



# **Smoothwall Certificate Guidance**

A Smoothwall **root and intermediate** certificate must be installed on all devices requiring Internet access. If the Smoothwall certificates are not installed, users will receive an error/warning message similar to the one shown below when accessing content which is decrypted by Smoothwall. **This process is slightly different to previous years when only a root certificate was required.** 

	https://www.facebook.com/	C Waiting for 10.200.23	Smoothwall: Home	🥭 Cei
8	There is a problem connecting securely to	this website.		
	The security certificate presented by this website wa	s not issued by a trusted	certificate authority.	
	Security certificate problems may indicate an attemp server.	t to fool you or intercep	t any data you send to	the
	You should close this webpage.			
	Click here to close this webpage.			

The Smoothwall certificates can be downloaded from the links below. Both certificates are in base64 format which can be opened and installed in most operating systems:

# Schools Smoothwall root certificate 2025 – 2026

https://sccwebassets.blob.core.windows.net/public/schools/smoothwall-2025-2027-root.cer

### Schools Smoothwall intermediate certificate 2025 – 2026

https://sccwebassets.blob.core.windows.net/public/schools/smoothwall-2025-2027-intermediate.cer

Note that the certificate is valid between Jan 2025 – Jan 2027 but due to Christmas we will need to replace again in December 2026. Two years is the maximum validity period recommended and officially supported by Smoothwall.

The following guidance to install the certificate in a Windows environment is provided as a supplement to information on the Smoothwall website.

Further links are available on the <u>Smoothwall site</u> for a variety of different web browsers and operating systems. If you require further assistance with installing the certificate, please contact your IT support company.

The instructions below include steps for:

- Page 2 Installing the root and intermediate certificates on a standalone Windows computer
- Page 11 Deploying the Smoothwall certificate to Windows computers via group policy
- Page 20 Deploying the Smoothwall certificate to Windows computers using certutil dspublish





# Installing the root and intermediate certificates on a standalone Windows computer

Note: the following steps must be performed by a user with Administrative rights, specifically the user must have permissions to add a certificate to the Trusted Root Certification Authorities store.

 Download the Smoothwall root and intermediate certificates and save them to a suitable location. It is recommended that the file names are not changed as the root is required to be installed in the root store and the intermediate in the intermediate store (installing them in the wrong stores may result in SSL errors).

#### 2) Installing the root certificate

a Navigate to the location where you saved the Smoothwall certificates and double-click the **root certificate** to open it.

GR 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: smw-scc-fdc-report	_
Issued by: smw-scc-fdc-report	
Valid from 02/01/2025 to 02/01/2027	
Install Certificate Issuer State	ement
	ОК





# <u>The certificate properties box will be displayed as shown above. Click on Install</u> <u>Certificate to start the Certificate Import Wizard.</u>

÷	Ş	Certificate Import Wizard	×
		Welcome to the Certificate Import Wizard	
		This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.	
		A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.	
		Store Location	
		O Current User	
		Local Machine	
		To continue, click Next.	
		Sext Cancel	

b Select **Local Machine** and Click **Next**. You may need to enter a username and password which has permissions to add a certificate to the local machines certificate store.

	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.
	○ Automatically select the certificate store based on the type of certificate
	Place all certificates in the following store
	Certificate store:
	B <u>r</u> owse

c Choose **Place the certificate in the following store** as shown above, then click **Browse**.





Select Certificate Store	×
Select the certificate store you want to use.	
Personal	•
Trusted Root Certification Authorities	
Enterprise Trust	
Intermediate Certification Authorities	
Intrusted Certificates	Ť
Show physical stores	
OK Cance	1

d Choose the Trusted Root Certification Authorities folder. Click OK.

Ce	rtificate 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.
	○ Automatically select the certificate store based on the type of certificate
	<u> e</u> lace all certificates in the following store
	Certificate store:
	Trusted Root Certification Authorities Browse

e Ensure the Certificate store detailed in the **Completing the Certificate Import Wizard** is set to **Trusted Root Certification Authorities** as shown above, then click **Next**. *If not, click on Browse and review the selection, by repeating step 6. If you do not install the certificate in this certificate store, the Smoothwall Certificate will NOT function correctly.* 

<u>N</u>ext Cancel





S. 2
×
~

🗧 😺 Certificate Import Wizard

#### **Completing the Certificate Import Wizard**

The certificate will be imported after you click Finish.

You have specified the following settin	ngs:
Certificate Store Selected by User	Trusted Root Certification Authorities
Content	Certificate

	<u>F</u> inish	Cancel

- f Click Finish.
- g On some older operating systems you may be prompted by a security warning. Click **Yes** to confirm you wish to install the certificate.
- h Click **OK** to close the Certificate Import Wizard.
- i Click **OK** to close the certificate.

# 3) Installing the intermediate certificate

a Navigate to the location where you saved the Smoothwall certificates and double-click the **intermediate certificate** to open it.





Certif	icate
rierai	Details Certification Path
-	Certificate Information
This	certificate is intended for the following purpose(s):
	Proves your identity to a remote computer     Foreurse, the identity of a remote computer
	Ensures software came from software publisher
	<ul> <li>Protects software from alteration after publication</li> <li>Allows data to be signed with the current time</li> </ul>
	OCSP Signing
	Issued to: smw-scc-fdc-report-01
	Issued by: smw-scc-fdc-report
	Valid from 02/01/2025 to 02/01/2027
	Install Certificate Issuer Statement
	ОК

b The certificate properties box will be displayed as shown above. Click on **Install Certificate** to start the **Certificate Import Wizard**.

