DSCSigner Installation Manual for Windows

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1. DSCSigner installation in Windows

The following are the prerequisites for installing DSCSigner utility:

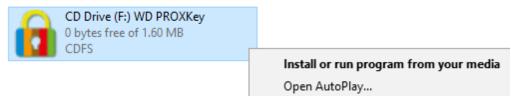
- Oracle Java 8 Java Runtime
- Driver for DSC token in Windows
- 1.1. DSC token driver installation

The installation process for ProxKey token driver is explained. Other DSC tokens will have a similar setup

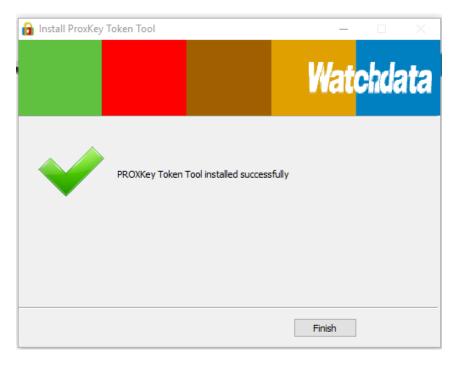
for token driver installation.

Connect the DSC token. Open This PC from start menu. Now right click on (WD ProxKey) Icon and choose

option "Install or run program from media"



Install the driver by completing the setup. Once the installation is complete, an installation completed window is shown. Click on Finish button.

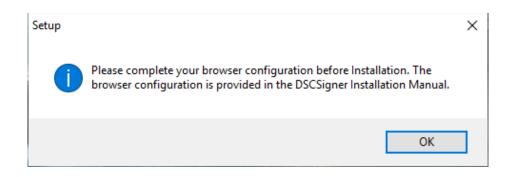


1.2. DSCSigner installation

1. The token driver installation in the previous step must be completed successfully before installing the DSCSigner utility. Double click on this icon to install DSCSigner software.



2. An initial message is shown to configure browser before installation. See <u>Browser Configuration</u> section. Click ok to proceed to next install stage.



 Complete the Installation process by clicking 'Next' button to complete the installation of DSCSigner.

爾 Setup - D	SCService		—		×
Select D	estination Location				
	should DSCService be installed?				2
where	should bocoel vice be installed?			C	
_					
	Setup will install DSCService into the	following folder.			
To con	tinue, click Next. If you would like to se	elect a different folder,	click Brow	wse.	
					1
C:\Pro	gram Files (x86)\DSCService		Bro	owse	
At leas	t 23.1 MB of free disk space is required	1.			
		March		Com	
		Next	:>	Cano	tei
🇃 Setup - D	SCService		_		×
爾 Setup - D	SCService		_		×
-	SCService dditional Tasks		_		×
Select A	dditional Tasks		_		×
Select A			_		\times
Select A	dditional Tasks		-		×
Select A Which	dditional Tasks additional tasks should be performed?	up to perform while insta		Service.	
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Select A Which Select then d	dditional Tasks additional tasks should be performed? the additional tasks you would like Setu ick Next.				
Select A Which Select then d	dditional Tasks additional tasks should be performed? the additional tasks you would like Setu ick Next.	up to perform while insta < Back Next		CService,	

4. Click on Next to install to Default location and to proceed to next stage.

🇊 S	etup - DSCService	_		×
R	eady to Install Setup is now ready to begin installing DSCService on your computer.		6	
	Click Install to continue with the installation, or click Back if you want change any settings.	to reviev	vor	
	Destination location: C:\Program Files (x86)\DSCService		^	
	Additional tasks: Display DSCSigner Installation Manual			
	<		v	
	*			
	< Back Inst	all	Can	cel

5. Click on the Install button to install the DSCSigner software. Once the Installation is complete, a window appears as shown below indicating the setup is complete. Click Finish to launch DSCSigner.

爾 Setup - DSCService	- 🗆 ×
	Completing the DSCService Setup Wizard
	Setup has finished installing DSCService on your computer.
	Click Finish to exit Setup.
	Launch DSCService
	Finish

6. After successful installation, an icon for DSCSigner will be seen at the right side of the taskbar with status as Running (if the token is plugged in). To change the token driver configuration, right click on the DSCSigner icon and click on Settings.



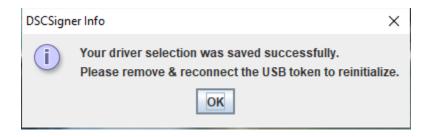
7. A window appears with title DSCSigner Settings. Select the appropriate token driver and click on Save button.

