Edge, Explorer, and Chrome. Firefox does not utilize the Window's certificate store. The self-signed certificate can be similarly imported into the Firefox certificate store using it's internal certificate manager. However, it will continue to display a security warning although it will no longer ask for an exception.

1: Generate a new web certificate for the unit. Give it a unique name and include the unit's IP address in the certificate. Up to two IP addresses may be added. Submit the form and then activate and store the changes. This will result in another security error from the web browser.

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		B	XT-3305s 01-10-2019 10:36:51			Î
	1	MENU	Generate Web Certificate			
	Quick Se Adminis Admi Acces Web S Gener Passw Uploa Set_O Set_N Remo	tup tration n_Password ss_Control Server Firewall rate_Web_Cert. cord_Rules ad_Banner Clock Name te_Syslog LI_Defaults	Name DCB Tunnel Organization My Company Organizational Unit My Department Country Code US State/Province My State Locality My Town Subject Alternative Name-1 192.168.1.62 Subject Alternative Name-2 Omegan Submit Cancel	Set a unique r for the device Add unit IP a to certificate Second IP ad can also be ac	ddress ddress dress dded.	
	<u>Confi</u> <u>Firm</u>	<u>g rue</u> <u>vare_Upgrade</u> m_Reboot				

2: Export the unit's web certificate to the local computer. Start by viewing the *Site Information*.



4: View detailed information regarding the warning.



4: View the certificate.



5: The certificate can now be exported to the local PC. Make a note of where the certificate was stored on the PC. The *Downloads* folder is the usual location.

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← C ⊗ Not secure	https://192.168.1.62/cgi-bin/menuform.cgi?select=none&form=form_store_config	🔄 🖆 🚥 🧔
← C Not secure MENU Quick Setup Administration Ethernet Tunnel LAN1 (trusted) LAN2 (untrusted) LAN3 (untrusted) Switch Ports	https://192.168.1.62/cgi-bin/menuform.cgi?select=none&form=form_store_config Certificate Viewer: DCB Tunnel General Details Details Select the Details tab. Certificate Hierarchy DCB Tunnel Certificate Fields Certificate Fields	
Serial Tools Status Activate_Changes Store_Configuration Data Comm for Business Inc. 2949 County Road 1000 E Dewey, Il 61840		Voice: 217-897-6600 Email: <u>support@dcbnet.com</u> Web: <u>http://www.dcbnet.com</u>

6: Open the PC's certificate manager.

	Administration DCB Tunnel Ethernet Tunnel LAN1 (trusted) I AN2 (untrusted)	Serial Tools Status Activate_Changes	♥ DCB Tunnel ♥ Certificate Version
Epsil ESP Expr Inne Co	All Apps Documents Settings More Best match Control panel Settings Manage user certificates Manage file encryption certificates Folders (2+) Photos (1+) Documents - This PC (17+)	en the certificate ager Manage computer ce Control panel	M ··· X Algorithm
	🔎 certificate 🛟 Use this search term	H 🌗 😰 🐗 🥥 4	🎍 🛃 🤹 🔹

7: Import a certificate to the *Trusted Root Certifications Authorities*.



8: The *Certificate Import Wizard* will guide you through the process.



9: Locate and choose the certificate we downloaded from the unit.

le to Import		
Specify the file you want to in	nport.	
	Browse and I	ocate previou
File name:	downloaded a	certificate.
C: \Users \mschank \Download	ds\DCB Tunnel.crt	Browse
Microsoft Serialized Certific	cate Store (.SST)	

10: Manually select the *Trusted Root Certification Authorities* store.



11: Finish the import.

			×
÷	基 Certificate Import Wizard		
	Completing the Certifi	icate Import Wizard	
	The certificate will be imported afte	r you click Finish.	
	You have specified the following se	ttings:	
	Certificate Store Selected by User	Trusted Root Certification Authorities	
	File Name	C: \Users \mschank \Downloads \DCB Tunnel.crt	
		Click Finish 🖒 Finish 🤇	ancel

12: The web browser will replace the **Not secure** designation with a padlock icon.



If you have the need to remove or replace a certificate, use the System Certificate Manager to locate the old certificate and to delete it.

