Installation Guide Swedish Maritime Administration Security Certificate

- Internet Explorer \succ
- \sim Google Chrome
- MacOS (Safari/Chrome)
- > Mozilla Firefox
- \triangleright Microsoft Edge

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Introduction

The following instructions describe how to install the Swedish Maritime Administration Security Certificate on your computer.

The web browsers supported by the Swedish Maritime Administration are Microsoft Internet Explorer, Google Chrome, and Safari. Some slight differences might exist between different versions of web browsers, but these differences are of a smaller nature.

If you experience problems or have any questions, please contact the Swedish Maritime Administration's Port Call support:

Phone: +46 (0)10-478 58 00

E-mail: portcall@sjofartsverket.se

Installation in Internet Explorer

Step1: Perform the following before you start the installation

- Save the certificate <filename.pfx> which you have received from Swedish Maritime Administration by e-mail, to your computer, for example to you desktop.
- Make sure that you have the password for the certificate file, which you have received from Swedish Maritime Administration by Text Message (SMS), available.

Step2: Remove the old certificate

Before you install the Swedish Maritime Administration security certificate you need to remove previously installed certificates from this issuer.

• Start Internet Explorer and select Tools – Internet Options in the menu bar.





The following window appears:

eneral	Security	Privacy	Content	Connections	Programs	Advanced
Home	page —					
6	To cre	ate home	page tab	os, type each a	iddress on i	ts own <mark>lin</mark> e
	https	://intranet	.atea.se/			^
						\sim
		Use cu	rrent	Use defaul	t Use	new tab
Startu	р ———					
05	Start with t	abs from t	he last s	ession		
~~~		abb monn e				
۵ و	Start with h	iome page				
€ © © S Tabs -	Start with h	iome page	•		-	
€ S Tabs - Char	Start with h	iome page rebpages a	are displa	yed in tabs.		Tabs
<ul> <li>S</li> <li>Tabs -</li> <li>Char</li> <li>Browsi</li> </ul>	itart with h nge how w	oome page ebpages a	are displa	ayed in t <mark>a</mark> bs.		Tabs
<ul> <li>S</li> <li>Tabs -</li> <li>Char</li> <li>Browsi</li> <li>Dele</li> </ul>	Start with h nge how w ing history te tempora	ebpages a	are displa	ayed in tabs. pokies, saved p	asswords, (	Tabs and
S     Tabs -     Char     Browsi     Dele     web	itart with h nge how w ing history te tempora form infor	ebpages a ary files, h mation.	are displa	oyed in t <mark>a</mark> bs. pokies, saved p	asswords, a	Tabs and
<ul> <li>S</li> <li>Tabs -</li> <li>Char</li> <li>Browsi</li> <li>Dele</li> <li>web</li> <li>C</li> </ul>	inge how w ing history te tempora form infor Delete brov	ebpages a ary files, h mation. vsing histo	are displa istory, cc ry on exi	oyed in tabs. bokies, saved p t	asswords, i	Tabs and
S S     Tabs -     Char     Browsi     Dele     web     D	ing history te tempora form infor Delete brov	ebpages a rebpages a ary files, h mation. vsing histo	istory, co	oved in tabs. ookies, saved p t Delete	asswords, s	Tabs and ettings
<ul> <li>S</li> <li>Tabs -</li> <li>Char</li> <li>Browsi</li> <li>Dele</li> <li>web</li> <li>D</li> <li>C</li> <li>Appea</li> </ul>	ing history te tempora form infor pelete brov	ary files, h mation.	istory, co	oved in tabs. ookies, saved p t Delete	asswords, S	Tabs and ettings
Char Browsi Dele web D Char	ing history te tempora form infor Delete brov	ebpages a ary files, h mation. vsing histo	istory, cc ry on exi uages	oved in tabs. ookies, saved p t Delete Fonts	basswords, s	Tabs and ettings cessibility

• Select the tab Content.

The following window appears:

nternet O	ptions					?	×
General S	Security	Privacy	Content	Connections	Programs	Advance	d
Certificat	es Use ce	ertificates	for encry	pted connectio	ons a <mark>nd</mark> iden	tification.	-
C	lear SSL	state	Cer	tificates	Publis	shers	
AutoCom	plete —						
	AutoCo on we	omplete s bpages a u.	stores pre nd sugges	vious entries sts matches	Sett	ings	
Feeds an	d Web S	lices —					
1 A	Feeds update can be other (	and Web ed conten e read in programs	Slices pr It from we Internet E 5.	ovide bsites that xplorer and	Sett	ings I	

• Click on the button Certificates.

The following windows appears:

tended p	urpose:	<ali></ali>					
Personal	Other Peo	ple Inter	mediate Certificat	ion Authorities	Trusted	Root Cert	ification 4
Issued	То	Issue	d By	Expiratio	Frien		
ssss 🙀	001	Exterr	nal Issuing CA v2	2020-05-28	<none></none>		
1							
_							
-							
Import.		xport	Remove			[	Advanced
Import. Certificate	E	xport	Remove				Advanced
Import. Certificate Client Au	E	xport purposes	Remove			[	Advanced

- The tab Personal should be active. If not, select this tab.
- Remove all previously installed certificates from Swedish Maritime Administration in the certificate store by selecting the certificate and click Remove. You know that the certificate is from Swedish Maritime Administration if the Issuer is "External Issuing CA v2" or "SMA External CA G2"

The following window appears.

certifici	ites				
	You cann to delete	not decrypt data e the certificates?	encrypted using t	he certificates	s. Do you want

• Click Yes.

