

User Manual of Information System



Client station configuration

This document and its content are confidential. It is forbidden to reproduce the document or its parts, to show it to third parties or to use it for any other purposes than it was provided for without prior written agreement by OTE, a.s.

2016 OTE, a.s.

Date of revision:
27.11.2018

Document name:
Client station configuration

Document version:
EAF2315

Date	Description of revision
30.12.2009	Final version
12.1.2011	Removal of outdated information
5.2.2011	Update new configuration for WIN7, Vista and MS Office
20.6.2011	Configuration for FireFox browser
1.11.2012	Update list of supported workstation configurations (IE v9, FireFox v12)
18.6.2013	Update WS configuration and sign package
12.8.2014	Update list of supported workstation configurations (IE v11, WIN7, WIN8.1)
02.02.2014	Update PKIComponent for FireFox
16.03.2015	Update CGI PKI Component pro IE
23.03.2015	SSL/TLS configuration change
20.12.2016	SafeNet SW and eTokens update
5.1.2017	Add configuration for new web browsers (Google Chrome, Microsoft Edge)
8.3.2018	Removal of outdated information about OTECA, OTECATEST certificates
15.3.2018	Instalation and advanced settings for OTE PKi Client used for access to CS OTE
22.5.2018	Installing new component OTE PKI + setting up for several web-browsers
20.9.2018	Update of Acces over OTE-COM application
27.11.2018	Update of Mozilla Firefox settings for using PKI component

Contents

1	Workstation configuration	3
2	Browsers Google Chrome, Mozilla Firefox and Microsoft Edge	4
2.1	<i>Installation of Component OTE PKi Client for access to CS OTE.....</i>	<i>4</i>
2.2	<i>Post-install configuration.....</i>	<i>6</i>
2.2.1	Importing OTECA authority into Mozilla Firefox browser	6
2.2.2	Dissabling IPV6 DNS in Mozilla Firefox browser	9
2.2.3	Configuring web browser Microsoft Edge	9
2.2.4	Configuration of CS OTE portal	10
2.2.5	Deleting already initialized Local Storage for SW certificates	10
2.2.6	Pairing web application and the component	11
3	Internet Explorer browser settings.....	14
3.1.1	Set up of Trusted sites	14
3.1.2	Check ActiveX component settings	16
3.1.3	Compatibility view setting in Internet Explorer (IE)	18
3.1.4	Secure communication setting configuration.....	20
3.1.5	CGI PKI package installation for Internet Explore	20
3.1.6	Manual installation of CGI PKI sign package for Internet Explorer.....	23
4	Re-registering the Certificate after validity expires	24
5	Instruction for the first access to the production environment of OTE-COM application	25
5.1	<i>Application OTE-COM Launcher Manager.....</i>	<i>25</i>
5.2	<i>Access to AMQP server from market participant's server (Automatic communication)</i>	<i>26</i>

1 Workstation configuration

Supported configuration for workstation operating with CS OTE is following:

Windows 7 (32bit) + MS IE11.0/FireFox(32bit)+ Outlook 2016 /x86

Windows 7 (64bit) + MS IE11.0(32bit)/FireFox(32bit) + Outlook 2016/ x64

Windows 10 (32bit) + MS IE11.0/Edge/FireFox/Chrome-last version + Outlook 2016/ x86

Windows 10 (64bit) + MS IE11.0/Edge/FireFox/Chrome- last version + Outlook 2016/ x64

We recommend to use security updates from <http://windowsupdate.microsoft.com>.