 $\sim$ 

Sext Cancel

Welcome to the C	ertificate Import Wizard	
This wizard helps you copy o lists from your disk to a certi	ertificates, certificate trust lists, and certificate ficate store.	e revocation
A certificate, which is issued and contains information us connections. A certificate st	by a certification authority, is a confirmation o d to protect data or to establish secure netwo ore is the system area where certificates are k	of your identity ork ept.
Store Location		
O Current User		
Local Machine		
To continue, dick Next.		

c Select Local Machine and Click Next. You may need to enter a username and password which has permissions to add a certificate to the local machines certificate store.





Ce	rtificate 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.
	○ Automatically select the certificate store based on the type of certificate
	Place all certificates in the following store
	Certificate store:
	Browse

d Choose **Place the certificate in the following store** as shown above, then click **Browse**.

Select Certificate Store					
Select the certificate store you want to use.					
····· Personal	^				
Trusted Root Certification Authorities					
Enterprise Trust					
Intermediate Certification Authorities					
······································					
Intrusted Certificates	×				
< >					
Show physical stores					
OK Cancel					

e Choose the Intermediate Certification Authorities folder. Click OK.

					×
←	Ş	Certificate Import Wizard			
		Completing the Certific	cate Import Wizard		
		The certificate will be imported after	you click Finish.		
		You have specified the following sett	ings:		
		Certificate Store Selected by User Content	Intermediate Certification Authorities Certificate	s	
			Finis	sh Cance	el

f Ensure the Certificate store detailed in **Completing the Certificate Import Wizard** is set to **Intermediate Certification Authorities** as shown above, then click **Next**. *If not,* 





click on **Browse** and review the selection, by repeating step 6. If you do not install the certificate in this certificate store, the Smoothwall Certificate will NOT function correctly.

- g Click Finish.
- h On some older operating systems you may be prompted by a security warning. Click **Yes** to confirm you wish to install the certificate.
- i Click **OK** to close the Certificate Import Wizard.
- j Click **OK** to close the certificate.
- k The certificates will now be installed successfully.

#### 4) Verifying certificates are installed correctly:

a Open certificate management tool by searching for **manage computer certificates** or running **certIm** on a command prompt with administrative privileges.



b Expand the **Trusted Root Certification Authorities** store on the left hand side. Verify the certificate is present as follows. The issued to name should be **smw-scc-fdc-report**.

🚪 certlm - [Certificates - Local Computer\Trust	ed Root Certification Authorities\Certifi	icates]			-		×
File Action View Help							
🗢 🔿 🙍 📊 🦧 🗞 🗙 🗟 🗟 🛛							
Certificates - Local Computer	Issued To	Issued By	Expiration Date	Intended Purposes	Friendly	/ Name	^
Gerificates - Local Computer     Personal     Fusted Root Certification Authorities     Gerificates     G	Issued To GlobalSign GlobalSign Root CA Go Daddy Class 2 Certification Go Daddy Root Certificate Auth Go TE CyberTrust Global Root Hotspot 2.0 Trust Root CA - 03 Global Trust Commercial Root CA 1 SIRG Root X1 Microsoft ECC Product Root Ce Microsoft ECC Product Root Ce Microsoft ECC Product Root Ce Microsoft ECC TS Root Certificat Microsoft Root Authonity Microsoft Root Certificate Auth Microsoft Time Stamp Root Cer	Issued By GlobalSign GlobalSign Root CA Go Daddy Class 2 Certification Au Go Daddy Root Certificate Author GTE CyberTrust Global Root Hotspot 2.0 Trust Root CA - 03 Iden Trust Commercial Root CA 1 ISRG Root X1 Microsoft Authenticode(tm) Root Microsoft ECC Product Root Certi Microsoft ECC Product Root Certi Microsoft Root Certificate Authori Microsoft Root Certificate Authori	Expiration Date 19/01/2038 28/01/2028 29/06/2034 31/12/2037 13/08/2018 08/12/2043 16/01/2034 04/06/2035 31/12/1999 27/02/2043 27/02/2043 27/02/2043 21/02/2043 21/02/2043 21/02/2043 21/02/2043 21/02/2043 21/02/2043 22/03/2036 18/07/2042 22/03/2039	Intended Purposes Client Authentication, Code Signing, Secure Email, Server A Client Authentication, Code Signing, Encrypting File Syste Client Authentication, Code Signing, Secure Email, Server A Client Authentication, Code Signing, Decument Signing, En Client Authentication, Server Authentication Secure Email, Code Signing <all> <all> <all> <all> Client Authentication, Server Authentication &lt;&lt;</all></all></all></all>	Friendly GlobalS GlobalS Go Dad Go Dad DigiCer Hotspo IdenTru ISRG Rc Microso Microso Microso Microso Microso Microso Microso Microso Microso Microso Microso	Name ign ECC ign Root dy Class dy Root t Global t 2.0 True st Common of X1 off Author off ECC F off ECC F off ECC F off ECC T off Root off Root off Root off Root off Root	Ro. t CA 2 C Cer Roc st R. Proc TS R Aut Cer Cer Cer Root Sta.
Certificate Enrolment Requests	NO LIABILITY ACCEPTED, (c)97	NO LIABILITY ACCEPTED, (c)97 Ve	07/01/2004	Time Stamping	VeriSigr	i Time St	tam
Smart Card Trusted Roots     SMS     SPC	QuoVadis Root CA 2 QuoVadis Root CA 2 G3 QuoVadis Root Certification Au	QuoVadis Root CA 2 QuoVadis Root CA 2 G3 QuoVadis Root Certification Auth SecureTrust CA	24/11/2031 12/01/2042 17/03/2021 31/12/2029	Client Authentication, Code Signing, Secure Email, OCSP Si Client Authentication, Code Signing, Secure Email, OCSP Si Client Authentication, Code Signing, Secure Email, Server A Client Authentication, Code Signing, Secure Email Sense A	QuoVac QuoVac QuoVac	lis Root lis Root lis Root	CA: CA: Cert
Trusted Packaged App Installation Autho Trusted Devices	Security Communication Root	Security Communication RootCA2	29/05/2029	Client Authentication, Code Signing, Secure Email, Server A	SECOM	Trust Sv	/ste.
Instea Devices Windows Live ID Token Issuer	smw-scc-fdc-report	smw-scc-fdc-report	02/01/2027	Client Authentication, Server Authentication, OCSP Signing	<none< td=""><td>&gt;</td><td></td></none<>	>	
> iii WindowsServerUpdateServices	Starfield Class 2 Certification A	Starfield Class 2 Certification Auth	29/06/2034	Client Authentication, Code Signing, Secure Email, Server A	Starfield	d Class 2	Cei