The certificate store should now be cleared from any certificates issued by the Swedish Maritime Administration.

ended pi	urpose:	<aii></aii>					
ersonal	Other Peop	ole Interme	ediate Certific	ation Author	ities	Trusted Roo	t Certification 4
Issued	То	Issued E	ły	Expirati	Frie	endly Name	
Import	Ex	port	Remove				Advance
Import ertificate	Ex	port	Remove	1			Advance
Import ertificate	Ex	port	Remove	1			Advance

Click Close

## Step3: Install the new certificate

*Perform the following steps to install the Swedish Maritime Administration security certificate:* 

- Locate the certificate file <filename.pfx> that you received by mail from Swedish Maritime Administration and saved to your computer in the previous step.
- Right click the certificate file <filename.pfx> that you have received by mail from Swedish Maritime Administration and select Install PFX.



The following window appears:

← 🛿 ← 🖉 Certificate Import Wizard	×
Welcome to the Certificate Import W	Vizard
This wizard helps you copy certificates, certificate trust lists, lists from your disk to a certificate store.	and certificate revocation
A certificate, which is issued by a certification authority, is a identity and contains information used to protect data or to e connections. A certificate store is the system area where cer	confirmation of your stablish secure network rtificates are kept.
Store Location © Current User	
Local Machine	
	Next Cancel

• Select Current User ant then Next

The following window will appear:

ĩ

	×
← 😺 Certificate Import Wizard	
File to Import	
Specify the file you want to import.	
File name:	
C:\Users\username\Desktop\filename.pfx Browse	
Note: More than one certificate can be stored in a single file in the following format Personal Information Exchange- PKCS #12 (.PFX,.P12) Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B) Microsoft Socialized Cortificate Store (.SST)	5:
Next Ca	ncel

Click Next

The following window will appear:

Certificate Import Wizard      Private key protection     To maintain security, the private key was protected with a password.      Type the password for the private key.      Password:     •••••••
Private key protection To maintain security, the private key was protected with a password. Type the password for the private key. Password:
Private key protection To maintain security, the private key was protected with a password. Type the password for the private key. Password:
To maintain security, the private key was protected with a password. Type the password for the private key. Password:
Type the password for the private key. Password:
••••••
•••••
Display Password
Import options:
Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.
Mark this key as exportable. This will allow you to back up or transport your keys at a later time.
Protect private key using virtualized-based security(Non-exportable)
☐ Include all extended properties.
Next Cancel

- Enter the password you received by Text Message (SMS) from Swedish Maritime Administration.
- Check "Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option", according to the window above.
- 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.	
Automatically select the certificate store based on the type of certificate	
O Place all certificates in the following store	
Certificate store:	
BEDRACH	
Next Cance	

- Leave the preselected option "Automatically select the certificate store based on the type of certificate". This will allow your browser to find the correct certificate when visiting Swedish Maritime Administration's e-services.
- Click Next.

The following window will appear:

-	🛃 Certificate Import	Wizard	
	Completing	the Certificate Import Wizard	
	The certificate will b	e imported after you click Finish.	
	You have specified t	he following settings:	
	Certificate Store S	PEX	
	File Name	C:\Users\Username\Desktop\filename.pfx	

• Click Finish.

# The following window will appear:

nporting a r	iew private exchange key		,
	An application is creating a Prote	ected item.	
	CryptoAPI Private Key		
	Security level set to Medium	SetSe	ecurity Level
	ОК С	Cancel	Details

• Click OK.

After clicking OK in the above message box, Internet Explorer will ask for the private key for this certificate every time the certificate is to be used. You might experience the following security warning when finishing the certificate installation:

Security	Warning	×				
	You are about to install a certificate from a certification authority (CA) claiming to represent:					
	Swedish Maritime Administration Root CA G2					
	Windows cannot validate that the certificate is actually from "Swedish Maritime Administration Root CA G2". You should confirm its origin by contacting "Swedish Maritime Administration Root CA G2". The following number will assist you in this process:					
	Thumbprint (sha1): 6A400466 E681DE2F EB4F9411 E3D481F0 DE89BE71					
	Warning: If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.					
	Do you want to install this certificate?					
	Yes No					

Verify that your new security certificate is issued from a Swedish Maritime Administration Certificate Authority. The thumbprint (Sha1) stated in the warning above should be as follows:

#### 6A400466 E681DE2F EB4F9411 E3D481F0 DE89BE71

• If the thumbprint is correct, press Yes

The following confirmation will appear:

Certificate Import Wizard	×
The import was success	ful.
ОК	

Click OK

You have now completed the installation of your Swedish Maritime Administration security certificate.

- Make sure to save the certificate file that you received from Swedish Maritime Administration to a secure location for future use. I.e. for backup reasons and for installation on other devices. Keep the certificate and the password separated.
- Done!

# Installation in Google Chrome

Step1: Perform the following before you start the installation

- Save the certificate <filename.pfx> which you have received from Swedish Maritime Administration by e-mail, to your computer, for example to you desktop.
- Make sure that you have the password for the certificate file, which you have received from Swedish Maritime Administration by Text Message (SMS), available.

### Step2: Remove the old certificate

Before you install the Swedish Maritime Administration security certificate you need to remove previously installed certificates from this issuer.

- Start Google Chrome and select "Customize and control Google Chrome"
- Select Settings

r	Settings	× +	- 0	× ♀ Dela
-	$\leftrightarrow$ $\rightarrow$ C (	Chrome   chrome://settings	☆ 8	:
11111	$\equiv$ Settings		Customize and control	Google Chrome

🕸 Settings 🛛 🗙 🕂		- 🗆 :
$\leftrightarrow$ $\rightarrow$ <b>C</b> S Chrome   chrome://settings		☆ 0
≡ Settings	New tab New window New incognito wir	Ctrl+T Ctrl+N ndow Ctrl+Shift+N
	History Downloads Bookmarks	Ctrl+J
	Zoom -	100% +
	Print Cast Find More tools	Ctrl+P Ctrl+F
	Edit Cu	t Copy Paste
	Settings	
	Help	
	Exit	Ctrl+Shift+Q

• Under the Privacy and Security section, click Security

Clear browsing data	1
Clear history, cookies, cache, and more	
Cookies and other site data	
Third-party cookies are blocked in Incognito mode	
Security	
Safe Browsing (protection from dangerous sites) and other security settings	
	Clear browsing data Clear history, cookies, cache, and more Cookies and other site data Third-party cookies are blocked in Incognito mode Security Safe Browsing (protection from dangerous sites) and other security settings

• Scroll down to "Manage Certificates" and click on "Manage HTTPS/SSL certificates and settings".

Advanced	
Use secure DNS Determines how to connect to websites over a secure connection	■ ○
Manage certificates Manage HTTPS/SSL certificates and settings	
Google Advanced Protection Program Safeguards the personal Google Accounts of anyone at risk of targeted attacks	

The following window will appear:

tended p	urpose:	<all></all>					
Personal	Other Peo	ple Inte	rmediate Certifica	tion Authorities	Trusted	Root Certi	fication 4
Issued	То	Issue	ed By	Expiratio	Frien		
SSSS	001	Exter	rnal Issuing CA v2	2020-05-28	<none></none>		
-							
Import.	E	xport	Remove				Advance
Import. Certificat	E e intended thentication	xport purposes	Remove				Advance

- The tab Personal should be active at this point. If not, select it.
- Remove all previously installed certificates from Swedish Maritime Administration in the certificate store by selecting the certificate and click Remove. You know that the certificate is from Swedish Maritime Administration if the Issuer is "External Issuing CA v2" or "SMA External CA G2"

The following window appears.

Crunco	105				
	You canr to delete	not decrypt data e e the certificates?	ncrypted using th	ne certificates	. Do you want

• Click Yes.

The certificate store should now be cleared from any certificates issued by the Swedish Maritime Administration.

ersonal	Other Peo	ple Inte	rmediate Certi	fication Author	ities	Trusted Roo	ot Certification 4
Issued	То	Issu	ed By	Expirati	Frie	endly Name	
Import. ertificat	E	xport	Remove				Advance

• Click Close

#### Step3: Install the new certificate

*Perform the following steps to install the Swedish Maritime Administration security certificate:* 

- Locate the certificate file <filename.pfx> that you received by mail from Swedish Maritime Administration and saved to your computer in the previous step.
- Right click the certificate file <filename.pfx> that you have received by mail from Swedish Maritime Administration and select Install PFX.



## The following window appears:

÷	😺 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  Current User  Local Machine	
	To continue, click Next.	
	Next Cance	4

• Select Current User ant then Next

The following window will appear:

ile to Import	
Specify the file you want to import.	
File name:	
C:\Users\username\Desktop\filename.pfx	Browse
Microsoft Serialized Certificate Store (.SST)	

• Click Next

The following window will appear:

	×
- 😺 Certificate Import Wizard	
Private key protection	
To maintain security, the private key was protected with a password.	
Type the password for the private key. Password:	
Display Password	
- Import options:	
Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.	
Mark this key as exportable. This will allow you to back up or transport your keys at a later time.	
Protect private key using virtualized-based security(Non-exportable)	
☑ Include all extended properties.	
Next Cance	el
Hext Caller	