👼 certlm - [Certificates - Local Con	nputer\Trusted Root Certification Aut	thorities\Certific	- o >	<
File Action View Help				
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Certificates - Local Computer Certificates - Local Computer Personal Certificates Enterprise Trust Enterprise Trust Intermediate Certification Trusted Publishers Untrusted Certificates Untrusted Certificates Client Authentication Issu Preview Build Roots Preview Build Roots Preview Build Roots Preview Build Roots Preview Build Roots AAD Token Issuer Cher People Cher People Cher People Cher People Coal NonRemovable Cert Trusted Root Certification Authorities Trusted Root Certification Authorities Certification	Issued To AAA Certificate Services AddTrust External CA Root Copen the Trusted Rood Authorities - Certificate Certificate by it's name. Comor Right-click and Copyring (Delete DCB Tunnel DCB Tunnel DCB Tunnel DCB Tunnel DCB Tunnel DCB Tunnel DCB Tunnel Copyring (Delete DCB Tunnel DCB Tunnel Copyring (Delete DCB Tunnel DCB Tunnel Copyring (Delete DCB Tunnel Copyring (Delete DCB Tunnel Copyring (Delete DCB Tunnel Copyring (Delete DCB Tunnel Copyring (Delete Copyring (Delete Copyring (Delete DCB Tunnel Copyring (Delete Copyring (Delete) Copyring (Delete Copyring (Delete) Copyring (Delete	Issued By AAA Certificato AddTrust Exter Certification es. Then loca d select (SA c) 1 en Tasks > 1 t py lete pperties	e Services nal CA Root te the commany Ceruficatio Certification Auth 1997 Microsoft Corp. -6632_41 ed ID Root CA A4096 Root G5 I Root CA I Root G2 I Root G3	~

Firefox notes:

Firefox automatically stores "exceptions" to its certificate store. Once the exception has been added for a site, it will no longer ask for confirmation to continue to a site. However, it will continue to show a padlock with an '!' to indicate an exception has been added fro the site. There is no need to perform the steps shown below as they do not change the behavior of Firefox. These notes are simply reference of how to access the Firefox certificate manager.

Opening the Firefox certificate manager.



HTTPS-Onlv Mode

	X					
Your Certific	ates A	Authentication	n Decisions	People	Servers	Authorities
You have certifi	cates on fil	e that identif	y these certi	ificate author	ities	
Certificate Na	me		Security	Device		E.
~ ACCV						^
ACCVRAI	Z1		Builtin Ob	ject Token		
✓ Actalis S.p.A	./03358520	967				
Actalis Au	uthenticatio	on Root CA	Builtin Ob	ject Token		
✓ AddTrust AE	3					
COMODO) RSA Certi	fication Auth	Software	Security Devi	ce	
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<u>V</u> iew	<u>E</u> dit Tru	st I <u>m</u>	port	E <u>x</u> port	<u>D</u> elete or Dis	strust
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Browse and locate the exported certificate. Use it to identify websites.

		Certificate M	anager		×				
🕹 Downloading Certificate 🛛 🗙									
You have been asked to trust a new Certificate Authority (CA).									
Do you want to trust "DCB Tunnel" for the following purposes? Trust this CA to identify websites. Trust this CA to identify email users.									
Before trusting this	s CA for any purpose, j	you should examin	e its certificate and	its policy and procedures (if availabl	e).				
View Ex	amine CA certificate								
				OK Cancel					
COMODO	COMODO RSA Certification Auth Software Security Device								
<u>V</u> iew	<u>E</u> dit Trust	I <u>m</u> port	E <u>x</u> port	<u>D</u> elete or Distrust					
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Exit the certificate manager.

		Certificate Ma	anager			×
Your Certifica	ates Authent	tication Decision	s People	Servers	Author	ities
You have certifie	cates on file that i	identify these ce	rtificate authori	ities		
Certificate Na	me	Securit	y Device			E.
DCB Tunn	iel 42	Softwar	e Security Devi	ce		^
DCB FT-6	602	Softwar	e Security Devi	ce		
UT-3302 S	Server Tunnel	Softwar	e Security Devi	ce		
DCB Tunn	el	Softwar	e Security Devi	ce		
DCB Tunn	iel XT-6632_41	Softwar	e Security Devi	ce		
XT-hEX-b	adboy	Softwar	e Security Devi	ce		
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<u>V</u> iew	<u>E</u> dit Trust	l <u>m</u> port	E <u>x</u> port	Delete or D	istrust	
		E	xit the certifi	icate manager	⇔	ОК

As always, if you have any problems, phone or email DCB Tech Support.