



EID Software overview

Based on ver. 19.7

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Version information		
Date	Version	Changes/Notices
21.01.2019	19.01/1	Public version, based on 18.12 software
24.07.2019	19.7/1	Added .exe installation option for Chrome signing support activation and updated to 19.7 software version Changer: Kristel Merilain

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Introduction

There are many updates in the new ID card software. In this document, we give a brief overview for IT professionals about how it works and how to manage it in an enterprise. The guide's images are for illustrative purposes only and are taken from software version 19.7.

EID software overview

The new software is composed of many separate MSI installation files bounded to one EXE. To unpack all MSI files in EXE you just need to start EXE with /layout parameter (Open-EID...EXE /layout).

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Nimi	Muutmiskuupäev	Tüüp	Maht
AWP-5.3.1-SR4.x64.en-US.msi	24.07.2019 8:44	Windows Installer...	12 948 kB
AWP-5.3.1-SR4.x64.et-EE.msi	24.07.2019 8:44	Windows Installer...	12 948 kB
AWP-5.3.1-SR4.x86.en-US.msi	24.07.2019 8:44	Windows Installer...	8 380 kB
AWP-5.3.1-SR4.x86.et-EE.msi	24.07.2019 8:44	Windows Installer...	8 380 kB
chrome-token-signing_1.0.9.507.x64.msi	24.07.2019 8:44	Windows Installer...	916 kB
chrome-token-signing_1.0.9.507.x86.msi	24.07.2019 8:44	Windows Installer...	916 kB
Digidoc_ShellExt-3.13.6.3.x64.msi	24.07.2019 8:45	Windows Installer...	788 kB
Digidoc_ShellExt-3.13.6.3.x86.msi	24.07.2019 8:45	Windows Installer...	764 kB
Digidoc4_Client-4.2.2.51.x64.en-US.msi	24.07.2019 8:44	Windows Installer...	13 760 kB
Digidoc4_Client-4.2.2.51.x64.et-EE.msi	24.07.2019 8:44	Windows Installer...	13 760 kB
Digidoc4_Client-4.2.2.51.x86.en-US.msi	24.07.2019 8:44	Windows Installer...	12 528 kB
Digidoc4_Client-4.2.2.51.x86.et-EE.msi	24.07.2019 8:45	Windows Installer...	12 528 kB
firefox-pkcs11-loader_3.13.3.1077.x64.msi	24.07.2019 8:44	Windows Installer...	3 068 kB
firefox-pkcs11-loader_3.13.3.1077.x86.msi	24.07.2019 8:44	Windows Installer...	1 736 kB
ID-Updater-3.12.6.1021.x64.msi	24.07.2019 8:44	Windows Installer...	17 676 kB
ID-Updater-3.12.6.1021.x86.msi	24.07.2019 8:44	Windows Installer...	14 560 kB
ie-token-signing_3.13.0.993_x64.msi	24.07.2019 8:44	Windows Installer...	2 432 kB
ie-token-signing_3.13.0.993_x86.msi	24.07.2019 8:44	Windows Installer...	1 460 kB
minidriver-3.12.2.158.x64.msi	24.07.2019 8:44	Windows Installer...	1 852 kB
minidriver-3.12.2.158.x86.msi	24.07.2019 8:44	Windows Installer...	1 484 kB
Open-EID-19.7.0.1837_x86.exe	23.07.2019 10:41	Rakendus	687 kB
TeRa_x64.1.1.0.13.en-US.msi	24.07.2019 8:45	Windows Installer...	18 452 kB
TeRa_x86.1.1.0.13.en-US.msi	24.07.2019 8:45	Windows Installer...	15 224 kB
vcredist_14.0.24215.0.x64.exe	24.07.2019 8:44	Rakendus	14 944 kB
vcredist_14.0.24215.0.x86.exe	24.07.2019 8:44	Rakendus	14 119 kB