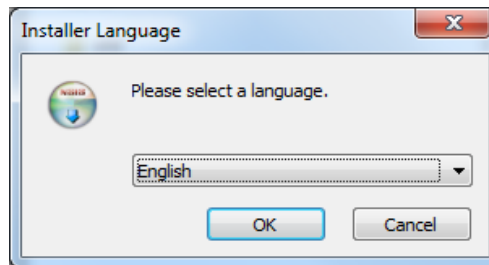
2 Browsers Google Chrome, Mozilla Firefox and Microsoft Edge

2.1 Installation of Component OTE PKi Client for access to CS OTE

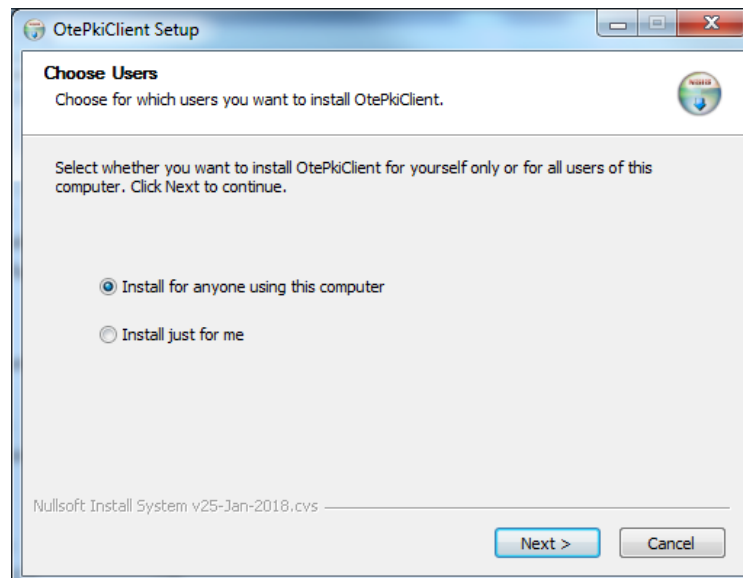
Link for downloading installation file is located on web page: http://www.ote-cr.cz/registration-and-agreements/access-to-cs-ote/konfigurace-pc?set_language=en in the table **A – Access to CS OTE through a web browser** (links for installation packages for IE and for other supported browsers 32-bit, 64-bit OS).

To start installation open the downloaded file:

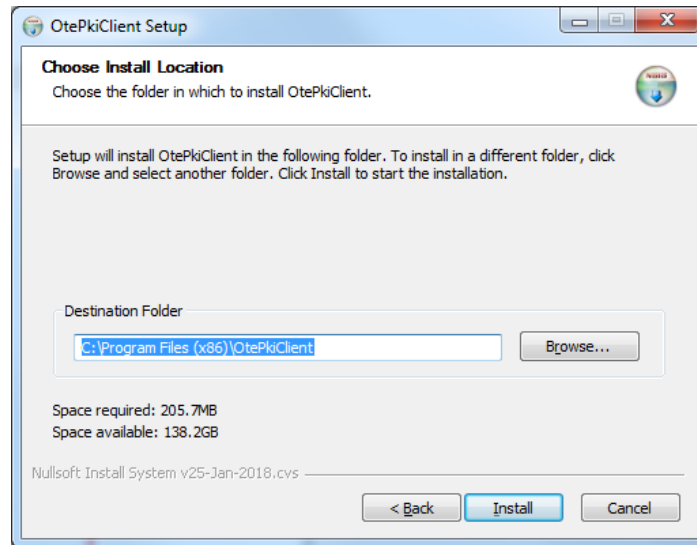
- 1) You will be asked to choose the language of installation



- 2) In next step, according to used browser, decide if to install OtePkiClient just for you or for anyone using this PC

