



Integration of D-Trust in NoSpamProxy Encryption

Version 15

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Notes and requirements

The following hardware and software is required to use D-Trust certificates in NoSpamProxy Encryption:

- Smartcard
- Card reader
- PIN
- neXus Personal Desktop
- OpenSSL



NOTE: The certificate that is stored on the smart card cannot be exported or used directly in NoSpamProxy. It is only used for authentication as operator on the web interface. You then use the certificate to generate a system certificate that is stored in NoSpamProxy to use the connector.



NOTE: OpenSSL is included in Linux operating systems by default. An installer file for free installation of OpenSSL on Windows can be found at <http://slproweb.com/products/Win32OpenSSL.html> .

Browser settings (Firefox)

To enable your card reader to communicate with the smart card through nexXus Personal, you must make the following settings in your Firefox browser:

1. Open Firefox and go to **Settings**.
2. Go to **Privacy & Security** and scroll to **Certificates**.
3. Click **Security Devices** and then **Load**.
4. Assign any module name and click **Browse**.
5. Navigate to the Nexus program directory:
 - 32-Bit OS: **C:\Program Files\Personal\bin**
 - 64-bit OS: **C:\Program Files (x86)\Personal\bin**
 - 64-bit OS and Firefox 64-bit: **C:\Program Files (x86)\Personal\bin64**
6. Select the **personal.dll** program library (Firefox 64-bit: **personal64.dll**).

7. Click **OK**.



The following view can be seen in the overview of the Firefox browser after creation:

Sicherheitsmodule und -einrichtungen	Details	Wert	
▼ NSS Internal PKCS #11 Module	Status	Eingeloggt	Anmelden (Log In)
Allgemeine Krypto-Dienste	Beschreibung	SCM Microsystems Inc. SPRx32 USB S...	Abmelden (Log Out)
das Software-Sicherheitsmodul	Hersteller	SCM Microsystems Inc. SPRx32 USB	Passwort ändern
▼ Eingebaute Wurzelmodule	HW-Version	255.255	Laden
NSS Builtin Objects	FW-Version	5.16	Entladen
▼ Nexus	Etikett	X-Safe Karte 1.0 1ca (PIN)	FIPS aktivieren
Crypto Token Reader	Hersteller	D-TRUST GmbH (C)	
SCM Microsystems Inc. SPRx32 USB Smart ...	Seriennummer	7BFF207E7C051F01	
SCM Microsystems Inc. SPRx32 USB Smart ...	HW-Version	1.0	
	FW-Version	1.0	

OK

Integrating D-Trust into NoSpamProxy

Creating a system certificate

1. Log on to the Certificate Service Manager (CSM).



- Test access to the CSM: <https://staging.d-trust.net/csm>
- Regular CSM: <https://my.d-trust.net/csm/>

2. Click **Login mit Operatorkarte**.



A window of the neXus Personal software opens.

3. Enter your PIN.
4. Create a key using OpenSSL by entering the following on the command line:
`openssl genrsa -out private.key 2048`

5. Create a Certificate Signing Request (CSR) via OpenSSL using the key:

```
openssl req -new -key private.key -out request.csr
```

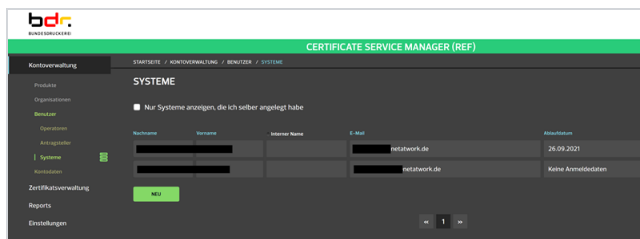
6. Open the file **request.csr** and copy the content to the clipboard.

```
-----BEGIN CERTIFICATE REQUEST-----
MIICp1CCAY4CAQAwYTELMAkGA1UEBHMCREUxDDAKBgNVBAGMA05SVzESMBAGA1
BwwJUGFkZXJ1b3J1MRcwFQYDVQQKDA50ZXRhHdvcmsgR211SDEXMBUGA1UECw
TmV0YXR3b3JrIEEdYk9wY290IRz3HH5MU37yRU4/MF8orFhwJFdlvWuqRHuy2GEpHLWDOXTa
ON12XihHU/3B0e+Zsb4woS6w21eHVc66Mee9i0NygsOMPoeBGS+zT7DVkVqKjF
zjkjdj03p9CzX0qIRz3HH5MU37yRU4/MF8orFhwJFdlvWuqRHuy2GEpHLWDOXTa
EuMARKURV2Vi t1FKbpC56xqd4BB1Xi dJgE8hShBwsq3pmLo5w3MJcwcD9h IzPm
/3v5dt7tdboft196Fp+JhE1VmaZWtpInwFyePTrQH1FU16fknHLS6qe63EhwvG
P9yuFSe8jAhZcu9k0f+TZ40Z1pTodMkYgXUuxcdwK06TJkMMzJZmgX/q6yDvtB
16JcxDKACA99gMryCQMbAgMBAAGgADANBgkqhkiG9w0BAQsFAAOCAQEAq2voeB
U9E1AX2df9TOSk1+QLs1of7rPcu8Kdvja1dDpNDw6vH04667MGucxZJrk4rrwd
Zwq96BQXnVppTTf9A1kSWV5gSMyz8eOXES0Bmr mnsPbp0QJjgYVGZz+aG0PN8
+UXEe2tLtgMp31m/uRZFDgA1xvq1Fne/kmHmwFkDyWAp1Bqin2n13GCWgtaznN
LKJ34EGEGaseV8ho/Y5cPvtE64uneCmfPie17Dg+LaT29H3H0dN05zw0khvM
Mw4VStc7Ntch33r+vQF9zsZyX+pHeanYWI2s+5us4YtkFGJDL0CRUdpQEDD/i
1aFrNyZPR+NQTW==
-----END CERTIFICATE REQUEST-----
```