- Enter the password you received by Text Message (SMS) from Swedish Maritime Administration.
- Check "Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option", according to the window above.
- 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.	
	$\textcircled{\ensuremath{}}$ Automatically select the certificate store based on the type of certificate	
	O Place all certificates in the following store	
	Certificate store:	
	Browse	
	Next Cance	el

- Leave the preselected option "Automatically select the certificate store based on the type of certificate". This will allow your browser to find the correct certificate when visiting Swedish Maritime Administration's e-services.
- Click Next.

The following window will appear:

~	🐉 Certificate Import Wiza	rd	×
	Completing the	Certificate Import Wizard	
	The certificate will be impo	rted after you click Finish.	
	Certificate Store Selected	Automatically determined by the wizard	
	Content	PFX	
	File Name	C:\Users\Username\Desktop\filename.pfx	
		Finish         Cancel	

• Click Finish.

# The following window will appear:

mporting a r	new private exchange key		×
	An application is creating a Prote	ected item.	
	CryptoAPI Private Key		
	Security level set to Medium	SetS	ecurity Level
	ок с	ancel	Details

• Click OK.

After clicking OK in the above message box, Google Chrome will ask for the private key for this certificate every time the certificate is to be used. You might experience the following security warning when finishing the certificate installation:

Security	Warning	×
	You are about to install a certificate from a certification authority (CA) claiming to represent:	
	Swedish Maritime Administration Root CA G2	
	Windows cannot validate that the certificate is actually from "Swedish Maritime Administration Root CA G2". You should confirm its origin by contacting "Swedish Maritime Administration Root CA G2". The following number will assist you in this process:	
	Thumbprint (sha1): 6A400466 E681DE2F EB4F9411 E3D481F0 DE89BE71	
	Warning: If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.	
	Do you want to install this certificate?	
	Yes No	

To be sure that your new security certificate is issued from a Swedish Maritime Administration Certificates Authority, the Thumbprint (sha1) in the message box above should be as follows:

6A400466 E681DE2F EB4F9411 E3D481F0 DE89BE71

• If the thumbprint is correct, press Yes

The following confirmation will appear:

Certificat	e Import Wizard	×
1	The import was successf	ul.
	ОК	

• Click OK

You have now completed the installation of your Swedish Maritime Administration security certificate.

- Make sure to save the certificate file the you received from Swedish Maritime Administration to a secure location for future use (i.e. for backup reasons and for installation on other devices). Keep the certificate and the password separated.
- Done!

# Installation in MacOS (Safari/Chrome)

## Step1: Perform the following before you start the installation

- Save the certificate <filename.pfx> which you have received from Swedish Maritime Administration by e-mail, to your computer, for example to you desktop.
- Make sure that you have the password for the certificate file, which you have received from Swedish Maritime Administration by Text Message (SMS), available.

## Step2: Remove the old certificate

Before you install the Swedish Maritime Administration security certificate you need to remove previously installed certificates from this issuer.

• Start Internet Applications and navigate to Key Chain Access.

•••		Applications		
			Q Search	
Back/Forward	View Arrange Action	Share Edit Tags	Search	2
Favorites	Name	<ul> <li>Date Modified</li> </ul>	Size	Kind
Desktop	📝 TextEdit	12 Jun 2018 at 16:47	5,6 MB	Applicati
AirDron	Time Machine	12 Jun 2018 at 16:47	1,3 MB	Applicati
( Androp	🔻 🔀 Utilities	Today at 09:32		Folder
Applications	Activity Monitor	12 Jun 2018 at 16:47	12,7 MB	Applicati
Documents	Adobe Flash Player Install M	anager Today at 09:32	3,3 MB	Applicati
	AirPort Utility	9 Aug 2018 at 10:51	38,3 MB	Applicati
Recents	Audio MIDI Setup	9 Aug 2018 at 10:51	3,9 MB	Applicati
O Downloads	🞄 Bluetooth File Exchange	9 Aug 2018 at 10:51	1, <b>1</b> MB	Applicati
Cloud Drive	Boot Camp Assistant	9 Aug 2018 at 10:51	3,8 MB	Applicati
	🎉 ColorSync Utility	12 Jun 2018 at 16:47	5,3 MB	Applicati
Devices	Console	12 Jun 2018 at 16:47	2,6 MB	Applicati
BOOTCAMP	Ø Digital Color Meter	12 Jun 2018 at 16:47	509 KB	Applicati
Damata Diag	Disk Utility	9 Aug 2018 at 10:51	6,6 MB	Applicati
Remote Disc	M Grab	12 Jun 2018 at 16:47	1,6 MB	Applicati
Tags	阑 Grapher	12 Jun 2018 at 16:47	35,5 MB	Applicati
l Lila	👫 Keychain Access	9 Aug 2018 at 10:51	4,8 MB	Applicati
	Stephen Migration Assistant	12 Jun 2018 at 16:47	2,4 MB	Applicati
Grönt	Script Editor	12 Jun 2018 at 16:47	6,4 MB	Applicati

The following window will appear:

	Keych	ain Access		
Click to lock the login keychain.			Q, Se	arch
Keychains <b>i</b> login <b>i</b> Local Items System System Roots	Centificate Issued by: Expires: T This cent	SMA External Issuing CA G2 hursday, 24 September 2020 at tificate is valid	13:27:24 Central European Summe	r Time
	Name	<ul> <li>Kind</li> </ul>	Expires	Keychain
	▶ 🗔 ssss001	certificate	24 Sep 2020 at 13:27:24	login