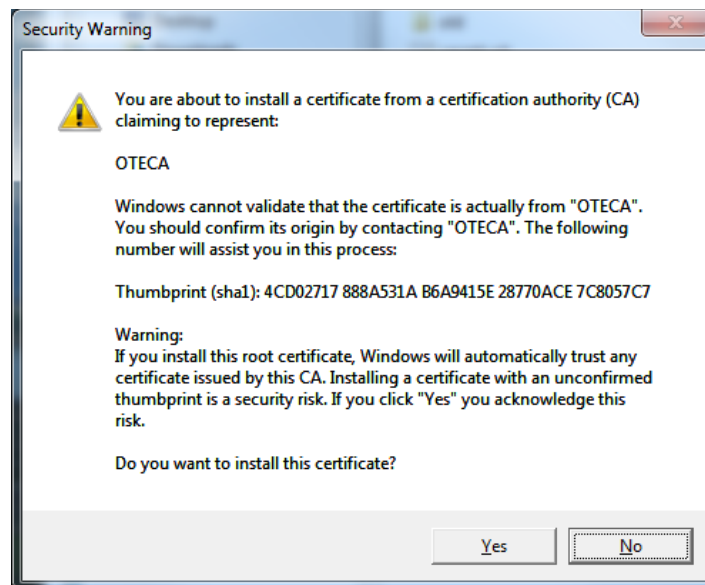


- Choosing “Install for anyone ...” will locate installation into Program Files
 - Choosing “Install just for me” will locate installation into User’s Folder
- 3) Now, it is possible to modify the location manually



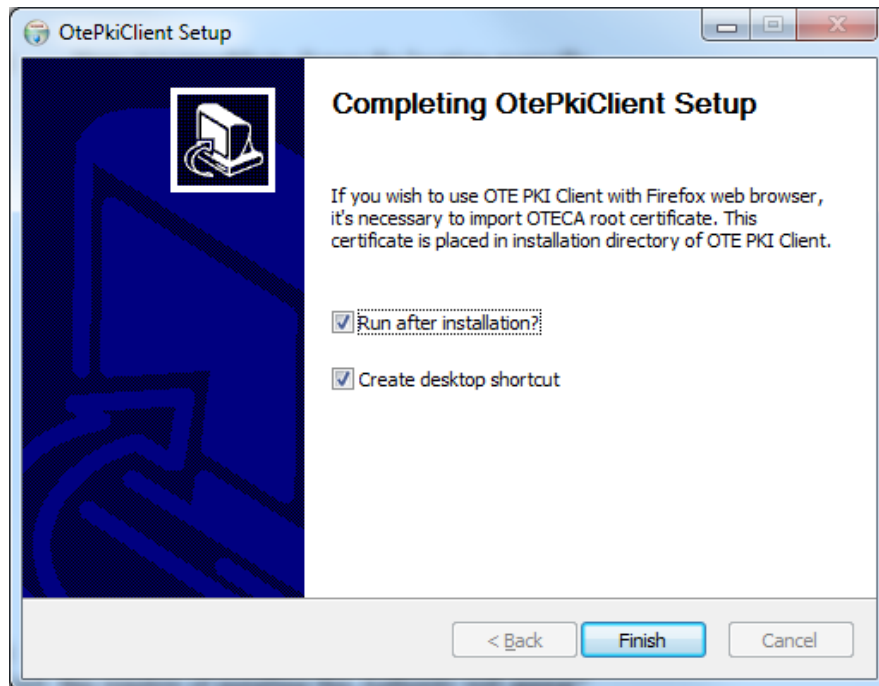
- 4) Is there OTECA Authority installed in Trusted Root Authorities on this PC ?

If this authority is in the system not installed yet, following window with information about installing this Authority will appear:



Pressing YES the installation will continue. Installed Authority is valid for all supported web browsers except Mozilla Firefox. Process of installing for this browser is described in the chapter 2.3.

5) Now we choose if to run OtePkiClient after Installation and if to create the Shortcut on Desktop.



2.2 Post-install configuration

If using another web-browser than Mozilla Firefox, please see the chapter 2.5.

2.2.1 Importing OTECA authority into Mozilla Firefox browser

In the case of using OtePikiClient with this web-browser it is necessary to install OTECA authority into the browser manually.