Integrating D-Trust into NoSpamProxy

Sending the system certificate to D-Trust

1. Open the Certificate Service Manager.
2. Go to **Startseite > Kontoverwaltung > Benutzer > Systeme** .



3. Click **Neu**.

4. Scroll to the bottom of the page.

STARTSEITE / KONTOVERWALTUNG / BENUTZER / SYSTEME / SYSTEM HINZUFÜGEN

SYSTEM HINZUFÜGEN

Persönliche Daten / Organisationsberechtigungen

Interner Name

Personenangaben

Anrede

Akademischer Titel

Vorname

Nachname

Telefon

E-Mail

Arbeitgeber

Arbeitgeber Firmenname	Net at Work GmbH
Abteilungsname	-
Straße / Hausnummer	Am Hoppenhof 32a
Postleitzahl	33104
Stadt	Paderborn
Land	Deutschland (DE)
Adresszusatz	-

CSR hochladen (optional)
Wenn Sie einen CSR angeben, wird der darin enthaltene öffentliche Schlüssel bei der Erzeugung des Zugangstokens verwendet. Die im CSR enthaltenen Zertifikatsantragsdaten werden nicht berücksichtigt; die Zertifikatsinhalte des Zugangstokens werden vom TSP festgelegt. Wenn Sie keinen CSR angeben, wird der öffentliche Schlüssel vom TSP generiert. Sie erhalten das Zugangstoken in diesem Fall in Form einer P12-Datei, deren zugehörige PIN Ihnen per Post zugestellt wird.

DATEI AUSWÄHLEN Nicht ausgewählt

```
-----BEGIN CERTIFICATE REQUEST-----
MIICpCCAY4CAQAwYTELMAkGA1UEBhMCREUxDzAKBgNVBAgMA055vzESMBAGAE
BjwUIGRlZmVudC51aHRlcwYDVOQDA5O2R0b3RhdwpmgR2YSURAMBUGA1UECwwD
TmV0YXR3b3J3aGlzYkpwZzEMAOGCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDM
ONTX8HhU/3BD0e-Zsb-4woS6w2teHvc96Mee90NypgOMP0nBGS+2TDVkvqkF7X
z9693pCz2dqR2-3HSHM137yRlU4/MP5ierfwaJdVkuqRhs2ZGepHLD0DX39b
EuMAKURV2VilTFKbpC56xq44BTXGjg8HSHBwsg3pmL05w3MlcwCDNzPm3V
/Av5dt7dbQh09Fp-jHElVmsZWtpnWlyePTrQHfU76Rk9HLSaq63EhwVCLY
R0u4fCw8Ibh7F-d8H7-T74777nT5MAMVc1k1u4rH8K7C76MM47Dm4k77eufu7uB2k
```

ABRECHEN **ANLEGEN**

5. Enter an internal name for the system.

6. Perform one of the following two steps:

- Click **Datei auswählen** and upload the **request.csr** file.
- Copy the contents of the file **request.csr** from the clipboard into the green input field.

7. Click **Anlegen**.



NOTE: The certificate is now being processed. The corresponding PIN will be sent to you by post.



TIP: You can check the status of your access token under **Startseite > Einstellungen > Meine Zugangstoken**.

Creating the key material

After the previous steps have been carried out, you will receive an email from D-Trust containing the public key as an attachment. With the help of this public key and the private key, you now create the required key material.

1. Enter the following on the command line:

```
openssl pkcs12 -export -inkey path/private/key.key -in path/public/key.pem -name mail  
-out NameDesKeypair.pfx
```



NOTE: Specify the corresponding paths and the name for the key pair.

2. In the NoSpamProxy Command Center, go to **Identities > Certificates > Certificate management**.
3. Click **Import** and then **Select certificates**.
4. Select the created certificate and click **Next**.
5. Click **Finish**.

Integrating D-Trust into NoSpamProxy

1. In the NoSpamProxy Command Center, go to **Identities > Cryptographic key requests > Key request providers**.
2. Click **Add**.
3. Select **D-Trust** as type and click **Next**.
4. Specify a provider name and select the operator certificate.
5. Enter the name of the certificate template and, if requested, the operator address.



NOTE: You can find the name of the certificate template in the D-Trust Certificate Service Manager under **Kontoverwaltung > Produkte > Produktdetails**.

6. Click **Next** and then **Finish**.

Help and support

Knowledge Base

The [Knowledge Base](#) contains further technical information on various problems.

Website

The [NoSpamProxy website](#) contains manuals, white papers, brochures and other information about NoSpamProxy.

NoSpamProxy Forum

The [NoSpamProxy forum](#) gives you the opportunity to exchange information with other NoSpamProxy users, get tips and tricks and share them with others.

Blog

The [blog](#) offers technical support, tips on new product versions, suggestions for changes to your configuration, warnings about compatibility problems and much more. The latest news from the blog is also displayed on the start page of the NoSpamProxy Command Center.

YouTube

On our [YouTube](#) channel you will find tutorials, how-tos and other product information that will make working with NoSpamProxy easier.

NoSpamProxy Support

You can reach our support team

- by phone at +49 5251304-636
- by email at support@nospamproxy.de.