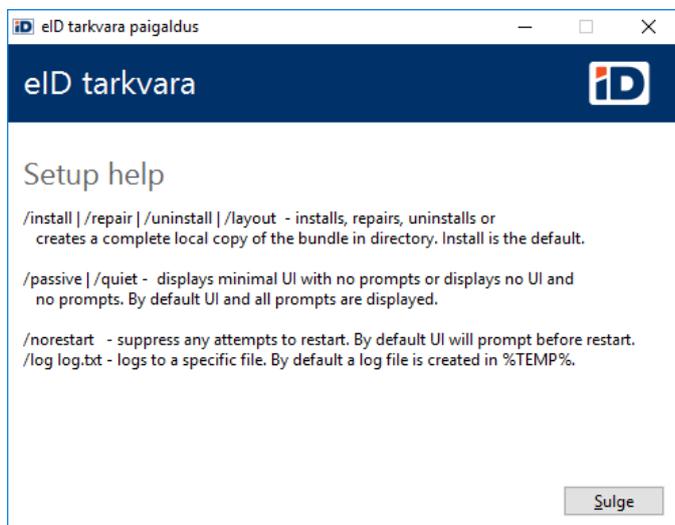
Picture 1 - installation files for version 19.7

To review the options available with new EXE-based installation, let's start EXE with parameter /?:



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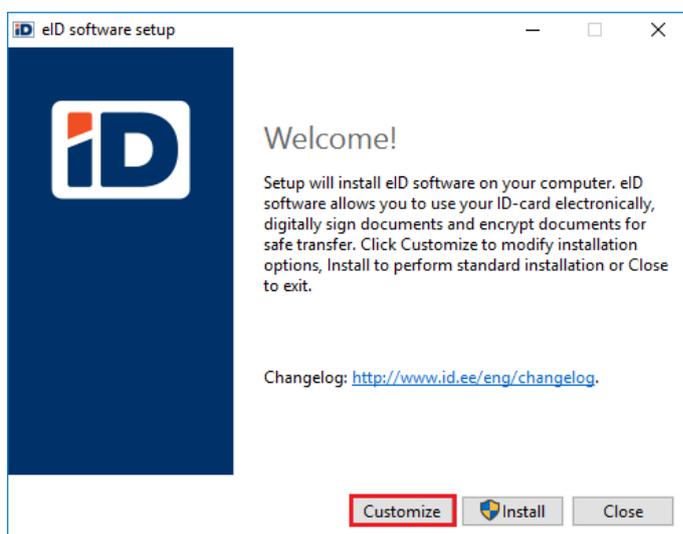
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Picture 2 - installation options

The easiest way to start EID software installation is to start the EXE without any parameter. User interface guides us through installation steps and usually it is enough for manual installations.

If we want to make modifications to our installation, we must select *Customize* in the beginning of installation:



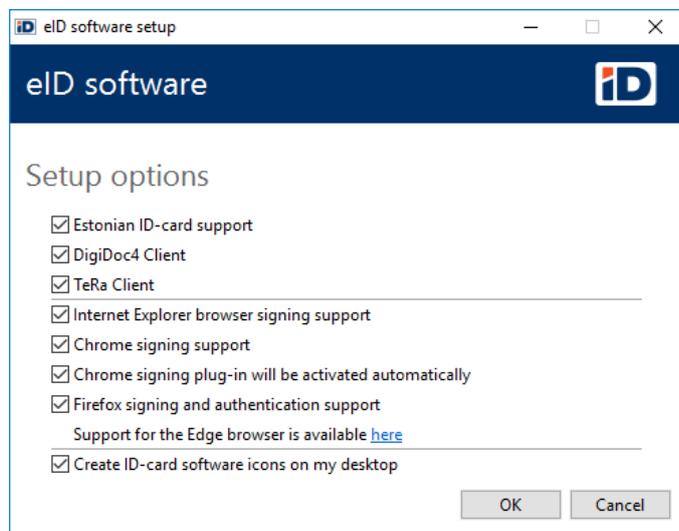
Picture 3 - customize installation

Customization options are:

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Picture 4 - customization options

By default, all components are installed.

Note: Firefox or Chrome must not be installed for plugins installation. Plugins are usable/available even if Firefox or Chrome is installed after EID software installation. Edge plugin is currently supported only by “manual” installation.

Briefly about components

AWP*

AWP* is software for “new” Idemia card (including mindriver).

Inside AWP is component OTCertSynchronizer, it removes certificates from Windows certificate store when user removes ID-card from the card reader.

By default all certificates are removed from store.