c Next expand the **Intermediate Certification Authorities** store on the left hand side. Verify the certificate is present as follows. The issued to name should be **smw-scc-fdc-report-01**.

a certlm - [Certificates - Local Computer\Inter	mediate Certification Authorities\Certi	ficates]			-		×
File Action View Help							
Certificates - Local Computer  Personal  Certificates  Enterprise Trust  Certificates  Certificate Certification Authorities  Certificate Revocation List  Certificate Revocation List  Certificates  Trusted Publishers  Certificates  Trusted Publishers  Trusted Publishers Trusted Publishers  Trusted Publishers  Trusted Publishers  Trusted Publishers  Trusted Publishers  Trusted Publishers  Trusted Publis	Issued To Microsoft Windows Hardware Root Agency smw-scc-fdc-report-01 www.verisign.com/CPS Incorp	Issued By Microsoft Root Authority Root Agency smw-scc-fdc-report Class 3 Public Primary Certificatio	Expiration Date 31/12/2002 31/12/2039 02/01/2027 24/10/2016	Intended Purposes Code Signing, Windows Hardware Driver Verification <all> Code Signing, Time Stamping, OCSP Signing, Client Authe Server Authentication, Client Authentication, 2.16.840.1.113</all>	Friend <none <none <none< td=""><td>ly Name -&gt; -&gt; -&gt;</td><td></td></none<></none </none 	ly Name -> -> ->	

d Next double click the certificate **smw-scc-fdc-report-01** to open it. Click on the Certification Path. You should see the certificate chain as shown below and the certificate status as OK.

🐖 Certificate	×	📃 Certificate	Х
General Details Certification Path		General Details Certification Path	
Certificate Information This certificate is intended for the following purpose(s): Proves your identity to a remote computer Ensures the identity of a remote computer Ensures software form software publisher Protects software form alteration after publication Allows data to be signed with the current time OCSP Signing	-	Certification path	
Issued to: smw-scc-fdc-report-01	-		
Issued by: smw-scc-fdc-report		View Certificate	
Valid from 02/01/2025 to 02/01/2027		Certificate status:	
Issuer Statement		This certificate is OK.	
ОК		ОК	

Note: if the root has not been installed correctly you will observe the following errors.







Certi	ficate		
General	Details	Certification Path	
Certif	ication pa	th	
	smw-scc-	fdc-report-01	
			View Certificate
Certific	ate statu:		
The iss	uer of thi	s certificate could not be four	nd.
			ОК

Alternatively you can also search as follows:

# Click Action > Find Certificates

👼 c	ertlm - [C	ertificate	es - Loca	al Computer]		
File	Action	View	Help			
= 🧇	Co	nnect to	anothe	er computer		
🗊 C	Fin	d Certifi	cates			cal Store Name
	All	Tasks		15	>	ersonal
	Ref	fresh				rusted Root Cert
> 📫	Exp	oort List.				itermediate Cert
× _	He	lp				rusted Publisher:
	📋 Cert	ificates				Untrusted Certific

Enter scc in the contains field and select Find Now:





r.									
	Find Certificates								×
1	File Edit View	Help							
	Find in All certifi	icate store	٩						~
ł	Fin <u>a</u> in:								-
	Con <u>t</u> ains:	SCC							Find Now
1	Look in Field:	Issued By	/					$\sim$	Stop
			, 						New Search
									New Search
						1			
	Issued To		Issued By	Expiration Date	Intended Purposes	Friendly Name	Store Found In		
1	smw-scc-fdc-rep	oort	smw-scc-fdc-report	02/01/2027	Client Authentication,	<none></none>	Trusted Root Certification Authorities		
1	smw-scc-fdc-rep	oort-01	smw-scc-fdc-report	02/01/2027	Code Signing, Time S	<none></none>	Intermediate Certification Authorities		
l									
1									
ļ	<								2
1	2 Certificates Foun	nd							

# Deploying the Smoothwall certificate to Windows computers via group policy

If your school has a Microsoft Windows Server managing your computer accounts, and if an appropriate organisational structure in your Active Directory has been configured, you may be able to deploy the Smoothwall certificates to all Windows computers in your domain using group policy.