Category All Items Passwords Secure Notes				
Mv Certificates				
Kevs				
Certificates				
3	Copy		1 item	

- Select **My Certificates** in all Keychains, and check if there are any previously installed certificates from Swedish Maritime Administration in any of them.
- If there are any certificates from Swedish Maritime Administration (**Issued by: External Issuing CA v2**, or **SMA External Issuing CA G2**) these certificates should to be removed before installing the new certificate, in order to avoid future problems.
- Select the certificate, go to Edit in the Menu Bar, and choose Delete.



The following message box will appear:

0.0	Keychai	n Access		
Click to lock the login keychai	n.			
Keychains	Are you sure yo from the login k Warning! If a privat associated with the maxip revent you from maxing secure come	Are you sure you want to delete "ssss001" from the login keychain? until Warning! If a private key is deleted, certificates associated with that key can no longer be used. This may prevent you form adding encrypted messages or		r Time
	certain that you no	longer need the selected key.	ires	Keychain
Category				
Secure Notes				
My Certificates				
V Reys				
3	+ i Copy	1 item		

• Click Delete

The following login window might appear:

0		Reychain Acco	200		
Click to lock the lo	ogin keychain.				
Keych	ains	Swedish Maritin	e Administration R	oot CA G2	
Grine Contraction Systems	You are mak Trust Setting Enter your pass User Name: Password:	Conflorte Ing changes to your Certificate auti autor to allow this. username	137 at 12:50:59 C ed as trusted for t Kind certificate certificate certificate certificate certificate certificate	entral European Summer Time this account 28 May 2020 at 11:19:03 18 Oct 2022 at 11:48:26 21 Nov 2026 at 13:42:00 28 Sep 2026 at 10:12:10 10 Jul 2023 at 12:49:25	Keychain login login login login login
All     Pa:     Secure Notes     My Certificates	-	Cancel Update Settings			
<ul> <li>Keys</li> <li>Certificates</li> </ul>					
1				6 itome	

• Enter your username and password to remove the certificate from the Keychain Access.

The certificate should now be removed from all the Keychains in the Keychain Access window.

•••	Keycha	in Access		
Click to lock the login keychain.				Q Search
Keychains				
🧃 login				
<ul> <li>Local Items</li> <li>System</li> <li>System Roots</li> </ul>				
	Name	<ul> <li>Kind</li> </ul>	Expires	Keychain
Category				
All Items				
. Passwords				
Secure Notes				
My Certificates				
Y Keys				
Certificates				
	+ Copy		0 items	

#### Step3: Install the new certificate

Perform the following steps to install the Swedish Maritime Administration security certificate:

- Locate the certificate file <filename.pfx> that you received by mail from Swedish Maritime Administration and saved to your computer in the previous step.
- Double click the certificate file <filename.pfx> that you have received by mail from Swedish Maritime Administration and select Install PFX.

The following message box will appear:

	Enter the password for "firstname.lastname.pfx":
M	Password: ••••••
-	Show password
	Cancel OK

• Enter the password that you have received by Text Message (SMS) from Swedish Maritime Administration and click OK.

Your certificate should now be visible in the Keychain Access window as in the window below.

**NOTE**: You might receive a warning if your computer does not trust the Swedish Maritime Administration Root CA as shown in the below picture. If you receive this warning, you need to trust the Swedish Maritime Administration Root CA certificate on your computer.

• • •		Keychain Access		
Click to lock the login keychain.			Q s	earch
Keychains	Certificate	ssss001 Issued by: SMA External Issuing CA G2 Expires: Thursday, 24 September 2020 ⊘ "Swedish Maritime Administration Ro	at 13:27:24 Central European Summ ot CA G2" certificate is not trusted	er Time
	Name	Kind	Expires	Keychain
	▶ 🛐 ssss001	certificate	24 Sep 2020 at 13:27:24	login
Category  All Items  Passwords Secure Notes				
My Certificates				
% Keys	-			
🔄 Certificates				
	+ i Cor	y_	1 item	

	Swedish Maritime Administration Root CA G2 Root certificate authority Expires: Friday, 10 July 2037 at 12:50:59 Central European Summer Time © "Swedish Maritime Administration Root CA G2" certificate is not trusted					
	Name	<ul> <li>Kind</li> </ul>	Expires	Keychain		
	External Issuing CA v2	certificate	28 May 2020 at 11:19:03	login		
	SMA External Issuing CA G2	certificate	18 Oct 2022 at 11:48:26	login		
	SMA Internal Issuing CA G2	certificate	21 Nov 2025 at 13:42:00	login		
	▶ 🔄 ssss001	certificate	24 Sep 2020 at 13:27:24	login		
	Swedish Maritiinistration R	oot CA certificate	28 Sep 2026 at 10:12:10	login		
Category	Swedish Marititration Root	CA G2 certificate	10 Jul 2037 at 12:50:59	login		
All Items Passwords Secure Notes My Certificates Keys	🔀 X509 Certificate	certificate	9 Apr 2019 at 12:42:25	login		
Certificates						

• If you receive a warning saying that Swedish Maritime Administration Root CA G2 is not trusted, navigate to **Certificates** and select **Swedish Maritime Administration Root CA G2** and double click on it.

The following window appears:



• Expand **Trust**, and in the top dropdown menu **"When using this certificate:"** select **"Always Trust".** 