Save the text shown below into the file OTECA.pem:

```

-----BEGIN CERTIFICATE-----
MIIFpDCCA4ygAwIBAgIKAg9tFwPoO3XI5TANBqkqhkiG9w0BAQsFADA/MQswCQYD
VQQGEwJDWjESMBAGA1UECgwJT1RFLCBhLnMuMQwwCgYDVQQLDANQs0kxDjAMBGNV
BAMMBU9URUNBMB4XDTE4MDMwNTE3NDgwM1oXDTE4MDMwNTE3NDgwM1owPzELMAkG
A1UEBhMCQ1oxEjAQBGNVBAoMCU9URSwgYS5zLjEMMAoGA1UECwwDUETJM04wDAYD
VQQDDAVPVEVDQTCcAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgocGgIBANrqtuv
5zS9byhArdH2sTE+dAGSYT85RT71+ElkoCwpYbOsGsR3/7LzbQT0R7dn8iSDPR5a
hh0B8mdcWLYXOV0croBFs0WpGUiOSiwpKLFr+aXmtVNBfX5qF+GZWRj+G+NfhYgr
zARTN2Ws0MnQGZbXY0GuIWOwYItj9EA15qTE3IN/ereSzwkSwx3Fd2AigxL7V6Yw
pxU+rWe39MFH8prTPw6TI0xvPconZwObaIoHG54P4wRqEeuKnzaW4vZeinGvIXpn
5MamU2tQrMUGCMOEeycASPMEubSK8z6IyJ35ZQ31aeUk3lwrzp0CJZVFSztThn8T
9e1ZiPHxD3LbW5bGT7hSVqe7qe1qwdomYItQrRLJZ17YMBEA8vfgZHwjcja07QfX
ljYdUirnujTDgHqcu6RXVkhPvVbdFNcRe1o34+8TzmDXQOVOTSzjeOdGcB++Rvcp
+pxbbQUFM4ja3BH3Y9hV2GWSptET/FhY028gG2KkFpXAz7HzpnLjm27dvSH4RU3S
AYKm+cd/btgDI2fGzaKtVt50+trB2Wjl+GipsRkw2VmOdBDO++T28NcrOu7HNVBf
xNzpvHchoVOonWLBghxzqVDux+BWEriOIJYSebBbQdn0Vic5xB0+kcGMHmfJ6Dz
7sOh1ZgH3h3rYg7G88JxGVGbxFGZHMTYyamhAgMBAAGjgaEwgZ4wDwYDVR0TAAQH/
BAUwAwEB/zALBGNVHQ8EBAMCAQYwHQYDVR0OBBYEF0pk3trCPeD1g0lUhNgqi73M
7xMVMB8GA1UdIwQYMBAAFOpk3trCPeD1g0lUhNgqi73M7xMVMB4GA1UdEQQXMBWB
E290ZWNhLmN6QGxvZ21jYS5jb20wHgYDVR0SBBcwFYETb3RlY2EuY3pAbG9naWNh
LmNvbTANBqkqhkiG9w0BAQsFAAOCAGeAXL8eTcjeG0Yb341YzErb+KGM6S2gWAqk
eBbrVtVJ6uq4lUYVuQ2radrN26ZMSedTyeCzmuq2bK3wLchBcQkeC/FY4gvDUVE5
nz3I0n4Ze6Q14r6ZgckLDWEym0+OvHKaaLuheOkRTYx2+EVoTIWI/44zqZ15moQB
DKSdTENQNRSTxp1pRElTpCYxd28Ssv0S0fQpeX1vOP1fQZ363AUVr8FnKnMb3CHY
5ua45Chal3MzoiEIFz3AIo6o5AwMqs+vTTTzAM7Y5qEfurEOPWw08Pgv6IoxKIFv
5P7BEbwlOha8kJpncAnoLmhucZoPH774a4XHdVdT1678CWd0f+JCDG0FFVtaXkKV
aUBHuw5vojEiPXZ7VGysiApZ0EM1FJ5IuZY03kjJ60q4Rj3I+436cdOk7P1S1BiQ
R0KrZmUP1ChCwW42LVaIzh0//WlagXJ/2I12bKI1qzTkixSYkOV3t+OewfLmBBM/
nmLoDdKfrmkWaEkURL81911YhDgh2fwOn5cLwedq0XNzVGqnJW/knSjesf11t1Lv
79uUfXv6Yx3fXmG4Q6Pva++G4MXoccjEwndr83XrG7rTZlnF1qUrQGYjZduLiT8M
q7wCPGLXADYuDhV4ewN/SLlvfSR2oohcpcbJ1f+a4eSXDbeg0jcN8YbT7+geY0tKc
iXTuTVuPZSI=
-----END CERTIFICATE-----