For the purposes of this guide, a domain called **School1.local** has been created with an organisational unit structure that contains a top level organisational unit called **School**. Within the **School** organisational unit there are further organisational units for managing either school computers, or school users. These are further broken down into office, student and teacher computer organisational units, and office, student and teacher user organisational units. The student users are further organised into organisational units of **KS1and2**, **KS3and4**, and **KS5and16**.

Prior L.				control total in which controls and
				Active Directory Users and Computers
File Action View Help				
🗢 🔿 🖄 📅 🔏 🖬 🗙 🛙	i @ 🗟 🛛 🖬 🗏 🗞 📁 🔻	2 %		
Active Directory Users and Com	Name	Туре	Description	
Saved Queries	School Computers	Organizational Unit		
⊿ 🟥 School1.local	📓 School Users	Organizational Unit		
Diltin				
Computers				
Domain Controllers				
ForeignSecurityPrincipal:				
Managed Service Accourt				
⊿ 📄 School				
⊿ School Computers				
▷ I Office				
Students				
▶ I Teachers				
⊿ School Users				
Diffice				
⊿ i Students				
KSland2				
KSSand4				
p 🔤 KSJando				
p in Teachers				
p 🔤 Oseis				

The following guidance is provided as a supplement to the guidance on the Smoothwall website and has been tested on Windows computers using Internet Explorer 11.





NOTE: This guide was conducted on a server running Microsoft Windows Server 2012 R2, thus some of the screenshot images in this guide may differ from what you see on your server.

- 1) Download the Smoothwall certificate and save it to a suitable location.
- 2) Open the **Group Management Console** on your server. You can search for this if required, as shown below.
- 3) The Group Management Console will be displayed, as shown below.

<u>R</u>		Group Policy Management
📓 File Action View Windo	ow Help	
Group Policy Management	Contents	
	Name	

4) If required, click the arrow next to the Forest in the left-hand pane, so that it expands as shown below. Our primary organisational unit is called **School**, so we've selected and expanded that, so you can see the organisational units beneath.







				Group Policy Management				- 0
Action View Window Hel	le							
	1 m							
Policy Management		School Computers						
t: School 1. rocal		Linked Group Policy Object	ta Group Policy Inheritance Delegation					
Schoel1.local		Link Örder	GPO	Enforced Link Enabled	GPO Status	WMI Fiter	Modified	Domain
Default Domain Policy		22						
School		~						
a 🗾 School Compute	0 1 000 11 1	10 V 1						
a Coffice	Create a GPO in this domai	n, and Link Enere						
> 1 Teachers	Block Inheritance							
a 💼 School Users	Group Policy Update							
a 🚊 Office	Group Policy Modeling Wa	card						
a 📰 Students	New Organizational Unit							
a 📃 KS1and2	View							
KSland4	New Window from Here							
p 🛋 KS5and6	Delete							
F 2 Teachers	Rename							
WMI Filters	Refresh							
Starter GPOs	Properties							
Party Mandalan	Help							
							tivate Windows	rtivate Windows
		<						
in this domain and link it to th	his container							

5) As the certificate will be required on all computers, it should be applied to computer organisational units, rather than user organisational units. In this example, we'll create a GPO (Group Policy Object) which will be used to apply the certificate to the School Computers organisational unit. Right-click the School Computers organisational unit and choose Create a GPO in this domain, and Link it here...

	New GPO	x
Name: Smoothwall Certificate Source Starter GPO:		
(none)		Ŷ
	ОК	Cancel

6) A New GPO box will appear. Type a name for the GPO, for example Smoothwall Certificate as shown above, then click OK. The new policy will appear under the School Computers organisational unit as shown below.

				Group Policy Management	
📓 File Action View Window Help					
* * 2 🖬 🗙 🙆 📓 🖬					
Group Policy Management ▲ ▲ Forest: School1.local ▲ ∰ Domains ▲ ∰ Domains ▲ ∰ School1.local ∭ Default Domain Policy ► ∰ Domain Controller:	Smoothwall Certificate Scope Details Settings Dele Links Display links in this location:	gation School1.local			
<ul> <li>▲ School Computers</li> <li>▲ School Computers</li> <li>▲ School Computers</li> <li>▲ School Computers</li> <li>▲ School Vers</li> <li>▲ School Vers&lt;</li></ul>	Location	Ous are linked to this GPU: Enforced No	Link Enabled Yes	Path School1.local/School/School Computers	





<u>a</u>					Group Policy Management
📓 File Action View Window Help					
🗢 🔿 🙍 📉 🗶 🖬					
Group Policy Management Group Policy Management Group Policy Management Group Policy Management Group Policy Management Group Domain Policy Group Domain Policy Group Domain Controllers Group School Users Group Students Group Stu	Edit Enforced Link Enabled Save Report View New Window from Her Delete Rename Refresh Help	Smoothwall Certificate Scope Details Settings Dele Links Display links in this location: The following sites, domains, and Location	gation School I Jocal OUs are linked to this GPO: Enforced No	Link Enabled Yes	Path School1local/School/School Computers
<ul> <li>▷ iming Starter GPOs</li> <li>▷ iming Sites</li> <li></li></ul>		Security Filtering			
🔀 Group Policy Results		The settings in this GPO can only	apply to the following groups, us	ers, and computers:	

7) Right-click on the policy and choose **Edit**, as shown above. This will open the **Group Policy Management Editor**, as shown below.