• Close the window.

The following login box might appear at this point of the installation.

$\bigcap$	You are makin Trust Settings	ig changes to your Certificate s.
R	Enter your passw	ord to allow this.
	User Name: 🛛	username
	Password:	••••

• If you receive a login box, enter **username** and **password** for **your computer**. This might be necessary, since the installation of a RootCA certificate is considered a system change.

The warning in the Keychain Access - Certificates window should now have disappeared.

• • •	Nyc	kelhanterare				
Klicka om du vill låsa nyckelringen in	loggning.		Q s	ök		
Nyckelringar inloggning System System Systemrötter	Swedish Maritime Administration Root CA G2 Rotertifikautifarare Förtaller: fredag 10 juli 2037 kl. 12:50:59 centraleuropeisk sommartid O Det hår certifikatet är märkt som betrott för det här kontot					
	Namn	~ Тур	Giltig till	Nyckelring		
	External Issuing C	A v2 Certifikat	28 maj 2020 11:19:03	inloggning		
	SMA External Issu	ing CA G2 Certifikat	18 okt. 2022 11:48:26	inloggning		
	SMA Internal Issui	ng CA G2 Certifikat	21 nov. 2025 13:42:00	inloggning		
	▶ 📷 ssss001	Certifikat	24 sep. 2020 13:27:24	inloggning		
	Swedish Maritidr	ministration Root CA Certifikat	28 sep. 2026 10:12:10	inloggning		
Kategori	Swedish Maritiin	istration Root CA G2 Certifikat	10 juli 2037 12:50:59	inloggning		
<ul> <li>Alla objekt</li> <li>Lösenord</li> <li>Säkra anteckningar</li> <li>Mina certifikat</li> <li>♥ Nycklar</li> <li>Certifikat</li> </ul>	X509 Certificate	Certifikat	9 apr. 2019 12:42:25	inloggning		
	+ i Kopiera	7	objekt			

• Select My Certificates

No warnings should appear in Keychain Access – **My Certificates** window either:

		Keychain Access			
Click to lock the login keychain.				Q, Se	arch
Keychains for login for Local Items System System Roots	Certificate SS Iss Exp Ø	ss001 ued by: SMA External Is pires: Thursday, 24 Sep This certificate is valid	ssuing CA G2 tember 2020 at 1	3:27:24 Central European Summe	r Time
	Name	^	Kind certificate	Expires 24 Sep 2020 at 13:27:24	Keychain login
Category All Items All Passwords					
Secure Notes     My Certificates     Keys     Certificates					
				1 1000	

• The installation of your Swedish Maritime Administration security certificate is now completed.

# Installation in Mozilla Firefox

### Step1: Perform the following before you start the installation

- Save the certificate <filename.pfx> which you have received from Swedish Maritime Administration by e-mail, to your computer, for example to you desktop.
- Make sure that you have the password for the certificate file, which you have received from Swedish Maritime Administration by Text Message (SMS), available.

### Step2: Install a new certificate in Mozilla Firefox

Before you install the Swedish Maritime Administration security certificate you need to remove previously installed certificates from this issuer.

• Start Mozilla Firefox and navigate to Menu Options.



• Scroll down the page to Certificates



• Click View Certificates

The Certificate Manager window appears:

	Certificate Manager	
Your Certificates People Servers	Authorities	
You have certificates on file that identify these of	rtificate authorities	
Certificate Name	Security Device	5
- AC Camerfirma S.A.		
Chambers of Commerce Root - 2008	Builtin Object Token	
Global Chambersign Root - 2008	Builtin Object Token	
AC Camerfirma SA CIF A82743287		
Camerfirma Chambers of Commerce Root	Builtin Object Token	
Camerfirma Global Chambersign Root	Builtin Object Token	
ACCV		
ACCVRAIZ1	Builtin Object Token	
~Actalis S.p.A./03358520967		
View Edit Trust Import	Export Delete or Distrust	
		OK
		OK

• Select the tab Your Certificates

			Certifica	te Manager		3
Your Certificates	People	Servers	Authorities			
You have certificates	from these or	ganizations th	nat identify you			
Certificate Name		Security D	evice	Serial Number	Expires On	E\$
<u>V</u> iew <u>B</u> a	ckup Ba	c <u>k</u> up All	Import	Delete		OK

• If there are any previously installed certificates issued from the Swedish Maritime Administration, these certificates should be removed to avoid future problems. Select the certificate and click View in order to find out if Swedish Maritime Administration is the issuer of the certificate.

The following window appears. If the Issuer is: External Issuing CA v2" or SMA External Issuing CA G2, the certificate is issued by the Swedish Maritime Administration.

eneral <u>D</u> etails		
Could not verify this c	ertificate because the issuer is unknown.	
Issued To		
Common Name (CN)	ssss001	
Organization (O)	<not certificate="" of="" part=""></not>	
Organizational Unit (OU	J) eAdmin	
Serial Number	14:00:00:0D:53:E1:95:28:C8:A3:65:2A:66:00:00:00:00:0D:53	
Issued By		
Common Name (CN)	External Issuing CA v2	
Organization (O)	Swedish Maritime Administration	
Organizational Unit (OL	J) <not certificate="" of="" part=""></not>	
Period of Validity		
Begins On	Tuesday, June 5 2018	
Expires On	Thursday, May 28, 2020	
Eingerprinte		
SHA-256 Fingerprint	66:28:A9:B6:96:C4:DD:6B:77:EF:AD:33:3E:72:49:AB: 29:F4:F0:B9:C1:84:4A:3D:76:30:FB:D6:05:80:9E:50	
SHA1 Fingerprint	57:E7:07:04:F8:EA:F5:81:3E:44:C9:8A:CA:52:1D:E1:7B:2F:6B:37	
