
Digidoc Open-EID - Installation instructions for Debian 10 Buster

Jens Getreu

Table of Contents

1. ID-software - What is this?	1
2. Installation	2
2.1. Add repository with installer script	2
2.2. Install broken “awp”-package	4
2.3. Install Open-EID meta package	4
3. Testing	4

This note shows how to install the Estonian Electronic Identity Software on Debian 10 “Buster”.

Update 20191023: Although not officially supported, RIA decided to modify their software in a way that it also runs on Debian 10 Buster. The following is not needed any more as the installer script is working now out of the box.

1. ID-software - What is this?

ID-software allows you to use your ID-card electronically - use private and governmental e-services, digitally sign documents and encrypt documents for safe transfer. During ID-software installation 3 programs are installed into your computer: ID-card utility, DigiDoc4 client and DigiDoc4 crypto. With ID-card utility you can check the functioning of your ID-card and certificate validity, change PIN and PUK codes. The ID-card utility window displays the ID-card owner’s data and ID-card validity data. This information is constantly visible when ID-card utility is running. ID-card utility enables you to perform actions with certificates (extend them, change and unblock PIN codes and PUK code), configure @eesti.ee email address.

2. Installation

2.1. Add repository with installer script

The following targets Debian 10 only. For completeness see also the [official Ubuntu instructions](#)¹.

1. Download the installer script `install-open-eid.sh`.

The installer script is hosted on [linux-installer/install-open-eid.sh](#) at [master](#) · [open-eid/linux-installer](#) · [GitHub](#)² ³

```
wget https://raw.githubusercontent.com/open-eid/linux-installer/master/install-open-eid.sh
```

2. Modify installer script

- Search for:

```
# Debian lacks https support for apt, by default
sudo apt-get install apt-transport-https
case $codename in
```

Replace with:

```
# Debian lacks https support for apt, by default
sudo apt-get install apt-transport-https
case $codename in
    wheezy)
        add_repository trusty
        ;;
    stretch)
        add_repository xenial
```

¹ <https://installer.id.ee/?lang=eng&os=linux>

² <https://github.com/open-eid/linux-installer/blob/master/install-open-eid.sh>

³ I tested this version: [linux-installer/install-open-eid.sh](#) at [b2faf5c8997358c3da28b3dfd-fce950d21bc6417a](#) · [open-eid/linux-installer](#) · [GitHub](#) [<https://github.com/open-eid/linux-installer/blob/b2faf5c8997358c3da28b3dfd-fce950d21bc6417a/install-open-eid.sh>]

Digidoc Open-EID - Installation instructions for Debian 10 Buster

```
;;
buster)
  add_repository cosmic
;;
```

- Disable Chrome support.⁴

Search for:

```
make_install open-eid chrome-token-signing-policy
```

Replace with:

```
#make_install open-eid chrome-token-signing-policy
```

- Search for:

```
/usr/bin/esteid-update-nssdb
```

Replace with:

```
#!/usr/bin/esteid-update-nssdb
```

3. Grant execution permissions:

```
chmod 775 install-open-eid.sh
```

4. Execute installer script:

```
./install-open-eid.sh
```

⁴ At the time of writing, the packet `chrome-token-signing-policy` was not yet available. Skip this when it becomes available.

2.2. Install broken “awp”-package

At the time of writing this note the `awp`-package is broken. Use the following workaround⁵:

```
sudo apt update
sudo apt install awp
```

The above command will finish with an error message.

```
sudo /var/lib/dpkg/info/awp.postinst
sudo rm /var/lib/dpkg/info/awp.postinst
# Just in case:
sudo dpkg --configure awp
sudo apt-get install -yf
```

2.3. Install Open-EID meta package

Once the broken `awp` is installed successfully, the remaining packages can be installed.

```
sudo apt install open-eid
```

The `open-eid` meta-package will install the following packages: `awp`, `chrome-token-signing`, `firefox-pkcs11-loader`, `libdigidoc-tools`, `libdigidocpp-tools`, `libnss3-tools`, `qdigidoc-tera` and `qdigidoc4`.

3. Testing

1. Make sure the smart card service is in status “active”:

```
sudo service pcscd status
```

⁵ A reader reported [<https://www.debian-fr.org/t/installation-package/79727>] you can simply install the package with `sudo apt install awp` instead.

Digidoc Open-EID - Installation instructions for Debian 10 Buster

Check success:

```
.....  
Jul 15 04:56:56 myhost systemd[1]: pcscd.service: Succeeded.  
.....
```

If necessary start it with:

```
.....  
sudo service pcscd start  
.....
```

2. Digidoc4

- a. Insert ID card in card-reader.
- b. Launch Digidoc4 application

```
.....  
qdigidoc4  
.....
```

- c. Check: in the first line your name should appear and next to your "Isikukood" the text "ID-card in card reader" is displayed.

3. Firefox plugin

Close *all* Firefox instances and start Firefox again.

To check if the `Digidoc Open-EID` extensions are properly installed in *Firefox Quantum*, open in the main menu: `Tools->Add-ons->extensions`.

Here you should see two extensions loaded:

- Firefox PKCS11 loader (Configures Firefox to use PKCS11 for authentication)
- Token signing (Use your eID smart card on the web)

Now you should be able to connect to your bank using your ID-card.