<u>.</u>	Group Policy Mana	gement Editor	
File Action View Help			
Smoothwall Certificate [SCHOC Computer Configuration Policies Preferences User Configuration Policies Policies Preferences	Smoothwall Certificate [So Select an item to view its description.	CHOOL1DC.SCHOOL1.LOCA Name Computer Configuration	L] Policy
< III >	\Extended \Standard /		





Elle action View Help         Image: Security Electronic Electro	Bite Action Yew Help   Finandly Nume Status	Group Policy Management Editor							x		
Issued To Iss	Compute Compute Configuration     Compute Configuration     Compute Configuration     Configur	<u>File Action View H</u> elp									
Internet Configuration          Image: Schedul Configuration       Status       Centrifice         Image: Schedul Configuration       Status       Status       Centrifice         Image: Schedul Configuration       Status       Status       Status       Status       Centrifice         Image: Schedul Configuration       Status       Status <t< th=""><th>Issued To       Issued By       Expiration Date       Intended Purposes       Friendly Name       Status       Centrifice         Issued To       Issued To       Issued By       Expiration Date       Intended Purposes       Friendly Name       Status       Centrifice         Issued To       Issued To       Issued By       Expiration Date       Intended Purposes       Friendly Name       Status       Centrifice         Issued To       Issued To&lt;</th><th>(+ +) 2 📰 🖹 🖻 💀 🖉 🖬</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Issued To       Issued By       Expiration Date       Intended Purposes       Friendly Name       Status       Centrifice         Issued To       Issued To       Issued By       Expiration Date       Intended Purposes       Friendly Name       Status       Centrifice         Issued To       Issued To       Issued By       Expiration Date       Intended Purposes       Friendly Name       Status       Centrifice         Issued To       Issued To<	(+ +) 2 📰 🖹 🖻 💀 🖉 🖬									
Complete Configuration Complete Configuration Security Settings Name Resolution Policy Control Policies Control Pol	There are no items to show in this view. Software Settings Name Reclution Policy Software Settings Account Policies Software Settings Account Policies Software Settings Account Policies Software Settings Software	Smoothwall Certificate [SCHOOL1DC.SCHOOL1.LOCAL] Policy	^	Issued To	Issued By		Expiration Date	Intended Purposes	Friendly Name	Status	Certifica
		Computer Configuration Configuration Software Settings Software Settings Numae Resolution Policy Software Settings Numae Resolution Policy Software Settings D Software Resolution Policies D Software Restriction Policies D Softw		٩		There are no it	ems to show in this	view.			

- 8) Under Computer Configuration, expand Windows Settings, Security Settings, Public Key Policies and choose Trusted Root Certification Authorities, as shown above.
- 9) Right-click on **Trusted Root Certification Authorities** and choose **Import...** as shown below.







) 🍜 Certificate Import Wizard	) Sectificate Import Wizard
Welcome to the Certificate Import Wizard This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store. Acertificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network contains information used to protect data or to establish secure network Contains A certificate store is the system area where certificates are kept Contract User Contract User Continue, dick Next.	File to Import         Specify the file you want to import.         Ele name:         Image:         More: More than one certificate can be stored in a single file in the following formats:         Personal Information Exchange-PKCS #12 (PPX, P12)         Cryptographic Message Syntax Standard-PKCS #7 Certificates (.P7B)         Microsoft Serialized Certificate Store (.SST)
Next Cancel	Next

10) The **Certificate Import Wizard** will open as shown above on the left. Click **Next** to continue, then click **Browse** as shown above on the right. Navigate to the location where you saved the certificate. Select the certificate, as shown below, then click **Open**.

		×
←	Certificate Import Wizard	
	File to Import	
	Specify the file you want to import.	
	File name:	
	C:\Temp\smoothwall-2025-2027-root.cer Browse	
	Note: More than one certificate can be stored in a single file in the following formats:	
	Personal Information Exchange- PKCS #12 (.PFX,.P12)	
	Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)	
	Microsoft Serialized Certificate Store (.SST)	







) 嵾 Certificate Import Wizard	
Certificate Store Certificate stores are system areas where certificates are ke	ept.
Windows can automatically select a certificate store, or you the certificate.	can specify a location for
lace all certificates in the following store	type of certainance
Certificate store:	
Trusted Root Certification Authorities	Browse
	<u>N</u> ext Cancel

12) Ensure that the **Place all certificates in the following store** button is selected, and that the Certificate store is set as **Trusted Root Certification Authorities**, then click **Next**. *If not, cancel and return to step 8. If you do not install the certificate in this certificate store, the Smoothwall Certificate will NOT function correctly.* 





Х

← 🐉	Certificate Import Wizard		^
	Completing the Certifi	cate Import Wizard	
	The certificate will be imported after	you click Finish.	
	You have specified the following set	tinas:	
	Certificate Store Selected by User Content	Trusted Root Certification Authorities Certificate	
	File Name	C:\Temp\smoothwall-2025-2027-root.cer	
		<u> </u>	Cancel

13) Click Finish



14) Click **OK** to close the Certificate Import Wizard. You should see the new certificate present.