In order for OTCertSynchronizer to remove only Idemia card certificates, the registry must set HKLM\SOFTWARE\Oberthur Technologies\CertSync\unknown_card (dword) to 0.

By default, the registry doesn't exist and the value is considered as “1”.

ID Updater (ID-Updater)

ID updater installs mandatory system components and it is surely required for running EID programs.

Est-Eid minidriver (minidriver)

EST-EID minidriver installs “old” Gemalto card minidriver - system component for communication with Estonian “old” digital ID cards.

IE Plugin (ie-token-signing)

IE Plugin enables Internet Explorer Estonian ID and/or Digi-ID card signing functionality.

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Google Chrome plugin (chrome-token-signing)

Google Chrome Plugin enables Google Chrome Estonian ID and/or Digi-ID card signing functionality.

Firefox Plugin (firefox-pkcs11-loader)

Firefox plugin enables ID card functionality in Firefox.

DigiDoc4 Client (Digidoc4-Client)

DigiDoc4 client installs Digidoc4 software, what enables documents signing and encryption. Current version of the software includes old ID card utility functionality, so we can use the same program for managing our ID cards (view certificates, change PIN, etc...)

Signing documents with mouse right-click (Digidoc_ShellExt)

This component allows starting digidoc signing by mouse right-clicking on file.

TeRa Client

With this tool users can find and time-stamp digidoc documents.

VCREDIST

Support software.

In enterprise

In big and medium enterprises ID card software is usually installed and controlled centrally by IT teams. Usually ID card software is installed and controlled using SCCM¹ and/or AD/GP² possibilities.

The following list of options is available for unattended ID card software “command line” installations:

1. AutoUpdate, =0 does not add “id updater” scheduled task.
2. IESupport, =0 does not add IE plugins.
3. ChromeSupport, =0 does not add Chrome plugins.
4. ForceChromeExtensionActivation, =0 does not activate automatically Chrome signing plugin.
5. FirefoxSupport, =0 does not add Firefox plugins.
6. MinidriverInstall, =0 does not add minidriver.
7. Qdigidoc4Install, =0 does not install Digidoc software.
8. IconsDesktop, =0 does not add ID card software icons to desktop.
9. TeRaInstall=, =0 does not install TeRa utility.
10. InstallFolder=, =“installation path“. Please use this functionality only in special cases. In case of later software update you must use the same path to avoid programm installation to different folders. It is not tested by OctoX.
11. InstallX64=, =1 forces installation of 64 bit client. It is not tested by OctoX.

¹ System Center Configuration Manager

² Active Directory / Group Policy

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Options are case sensitive!

For example „OpenEID._???.exe /quiet AutoUpdate=0 IconsDesktop=0 “ installs ID Card software in unattended mode and:

- 1) Does not add task “id updater” to scheduled tasks list;
- 2) Does not add software icons to desktop.

For running ID card software, it is enough to run the EXE file - the process automatically downloads all MSI components (x86 or x64, Est or Eng) regarding to installation options.

In enterprises, it is strongly recommended to download all necessary MSI components to the same folder with the EXE file before starting central deployment - in this case nothing will be downloaded from the internet during installation, but local copy is used! For downloading all MSI files to the same folder with EXE file just start EXE with /layout switch! Today (24.07.2019) there are total 25 files including EXE file!

Nimi	Väljaandja	Installimisa	Maht	Versioon
✓ eID software	RIA	24.07.2019	195 MB	19.7.0.1837
Microsoft OneDrive	Microsoft Corporation	29.03.2019	84,8 MB	17.3.6816.0313
Microsoft Visual C++ 2015 Redistributable (x86) - 14.0...	Microsoft Corporation	28.03.2019	19,5 MB	14.0.24215.1
✓ Windows Driver Package - IDEMIA SmartCard (04/24...	IDEMIA	24.07.2019		04/24/2019 1.2.0.292
✓ Windows Driver Package - RIA (Estonian National ID ...	RIA (Estonian National ID Card)	24.07.2019		02/21/2018 3.12.2.158