If DSC token is not I Select Custom and	isted below, provide path to the driver			
Select DSC token	TRUSTKEY	Tr	ustkey	-
Token Driver s\Syst	em32\TRUSTKEYP11_ND	_v34.c	jii Sa	ve

If the token available is not listed in the predefined USB token list, select the Custom option.
 Then click on the folder icon to manually select the matching driver file for the custom token.
 Select the appropriate file and click Save button to save the driver.

If DSC token is not listed Select Custom and provi		
Select DSC token	CUSTOM USB TOKEN Custo	om 👻
Token Driver C:\Windov	vs\System32\SignatureP11.dll	3

9. Disconnect and Reconnect token to reinitialize token with new driver.



2. Browser Configuration

The browser must be configured prior to the use of DSCSigner tool to configure the browser to trust the DSCSigner Client. The configuration for the browsers are given below.

2.1. Mozilla Firefox

1. Open Mozilla Firefox and type the following in the address bar and press enter.

about:preferences#privacy

2. Scroll down to view the Certificate section and click on the **View Certificates** button to open the certificate manager.

Detions	× +				- 2	-	0	\times
+ Ofinitier aboutprefere	nces#privacy		\$ C	+	ń		ø	≡
General General Scarch Privacy & Security Firefox Account	Block dangerous and deceptive content Block dangerous downloads Warn you about unwanted and uncommon software Certificates When a server requests your personal certificate Select one automatically Ask you every time Query OCSP responder servers to confirm the current validity of certificates	D Find in Options						
	Offline Web Content and User Data Your application cache is currently using 0 bytes of disk space I gell you when a website asks to store data for offline use The following websites are allowed to store data for offline use:	Security Devices_ Clear Now Exceptions_						
	n							

3. In the Certificate Manager popup, click on the Authorities tab and then click on Import button.

	Certifica	te Manager	
Your Certificates People Servers	Authorities	Others	
You have certificates on file that identify these cer	tificate authorities		
Certificate Name		Security Device	c,
✓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			
Actalis Authentication Root CA		Builtin Object Token	
View Edit Trust Import Ego	ort <u>D</u> elete o	r Distrust	ОК
			- OK

4. Browse to DSCSigner/ssl folder and select the rootCA.crt file and click on the Open button.

😉 Select File containing CA o	certificate(s) to import		×
\leftarrow \rightarrow \checkmark \uparrow \square \ll DSC	Signer V.1.0 > DSCSigner > ssl	✓ Ö Search ssl	Q
Organize 🔻 New folder			- 🔳 🕐
📃 Desktop 🛛 🖈 ^	Name	Date modified Ty	/pe
🔶 Downloads 🖈	🛱 dscsigner.dev.crt	06-12-2017 16:21 Se	ecurity Certificate
🚆 Documents 🖈	🔄 rootCA.crt	06-12-2017 14:11 Se	ecurity Certificate
 Pictures documents dsc dscsigner.dev.ss employee OneDrive Documents Pictures Projects 			
¥	me: rootCA.crt	✓ Certificate Files (*.p Open	7b;*.crt;*.ce > Cancel

5. Check the **Trust this CA to identify websites** and click on OK button to complete the root certificate export.

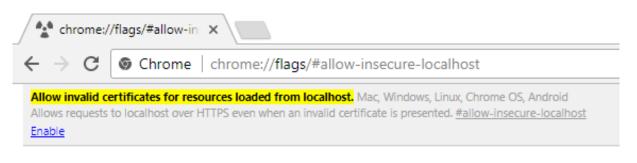
Downloading Certificate	×
You have been asked to trust a new Certificate Authority (CA).	
Do you want to trust "DSCSigner Root CA" for the following purposes?	
✓ Trust this CA to identify websites.	
Trust this CA to identify email users.	
Trust this CA to identify software developers.	
Before trusting this CA for any purpose, you should examine its certificate and its policy and procedures (if available).	
View Examine CA certificate	
OK Cancel	

6. The configuration is complete and now you can use Mozilla Firefox for digital signing using DSCSigner.

2.2. Google Chrome

1. Open Google Chrome browser and type the following in the address bar and press enter:

chrome://flags/#allow-insecure-localhost



2. Click on Enable link to allow Chrome to securely communicate with DSCSigner client. Now to apply the settings and restart Chrome browser click on Relaunch Now button at the bottom of the page

Your changes will take effect the next time you relaunch Google Chrome.