15) Repeat the process and under step 8 install the intermediate certificate under **Computer Configuration**, expand **Windows Settings**, **Security Settings**, **Public Key Policies** and choose **Intermediate Certification Authorities** 

×



Select the correct certificate:

🗧 嵾 Certificate Import Wizard

#### **Completing the Certificate Import Wizard**

The certificate will be imported after you click Finish.

You have specified the following set	tings:
Certificate Store Selected by User	Intermediate Certification Authorities
Content	Certificate
File Name	C:\Temp\smoothwall-2025-2027-intermediate.cer

Cancel	Finish





# Verify it is installed:

SCC Smoothwall test [VSVR-DEV1607.ELAB.EADIDOM.COM] Policy	· · · ·	1	C. C. D. L		E.C. II. N	Status	Certificate Te
🗸 👰 Computer Configuration	smw-scc-fdc-report-01	smw-scc-fdc-report	02/01/2027	Code Signing Time	(None)		
🗸 🚞 Policies	Egistiw-sec-luc-report-of	silw-sec-rue-report	02/01/2021	code signing, rime	SNOTER		
> 🧮 Software Settings							
✓							
> iii Name Resolution Policy							
Scripts (Startup/Shutdown)							
> 📻 Deployed Printers							
Security Settings							
> 🛅 Account Policies							
> 🧃 Local Policies							
> ਗ਼ Event Log							
> 📴 Restricted Groups							
> 📴 System Services							
> 📴 Registry							
> 📴 File System							
> iii Wired Network (IEEE 802.3) Policies							
> 📔 Windows Defender Firewall with Advanced Securi							
Network List Manager Policies							
> Jair Wireless Network (IEEE 802.11) Policies							
Public Key Policies							
🚞 Encrypting File System							
Data Protection							
BitLocker Drive Encryption							
BitLocker Drive Encryption Network Unlock Comparison							
Automatic Certificate Request Settings							
Trusted Root Certification Authorities							
Enterprise Trust							
Intermediate Certification Authorities							

16) Back at the **Group Policy Management Editor** screen, you will see that the new policy has been created and is displayed in the right-hand pane, as shown above. Close the **Group Policy Management Editor**.

The certificate will be deployed to all computers in the target organisational units, and any subfolder organisational units you have below the target organisational unit. Computers will need to be rebooted at least twice. Alternatively, you can apply the settings to an individual computer in the target organisational unit by typing **gpupdate /force** from a command prompt on that computer, then rebooting the computer when prompted.

Always verify that the certificate is installed in the target computers local certificate stores.





#### Deploying the Smoothwall certificate to Windows computers using certutil dspublish

To publish root and intermediate certificates to Active Directory using certutil, you can use the -dspublish option. Here are the steps.

- 1. Save the Smoothwall root and intermediate certificates to your local computer, in the following steps it is assumed you have saved them as C:\temp\smoothwall-2025-2027-root.cer and C:\temp\smoothwall-2025-2027-intermediate.cer
- 2. Open a command prompt (or PowerShell) as an administrator. The following command must be run with an account that is a member of either Domain Admins or Enterprise Admins group.
- 3. Open ADSI edit by running the command. This will open in a new window: adsiedit
- Open Local machine certificates by running the command. This will also open in a new window: cert1m
- 5. Publish the root certificate. Enter the following command: certutil -dspublish -f "C:\temp\smoothwall-2025-2027-root.cer" RootCA

#### The expected output is as follows:

PS C:\WINDOWS\system32> certutil -dspublish -f "C:\temp\smoothwall-2025-2027-root.cer" RootCA

ldap:///CN=smw-scc-fdc-report,CN=Certification Authorities,CN=Public Key Services,CN=Services,CN=Configuration,DC=YOUR,DC=DOMAIN,DC=com?cACertificate

Certificate added to DS store.

ldap:///CN=smw-scc-fdc-report,CN=AIA,CN=Public Key Services,CN=Services,CN=Configuration,DC= YOUR,DC=DOMAIN,DC=com?cACertificate

Certificate added to DS store.

CertUtil: -dsPublish command completed successfully.

6. Publish the intermediate certificate. Enter the following command:

#### certutil -dspublish -f "C:\temp\smoothwall-2025-2027-intermediate.cer" SubCA

#### The expected output is as follows:

PS C:\WINDOWS\system32> certutil -dspublish -f "C:\temp\smoothwall-2025-2027intermediate.cer" SubCA

ldap:///CN=smw-scc-fdc-report-01,CN=AIA,CN=Public Key Services,CN=Services,CN=Configuration,DC=YOUR,DC=DOMAIN,DC=com?cACertificate

Certificate added to DS store.

CertUtil: -dsPublish command completed successfully.