```

2016 OTE, a.s.

Date of revision:
27.11.2018

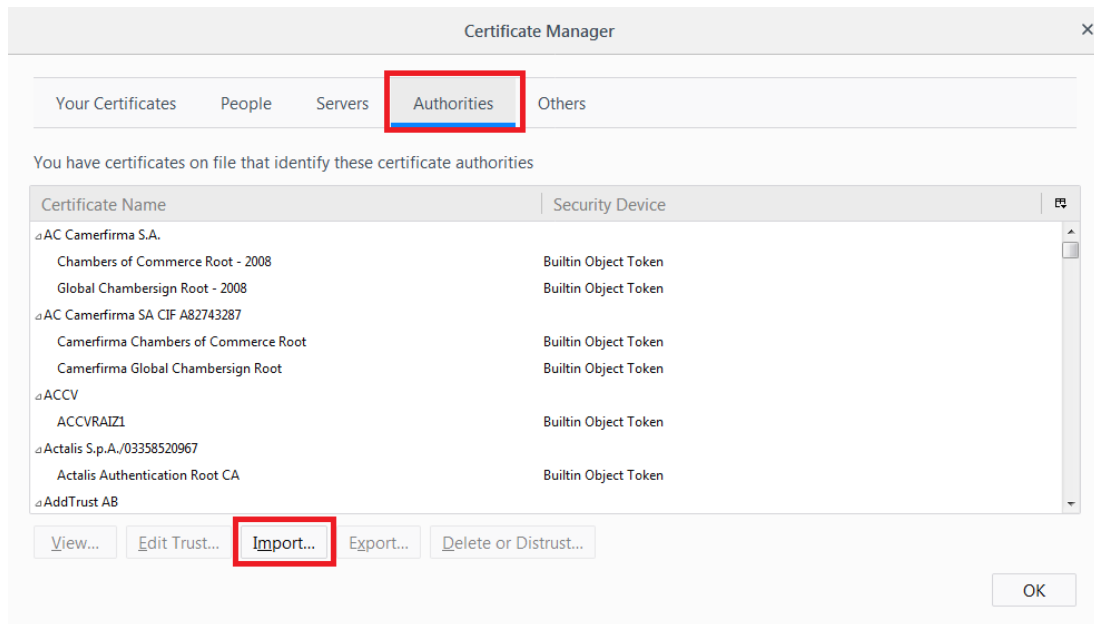
Document name:
Client station configuration

Document version:
EAF2315

Actual installation in Mozilla Firefox browser:

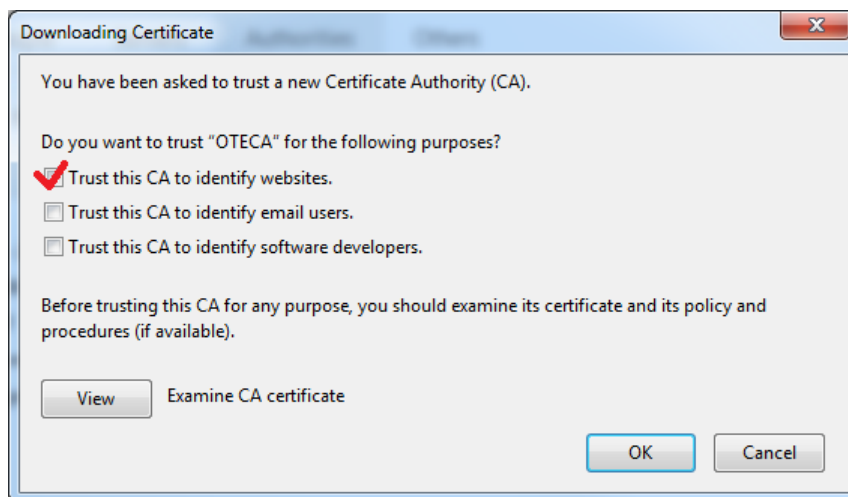
Menu -> Options -> Privacy & Security -> Certificates – View certificates...

Choosing the tab *Authorities* and pressing **Import**



In displayed window “Open file” select the file OTECA.pem.

Next step is to choose what type of identification is this Authority valid for:

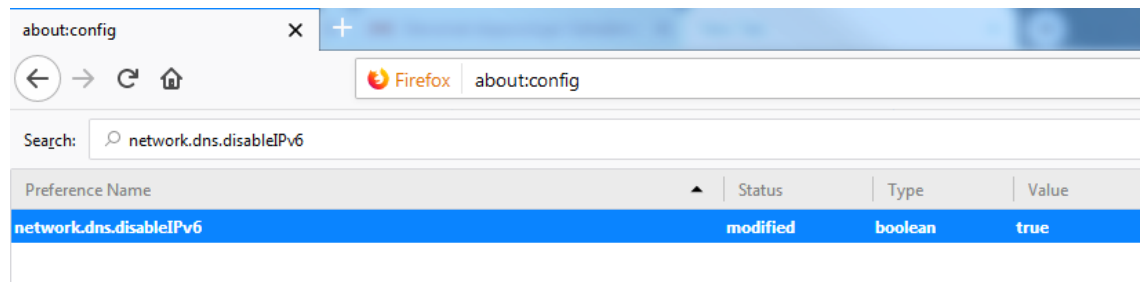


- Marking the first checkbox – **Trust this CA to identify websites**, and pressing OK will finish the import.

2.2.2 Disabling IPV6 DNS in Mozilla Firefox browser

In some specific configuration e.g. company network using WPAD, PKI component could not work more. Even after the above stated import of authority it is not possible to detect PKI component. Then, you need to change the browser's system settings by disabling searches of IPV6 in DNS.

The procedure is only recommended for experienced users because you need to change the settings in the Firefox system editor:

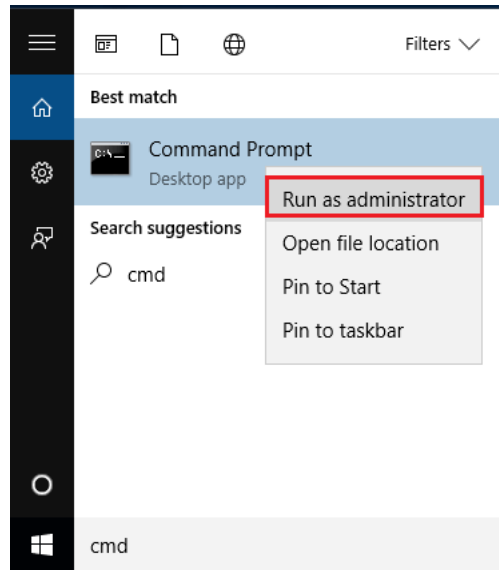


- 1) In address bar of the browser, type *about: config* and press *Enter*.
- 2) Accept an entry warning only for experienced users
- 3) Find "*network.dns.disableIPv6*" and double-click this item to change the value from *false* to *true*.
- 4) The bookmark can be closed, the settings are saved.