		lose

• Click Close

Certificate Manager						
Your Certificates	People	Servers Aut	thorities			
'ou have certificates fr	rom these org	anizations that ide	entify you			
Certificate Name		Security Device		Serial Number	Expires On	E.
Swedish Maritime Ad	Iministration					
ssss001		Software Security	Device	1C:00:00:00:1D:CE:65:E0:23:	EC:7 Thursday, September 24	, 2020
<u>V</u> iew <u>B</u> ack	kup Bad	c <u>k</u> up All I <u>m</u> p	port	elete		

• If the certificate is issued from the Swedish Maritime Administration, select the certificate and click Delete.

*The following dialogue box appears:* 

		Certificate Manager	×
Your Certificates	People	Servers Authorities	
You have certificates f	rom these orga	Delete your Certificates X	
Certificate Name		Are you sure you want to delete these certificates? Expires On R	
~Swedish Maritime Ad	dministration	ssss001	
5555001		If you delete one of your own certificates, you can no longer use it to identify OK Cancel	
<u>V</u> iew <u>B</u> ac	kup Bac <u>k</u>	up All Import Delete OK	

• Select the certificate in the Delete your Certificate box, and click OK.

The Certificate Manager is now empty:

			Cer	tificate Manager			
Your Certificat	tes Peop	le Servers	Authorities	5			
ou have certifica	ates from the	se organizations t	hat identify yo	u			
Certificate Nam	ie	Security E	Device	Serial Number	Expi	res On	E\$
Mau	Paulaun	Declary All	Innert	Datata			
⊻jew	<u>B</u> ackup	Backup All	I <u>m</u> port	Delete			

• Click OK

	₽	Options	× +		- 0	×
4	$\rightarrow$	C' û	Sirefox about:preferences#privacy	☆	III\ 🗊	≡
			3	^O Find in Op	otions	^
	₽	General	✓ Block dangerous downloads			
	۵	Home	$\checkmark$ Warn you about unwanted and uncommon software			
	Q	Search	Certificates			
	•	Privacy & Security	When a server requests your personal certificate Select one automatically			
	C	Firefox Account	• Ask you every time			
			Query OCSP responder servers to confirm the current validity o	f Vie	w <u>C</u> ertificates	
	?	Firefox Support	Certificates	Sec	curity Devices	
						~

• Select Privacy & Security and click View Certificates

		Certifi	cate Manager		;
Your Certificates	People	Servers Authorities			
ou have certificates t	rom these or	ganizations that identify you			
Certificate Name		Security Device	Serial Number	Expires On	D.
10			Pullin		
View Bac	кир В	ackup All	Delete		

## • Click Import

Certificate File to I	Import		×		
	> This PC > Desktop	✓ ひ Search Desktop	Q		
rganize 👻 Nev	w folder	8= -	• 🔲 🕜	Expires On	e
<ul> <li>This PC</li> <li>3D Objects</li> <li>Desktop</li> <li>Documents</li> <li>Downloads</li> <li>Music</li> <li>Dicturae</li> </ul>	Date modified     Name     2016-06-20     W10     2018-06-05     filename     ile name:	<ul> <li>PKCS12 Files (*.p12;</li> <li>Open</li> </ul>	Type File fol Person		
v	<u>V</u> iew <u>B</u> ackup	Backup All Import	Delete		ОК

• Browse to the certificate file <filename.pfx> that you copied to your computer from the email from the Swedish Maritime Administration earlier.

Your Certificates Pe	pple Servers Authorities	
ou have cer <mark>tif</mark> icates from t	ese organizations that identify you	
Lertificate Name	Password Required X Expires I	Un P
View Backup	Backup All Import Delete	ОК

• Enter the password that you received from the Swedish Maritime Administration by Text Message SMS.

The new certificate is now installed in the Mozilla Firefox Certificate Store.

			Cert	ificate Manager		
Your Certificates	People	Servers	Authorities			
You have certificate	s from these or	ganizations t	hat identify you	1		
Certificate Name		Security D	)evice	Serial Number	Expires On	<b>E</b> \$
Swedish Maritime	Administration					
ssss001		Software Se	ecurity Device	14:00:00:0D:53:E1:95:28:	C8:A3:6 Thursday, May 28, 202	20
<u>V</u> iew <u>B</u>	ackup B	ac <u>k</u> up All	I <u>m</u> port	Delete		
<u>V</u> iew <u>B</u>	ackup, B	ac <u>k</u> up All	Import	Delete		

• Verify that the certificate is issued from the correct issuer by selecting the certificate and clicking View again. Issued By: should state Common Name (CN): SMA External Issuing CA G2 and Organization (O): Swedish Maritime Administration.

The following window should appear if the Issuer is correct:



• The installation of your Swedish Maritime Administration security certificate is now completed.

# Installation in Microsoft Edge

Step1: Perform the following before you start the installation

- Save the certificate <filename.pfx> which you have received from Swedish Maritime Administration by e-mail, to your computer, for example to your desktop.
- Make sure that you have the password for the certificate file, which you have received from Swedish Maritime Administration by Text Message (SMS), available.

### Step2: Remove the old certificate

Before you install the Swedish Maritime Administration security certificate you need to remove previously installed certificates from this issuer.

• Start Microsoft Edge, click the three dots in the upper-right corner, and select *Settings* as shown below.



Click *Privacy, search and services* on the left. Then scroll down to *Manage Certificates*.



The following window will appear:

itended p	urpose:	<all></all>				