 Navigate to ADSI Edit and expand CN=Configuration, CN=Services, CN=Public Key Services and CN=Certificate Authorities. You should expect to see the certificate present as follows:



8. Navigate to Certificate Management (certIm) tool and Browse to Trusted Root Certification Authorities. You should expect to see the root certificate present as follows:





🖀 certlm - [Certificates - Local Computer\Truster	d Root Certification Authorities\Certifica	tes]			_		×
File Action View Help							
🗢 🔿 🙍 🗊 📋 🔍 🕞 🚺							
Certificates - Local Computer	Issued To	Issued By	Expiration Date	Intended Purposes	Friendly Name	Status	Cert
Personal	🔄 AAA Certificate Services	AAA Certificate Services	31/12/2028	Client Authenticati	Sectigo (AAA)		
Certificates	🔄 AddTrust External CA Root	AddTrust External CA Root	30/05/2020	<all></all>	<none></none>		
<ul> <li>Indited Root Certification Authorities</li> <li>Certification</li> </ul>	Baltimore CyberTrust Root	Baltimore CyberTrust Root	12/05/2025	Client Authenticati	DigiCert Baltimore		
Enterprise Trust	🔄 🔄 Class 3 Public Primary Certificat	Class 3 Public Primary Certificatio	01/08/2028	Client Authenticati	VeriSign Class 3 Pu		
Interprise must	🔄 🖾 Copyright (c) 1997 Microsoft C	Copyright (c) 1997 Microsoft Corp.	30/12/1999	Time Stamping	Microsoft Timesta		
Certificate Revocation List	🔄 DigiCert Assured ID Root CA	DigiCert Assured ID Root CA	10/11/2031	Client Authenticati	DigiCert		
Certificates	🔄 DigiCert Global Root CA	DigiCert Global Root CA	10/11/2031	Client Authenticati	DigiCert		
V Trusted Publishers	🔄 DigiCert Global Root G2	DigiCert Global Root G2	15/01/2038	<all></all>	<none></none>		
Certificates	🔄 DigiCert Global Root G3	DigiCert Global Root G3	15/01/2038	Client Authenticati	DigiCert Global Roo		
> 📋 Untrusted Certificates	DigiCert High Assurance EV Ro	DigiCert High Assurance EV Root	10/11/2031	Client Authenticati	DigiCert		
> 📋 Third-Party Root Certification Authorities	🔄 DigiCert Trusted Root G4	DigiCert Trusted Root G4	15/01/2038	<all></all>	<none></none>		
> 🚞 Trusted People	📮 DigiCert Trusted Root G4	DigiCert Trusted Root G4	15/01/2038	Client Authenticati	DigiCert Trusted Ro		
> Client Authentication Issuers	ELAB-DA-CA	ELAB-DA-CA	02/12/2023	<all></all>	<none></none>		Roo
> Preview Build Roots	alab-VSVR-DEV599-CA	elab-VSVR-DEV599-CA	07/06/2033	<all></all>	<none></none>		
> 🧮 Test Roots	alab-VSVR-DEV599-CA	elab-VSVR-DEV599-CA	07/06/2033	<all></all>	<none></none>		
> 🧮 Remote Desktop	🔄 GlobalSign	GlobalSign	18/03/2029	Client Authenticati	GlobalSign Root CA		
> Certificate Enrollment Requests	GlobalSign Root CA	GlobalSign Root CA	28/01/2028	Client Authenticati	GlobalSign Root CA		
Smart Card Trusted Roots	Microsoft Authenticode(tm) Ro	Microsoft Authenticode(tm) Root	31/12/1999	Secure Email, Code	Microsoft Authenti		
Trusted Devices	Microsoft ECC Product Root Ce	Microsoft ECC Product Root Certi	27/02/2043	<all></all>	Microsoft ECC Prod		
> Windows Live ID Token Issuer	Microsoft ECC TS Root Certifica	Microsoft ECC TS Root Certificate	27/02/2043	<all></all>	Microsoft ECC TS R		
> WindowsServerUpdateServices	Microsoft Identity Verification R	Microsoft Identity Verification Ro	16/04/2045	Code Signing, Time	Microsoft Identity V		
	Microsoft Root Authority	Microsoft Root Authority	31/12/2020	<all></all>	Microsoft Root Aut		
	Microsoft Root Certificate Auth	Microsoft Root Certificate Authori	09/05/2021	<all></all>	Microsoft Root Cert		
	Microsoft Root Certificate Auth	Microsoft Root Certificate Authori	23/06/2035	<all></all>	Microsoft Root Cert		
	Microsoft Root Certificate Auth	Microsoft Root Certificate Authori	22/03/2036	<all></all>	Microsoft Root Cert		
	INO HADILITY ACCEPTED (+)07	NO HADILITY ACCEPTED (-)07.V-	07/01/2004	T:	Valitian Time Chan	_	
	smw-scc-fdc-report	smw-scc-fdc-report	02/01/2027	Client Authenticati	<none></none>		
	Symantec Enterprise Mobile Ro	Symantec Enterprise Wobile Root	14/03/2032	Code signing	<inone></inone>		
	🔄 Thawte Timestamping CA	Thawte Timestamping CA	31/12/2020	Time Stamping	Thawte Timestamp		
	SERTrust RSA Certification Aut	USERTrust RSA Certification Auth	18/01/2038	<all></all>	<none></none>		
	VeriSign Class 3 Public Primary	VeriSign Class 3 Public Primary Ce	16/07/2036	Client Authenticati	VeriSign		
	🔄 VeriSign Universal Root Certific	VeriSign Universal Root Certificati	01/12/2037	Client Authenticati	VeriSign Universal R		
							>
Turnhad Barth Cartification Arabachian t				Activate	Windows		
Trusted Root Certification Authorities store contains	ted Root Certification Authorities store contains 32 certificates.						