Picture 5 - EXE install in control panel

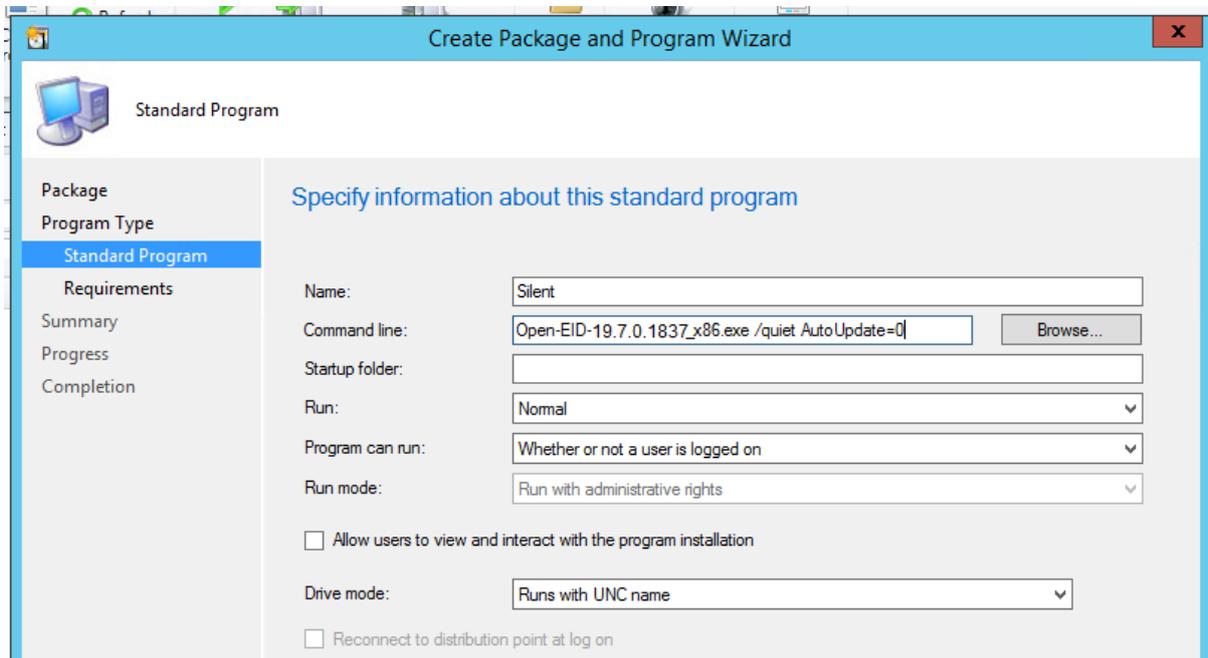
SCCM

Using SCCM for ID card software installation create installation package with source files (including EXE and MSI-s) and for simple installation create command line „OpenEID....exe /quiet AutoUpdate=0“:

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Picture 6 - sample install

AD/GP

In case you do not have central software management system like SCCM in enterprise, but you have *Active Directory*, it is possible to use *Group Policy* functionality for ID card software installation. In this case, we must use multiple MSI files for software installation. We recommend creating ID card MSI software installations per computer and not per user!

Please be aware that MSI installations are recommended only for new installations! MSI components do not remove any previous (or current) version of EXE installations! You should use only EXE or only MSI installations in your environment.

You can find the overview of different MSI components used from the chapter above “Briefly about components”. Below is a brief overview about how to create GPO-MSI installations.

ID Updater (ID-Updater)

Mandatory component, we recommend installing it first!

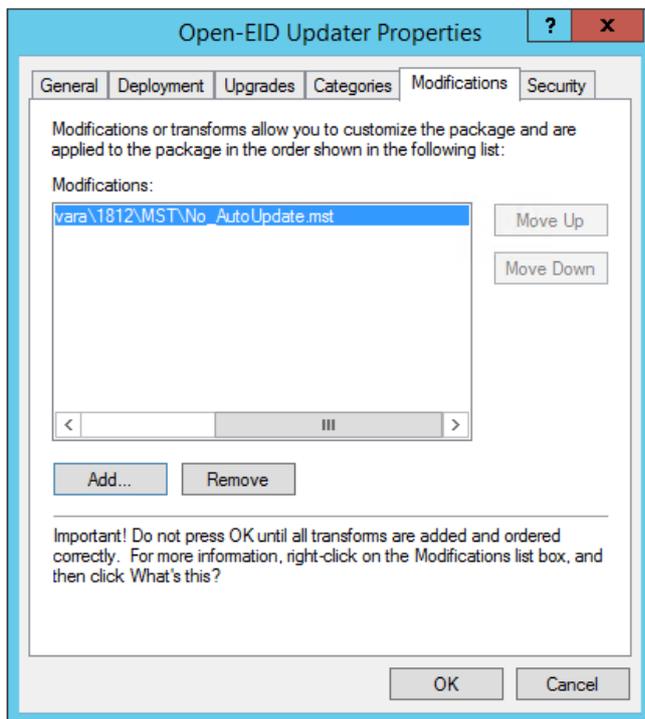
Options:

- If we do not want to activate automatic software update functionality, we must use transform file No_AutoUpdate.mst with this MSI!

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Picture 7 - sample about adding transform file to MSI installation

Est-Eid minidriver (minidriver)

This mandatory component installs minidriver for “old” Gemalto card. It can also be automatically downloaded from Windows Update, but in enterprises we recommend installing it centrally.

AWP

This mandatory component installs software for “new” Idemia card (including minidriver).

Inside AWP is component OTCertSynchronizer, it removes certificates from Windows certificate store when user removes ID-card from the card reader.

By default all certificates are removed from store.

In order for OTCertSynchronizer to remove only Idemia card certificates, the registry must set HKLM\SOFTWARE\Oberthur Technologies\CertSync\unknown_card (dword) to 0.

By default, the registry doesn't exist and the value is considered as “1”

IE Plugin (ie-token-signing)

Usually recommended component allows signing with IE.

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Google Chrome plugin (chrome-token-signing)

Usually recommended component allows signing with Google Chrome.

Firefox Plugin (firefox-pkcs11-loader)

Necessary component if we need ID card authentication and signing with Firefox.

DigiDoc4 Client (Digidoc4-Client)

Necessary component if we want to use *fat client* for certificate management, document signing and encryption. Options:

- You must use transform file ApplicationFolder_et-EE.MST or ApplicationFolder_en-US.MST according to Digidoc software language version. Using transform file allows component installation to the same folder („PROGRAMFILES\Open-EID“) with mandatory base components!
- Default MSI installation does not add desktop shortcuts. If you want to add desktop shortcuts you also need to add transform file Yes_Desktoplcons_en-US.mst or Yes_Desktoplcons_et-EE.mst according to software language version.

Signing with mouse right-click (Digidoc_ShellExt)

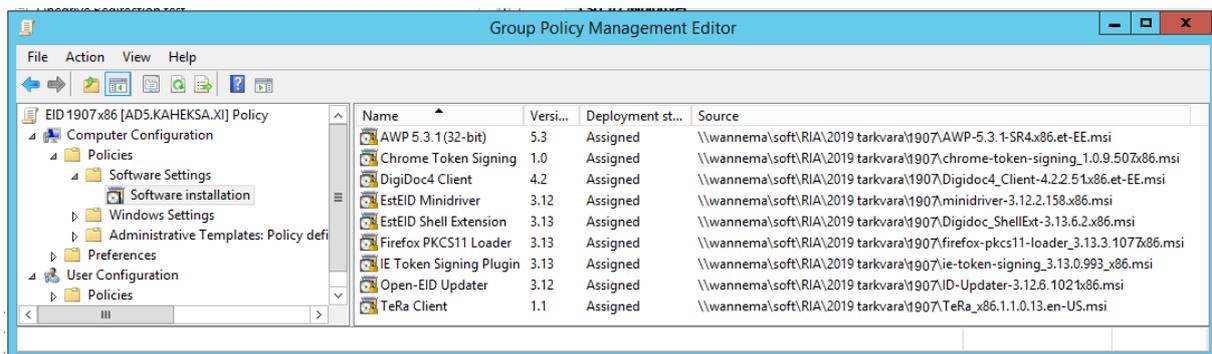
Not mandatory, enables signing files with mouse right-click.

Options:

- You must use transform file ApplicationFolder_et-EE.MST or ApplicationFolder_en-US.MST according to Digidoc software language version. Using transform file allows component installation to the same folder („PROGRAMFILES\Open-EID“) with mandatory base components!