Personal	Other Peo	ple Intern	nediate Certifica	ition Authoritie	s Trusted R	oot Certification
Issued	То	Issued	і Ву	Expiratio	Frien	
ssss 🙀	001	Extern	al Issuing CA v2	2020-05-28	<none></none>	
1						
- 2						
1			·			
Import.	E	xport	Remove	]		Advancer
Import. Certificato	E	xport	Remove	]		Advances
Import. Certificate Client Au	•• E	xport purposes	Remove	]		Advance
Import. Certificati Client Au	E: e intended thenticatior	xport purposes	Remove	]		Advanced
Import. Certificat Client Au	E e intended thentication	xport purposes	Remove	]		Advancer

- The tab Personal should be active at this point. If not, select it.
- Remove all previously installed certificates from Swedish Maritime Administration in the certificate store by selecting the certificate and click Remove. You know that the certificate is from Swedish Maritime Administration if the Issuer is "External Issuing CA v2" or "SMA External CA G2"

The following window appears.

Certifica	tes		$\times$
	You cannot decrypt to delete the certific	ata encrypted using the certificat .es?	es. Do you want
		Yes	No

• Click Yes.

The certificate store should now be cleared from any certificates issued by the Swedish Maritime Administration.

tended purpose: Personal Other Per	<all></all>	fication Authoriti	ies Trusted Root	Certification 4
Issued To	Issued By	Expirati	Friendly Name	
Import	Export Remove			Advance

Click Close

#### Step3: Install the new certificate

*Perform the following steps to install the Swedish Maritime Administration security certificate:* 

- Locate the certificate file <filename.pfx> that you received by mail from Swedish Maritime Administration and saved to your computer in the previous step.
- Right click the certificate file <filename.pfx> that you have received by mail from Swedish Maritime Administration and select Install PFX.

	Install PFX	
	Open	
8	Classify and protect	
	7-Zip	>
	CRC SHA	>
B	Share	
	Open with	>
D	Net iD	>
	Give access to	>
۵	Sök efter hot	
	Restore previous versions	
	Send to	>
	Cut	
	Сору	
	Create shortcut	
	Delete	
	Rename	
	Properties	

The following window appears:

← 🛿 ← 🖉 Certificate Import Wizard	×
Welcome to the Certificate Import W	Vizard
This wizard helps you copy certificates, certificate trust lists, lists from your disk to a certificate store.	and certificate revocation
A certificate, which is issued by a certification authority, is a identity and contains information used to protect data or to e connections. A certificate store is the system area where cer	confirmation of your stablish secure network rtificates are kept.
Store Location © Current User	
Local Machine	
	Next Cancel

• Select Current User and then Next

The following window will appear:

ĩ



Click Next

## The following window will appear:

ᡒ Certificate Import Wizard	
Private key protection	
To maintain security, the private key was protected with a password.	
Type the password for the private key.	
••••••	
Display Password	
Import options:	
Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.	
Mark this key as exportable. This will allow you to back up or transport your keys at a later time.	
Protect private key using virtualized-based security(Non-exportable)	
✓ Include all extended properties.	
Next Cance	el

- Enter the password you received by Text Message (SMS) from Swedish Maritime Administration.
- Check "Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option", according to the window above.
- Click Next.

Contificat	a Stara				
Certi	icate stores are sy	r <mark>stem</mark> areas where	certificates are ke	ept.	
Wind for th	ows can automatic	ally select a certifi	cate store, or you	can specify a location	
	Automatically sele	ect the certificate s	tore based on the	type of certificate	
C	Place all certificat	tes in the following	store		
	Certificate store:				
				Browse	

- Leave the preselected option "Automatically select the certificate store based on the type of certificate". This will allow your browser to find the correct certificate when visiting Swedish Maritime Administration's e-services.
- Click Next.

The following window will appear:

Completing	the Certificate Import Wizard
The certificate will b	e imported after you click Finish.
You have specified th	e following settings:
Certificate Store Se	elected Automatically determined by the wizard
Content	PFX

• Click Finish.

# The following window will appear:

An application is creating a Prote	ected item	
An application is creating a riote	eteu nem.	
Crypto API Private Key		
CippioArrenvale key		
Security level set to Medium	SetSe	ecurity Level
	27	

• Click OK.

After clicking OK in the above message box, Microsoft Edge will ask for the private key for this certificate every time the certificate is to be used. You might experience a following security warning when finishing the certificate installation. You need to click Allow.

The following confirmation will appear:



• Click OK

You have now completed the installation of your Swedish Maritime Administration security certificate.

- Make sure to save the certificate file that you received from Swedish Maritime Administration to a secure location for future use. I.e. for backup reasons and for installation on other devices. Keep the certificate and the password separated.
- Done!