If this is not present yet you can pull down the certificate from AD by issuing the command:

PS C:\WINDOWS\system32> certutil -pulse
CertUtil: -pulse command completed successfully.

Refresh the certificate store and it should be present.

9. Still in Certificate Management navigate to Intermediate Certification Authorities and you should expect to see both the intermediate and root certificate present:



Suffolk County Council			SI We	moot b Filtering	hwa + Securi	® ty	
🜇 certIm - [Certificates - Local Computer\Interme	ediate Certification Authorities\Certifica	ates]			_		×
File Action View Help							
🔶 🄿 🔁 📆 📋 🛛 🔂 🕞 🚺 🗊							
Certificates - Local Computer	Issued To	Issued By	Expiration Date	Intended Purposes	Friendly Name	Status	Ce
✓	DigiCert Assured ID CA-1	DigiCert Assured ID Root CA	10/11/2021	Server Authenticati	<none></none>		· 1

🗢 🤿 🙍 📰 📋 🙆 🛃 🗊							
🗊 Certificates - Local Computer	Issued To	Issued By	Expiration Date	Intended Purposes	Friendly Name	Status	Ce
🗸 🚞 Personal	DigiCert Assured ID CA-1	DigiCert Assured ID Root CA	10/11/2021	Server Authenticati	<none></none>		
Certificates	DigiCert Global CA G2	DigiCert Global Root G2	01/08/2028	<all></all>	<none></none>		
Trusted Root Certification Authorities	DigiCert High Assurance Code	DigiCert High Assurance EV Root	10/02/2026	Code Signing	<none></none>		
Certificates	DigiCert SHA2 Assured ID Time	DigiCert Assured ID Root CA	07/01/2031	Time Stamping	<none></none>		
Enterprise Trust	DigiCert Trusted G4 Code Signi	DigiCert Trusted Root G4	28/04/2036	Code Signing	<none></none>		
Intermediate Certification Authorities	DigiCert Trusted G4 RSA4096 S	DigiCert Trusted Root G4	22/03/2037	Time Stamping	<none></none>		
Certificate Revocation List	EADIDOM2015-RootCA	EADIDOM2015-RootCA	25/05/2026	<all></all>	<none></none>		
Trusted Publishers	ELAB-DA-CA	ELAB-DA-CA	02/12/2023	<all></all>	<none></none>		Ro
Certificates	elab-VSVR-DEV599-CA	elab-VSVR-DEV599-CA	07/06/2033	<all></all>	<none></none>		
Untrusted Certificates	elab-VSVR-DEV599-CA	elab-VSVR-DEV599-CA	07/06/2033	<all></all>	<none></none>		
Third-Party Root Certification Authorities	Microsoft Windows Hardware	Microsoft Root Authority	31/12/2002	Code Signing, Win	<none></none>		
> Trusted People	Root Agency	Root Agency	31/12/2039	<all></all>	<none></none>		
> Client Authentication Issuers	Sectigo RSA Code Signing CA 2	USERTrust RSA Certification Auth	24/05/2036	Code Signing	<none></none>		
> 📔 Preview Build Roots	smw-scc-fdc-report	smw-scc-fdc-report	02/01/2027	Client Authenticati	<none></none>		
> 🚞 Test Roots	smw-scc-fdc-report-01	smw-scc-fdc-report	02/01/2027	Code Signing, Time	<none></none>		
> 🧮 Remote Desktop	Symantec Class 3 SHA256 Code	VeriSign Class 3 Public Primary Ce	09/12/2023	Client Authenticati	<none></none>		
> Certificate Enrollment Requests	Symantec Time Stamping Servi	Thawte Timestamping CA	30/12/2020	Time Stamping	<none></none>		
Smart Card Trusted Roots	VeriSign Class 3 Code Signing 2	VeriSign Class 3 Public Primary Ce	07/02/2020	Client Authenticati	<none></none>		
> Trusted Devices	www.verisign.com/CPS Incorp	Class 3 Public Primary Certificatio	24/10/2016	Server Authenticati	<none></none>		
Windows Live ID Token Issuer							
> Windowsserveropdateservices							
	<						>
Intermediate Certification Authorities store contains	19 certificates.			Activate	Windows		

10. If you now open the intermediate certificate (smw-scc-fdc-report-01) and click the Certification Path tab you should see the certificate nested and status is OK as below.

📮 Certificate	×	🔲 Certificate	×
General Details Certification Path		General Details Certification Path	
Certificate Information This certificate is intended for the following purpose(s): Proves your identity to a remote computer Ensures the identity of a remote computer Ensures software from afteration after publication Allows data to be signed with the current time OCSP Signing	-	Certification path	
Issued to: smw-scc-fdc-report-01	-		
Issued by: smw-scc-fdc-report			iew Certificate
Valid from 02/01/2025 to 02/01/2027		Certificate status:	
Issuer Statemen	t	This certificate is OK.	
OK			ОК