TeRa utility

Necessary component for time-stamping digidoc documents.



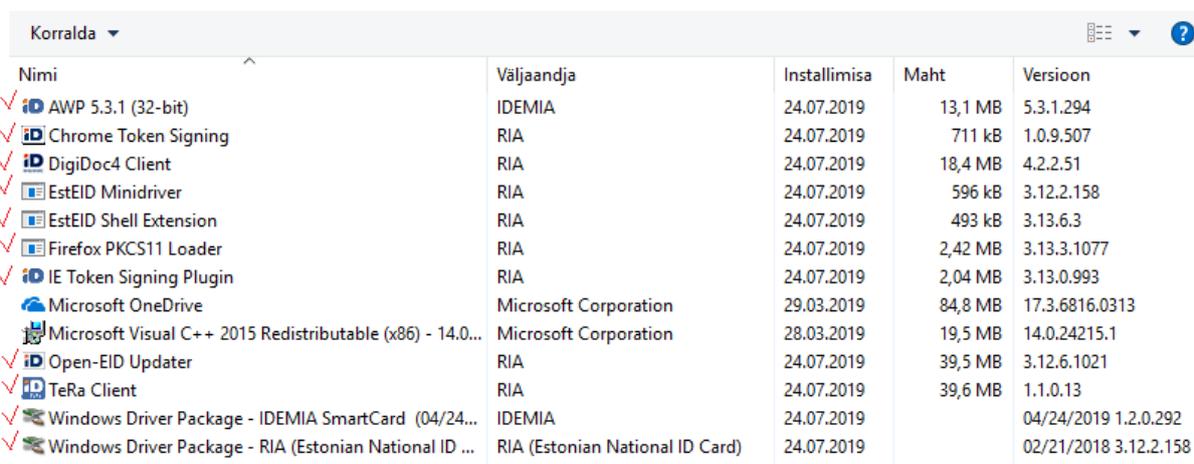
Picture 8 - sample of MSI GPO installation

When installing Estonian ID card software using MSI packages all components are separately shown in the control panel:

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Nimi	Väljaandja	Installimisa	Maht	Versioon
✓ AWP 5.3.1 (32-bit)	IDEMIA	24.07.2019	13,1 MB	5.3.1.294
✓ Chrome Token Signing	RIA	24.07.2019	711 kB	1.0.9.507
✓ DigiDoc4 Client	RIA	24.07.2019	18,4 MB	4.2.2.51
✓ EstID Minidriver	RIA	24.07.2019	596 kB	3.12.2.158
✓ EstID Shell Extension	RIA	24.07.2019	493 kB	3.13.6.3
✓ Firefox PKCS11 Loader	RIA	24.07.2019	2,42 MB	3.13.3.1077
✓ IE Token Signing Plugin	RIA	24.07.2019	2,04 MB	3.13.0.993
Microsoft OneDrive	Microsoft Corporation	29.03.2019	84,8 MB	17.3.6816.0313
Microsoft Visual C++ 2015 Redistributable (x86) - 14.0...	Microsoft Corporation	28.03.2019	19,5 MB	14.0.24215.1
✓ Open-EID Updater	RIA	24.07.2019	39,5 MB	3.12.6.1021
✓ TeRa Client	RIA	24.07.2019	39,6 MB	1.1.0.13
✓ Windows Driver Package - IDEMIA SmartCard (04/24...	IDEMIA	24.07.2019		04/24/2019 1.2.0.292
✓ Windows Driver Package - RIA (Estonian National ID ...	RIA (Estonian National ID Card)	24.07.2019		02/21/2018 3.12.2.158

Picture 9 - MSI installations in Control Panel

In some circumstances it can be necessary to restart computer after MSI installation for running EID programs correctly.

Notes:

- Use correct language and platform if available!
- Order of MSI installation components is not really very important, but all components depend from component „Open-EID updater“. We recommend installing it first! Other mandatory components are minidrivers. “Old” Gemalto minidriver is also downloadable from Windows Update.
- MST files can be downloaded from address <https://www.id.ee/index.php?id=37511>.
- It is also recommended to publish related root and intermediate certificates in domain automatically via group policy.