RELAUNCH NOW

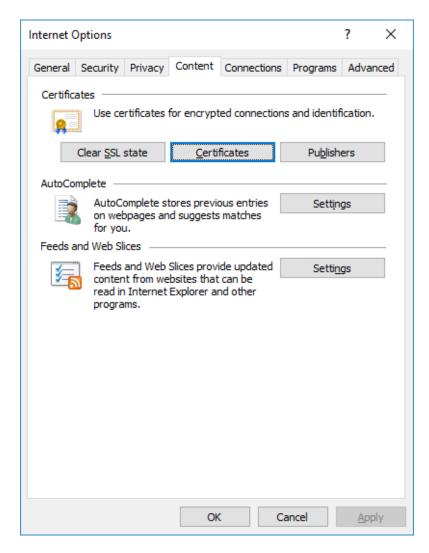
3. The configuration is complete and now you can use Google Chrome for digital signing using DSCSigner.

2.3. Microsoft Internet Explorer

1. Open Internet Explorer and click on the Tools menu and then click on Internet Options.



2. Select the Content tab and then click on Certificates button



3. Now click on the Trusted Root Certificates tab and click on Import button.

ntermediate Certification	on Authorities	Trusted Root C	ertification Aut	horities	Trusted Pub	e
Issued To	Issued 8	By .	Expiratio	Friend	y Name	1
AddTrust External	AddTrus	t External CA	30-05-2020	The US	ERTrust	1
Baltimore CyberTr	u Baltimor	e CyberTrust	13-05-2025	DigiCer	t Baltimor	
CCA India 2011	CCA Ind	ia 2011	11-03-2016	CCA In	dia 2011	
CCA India 2014	CCA Ind	ia 2014	05-03-2024	<none< td=""><td>></td><td></td></none<>	>	
CCA India 2015 S	PL CCA Ind	ia 2015 SPL	29-01-2025	CCA In	dia 2015	
CCA Mauritius 202	12 CCA Ma	uritius 2012	09-05-2022	<none< td=""><td>></td><td></td></none<>	>	
Certum CA	Certum	CA	11-06-2027	Certur	1	
Certum Trusted N	e Certum	Trusted Netw	31-12-2029	Certur	n Trusted	
Class 3 Public Print	a Class 31	Public Primary	02-08-2028	VeriSig	n Class 3	
Import Expo	rt 8	temove			Advar	nce
Certificate intended pur	poses					

4. The Certificate Import wizard, click on Next button.



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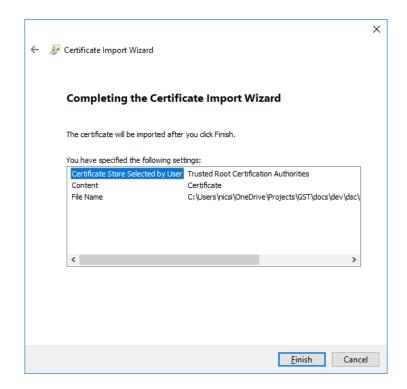
5. Browse the rootCA.crt file provided in the **DSCSigner\ssl** folder and click on Next button.

÷	🖉 Certificate Import Wizard	×
	File to Import Specify the file you want to import.	
	Eile name: C:\DSC Signer V.1.0\DSCSigner\ssl\rootCA.crt 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)	
	<u>N</u> ext Canc	el

6. Click Next on the following screen

Certificat	e Store				
Cert	ficate stores are s	system areas wł	nere certificates	are kept.	
the o	lows can automati ertificate.) A <u>u</u> tomatically se				
-	Place all certification			on the type of t	eruncate
	Certificate store		ang store:		
		c. Certification Aut	horities		Browse

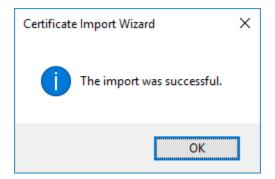
7. Then click Finish button



8. Click on Yes in the following dialog

Security V	Narning	\times			
	You are about to install a certificate from a certification authority (CA) claiming to represent: DSCSigner Root CA				
	Windows cannot validate that the certificate is actually from "DSCSigner Root CA". You should confirm its origin by contacting "DSCSigner Root CA". The following number will assist you in this process:				
	Thumbprint (sha1): CA764932 397DB047 89CC627B D0BAA84D 2D55DAB9				
	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 <u>N</u> o				

9. The following message will be shown. Click **OK**.



10. Now you can use internet Explorer for digital signing using DSCSigner.