2.2.3 Configuring web browser Microsoft Edge

In the case of problems with detection of installed OTE PKi Klient in the browser Microsoft Edge (*forbidden communication web applications and local programs*), run the Command line as administrator:

- Windows MENU – *Search programs and file* type in CMD
- Consequently pressing right button of the mouse on cmd.exe and choosing *Run as administrator* will open window with command line. Type in following text:



- Choose Run as administrator, type admin Login and Password
- into new CMD window type this structure:

```
CheckNetIsolation LoopbackExempt -a -n="Microsoft.MicrosoftEdge_8wekyb3d8bbwe"
```

- pressing enter will execute modifications and the browser is now ready to use

2.2.4 Configuration of CS OTE portal

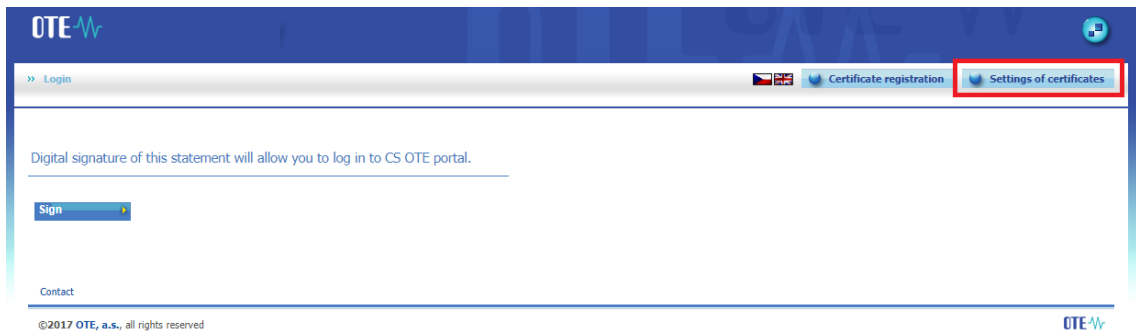
Communication CS OTE portal with OTE PKI Client is done through Local Storage. If it is forbidden to save *Browsing history*, it is necessary to perform the steps below every time launching the browser.

If the case the Local Storage was initialized for usage with certificates PKCS#12 (software cer.) , it is necessary to deconfigure it first.

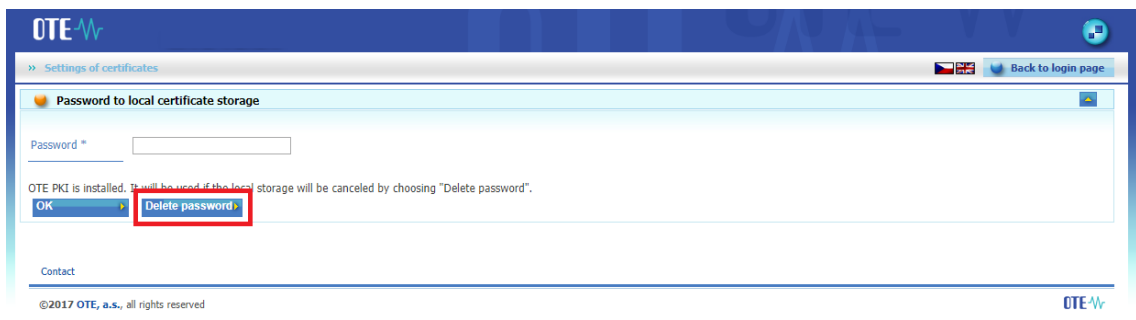
All the settings stated below must be performed for every web-browser and/or every user profile in operating system.

2.2.5 Deleting already initialized Local Storage for SW certificates

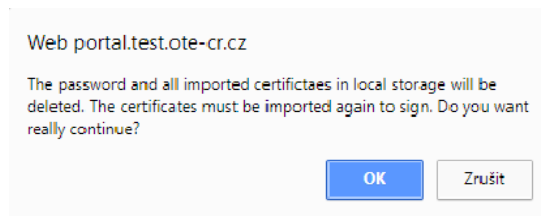
- login page to CS OTE - press the button *Settings of certificates*



- page Settings of certificates – press the button *Delete password*

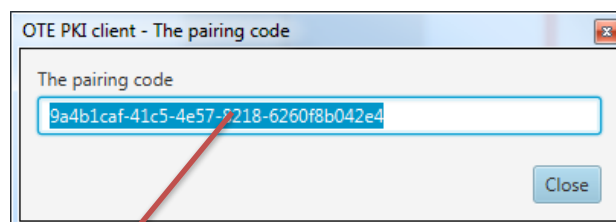


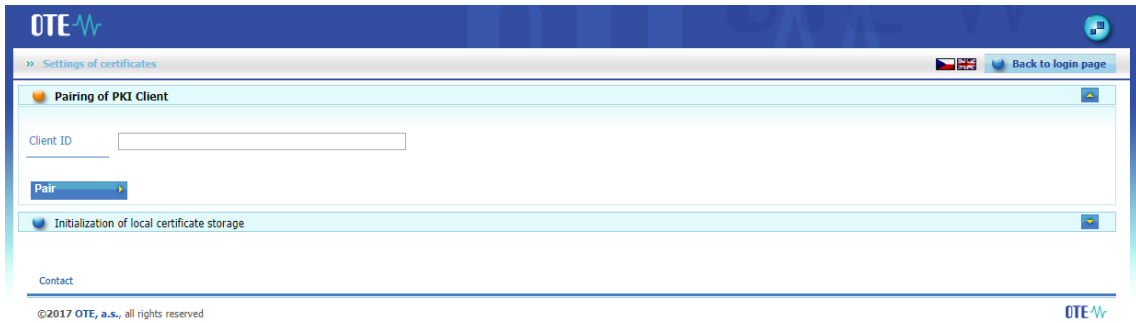
- in continuity to finish installation confirm the dialog box informing about deleting the Local Storage



2.2.6 Pairing web application and the component

After entering *Settings of certificates*, if the Local Storage is not used, automatically appears **Pairing dialog** (OTE PKI Client). In the web browser is shown section **Pairing PKi Client**, where the pairing code should be copied to.





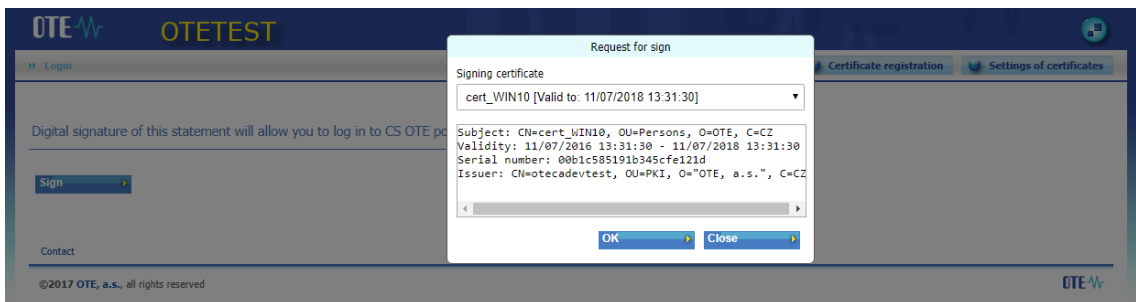
Inserting pairing code and pressing **Pair** will open web page with overview of all certificates in the Storage of operation system.

Activation process of OTE PKi Client is done.

In the case of not viewing **Pairing dialog** automatically, it is possible to open it manually: in Taskbar do right click (of the mouse) on the icon OTE PKi Client and choose **Open pairing dialog**.



Pressing **Back to login page** and **Sign** enable to access CS OTE Portal.



Local Storage is not used and OTE PKi Client is already installed. Before you pair web-browser with OTE PKi Client pressing **Sign** will evoke viewing window:

Web portal.test.ote-cr.cz

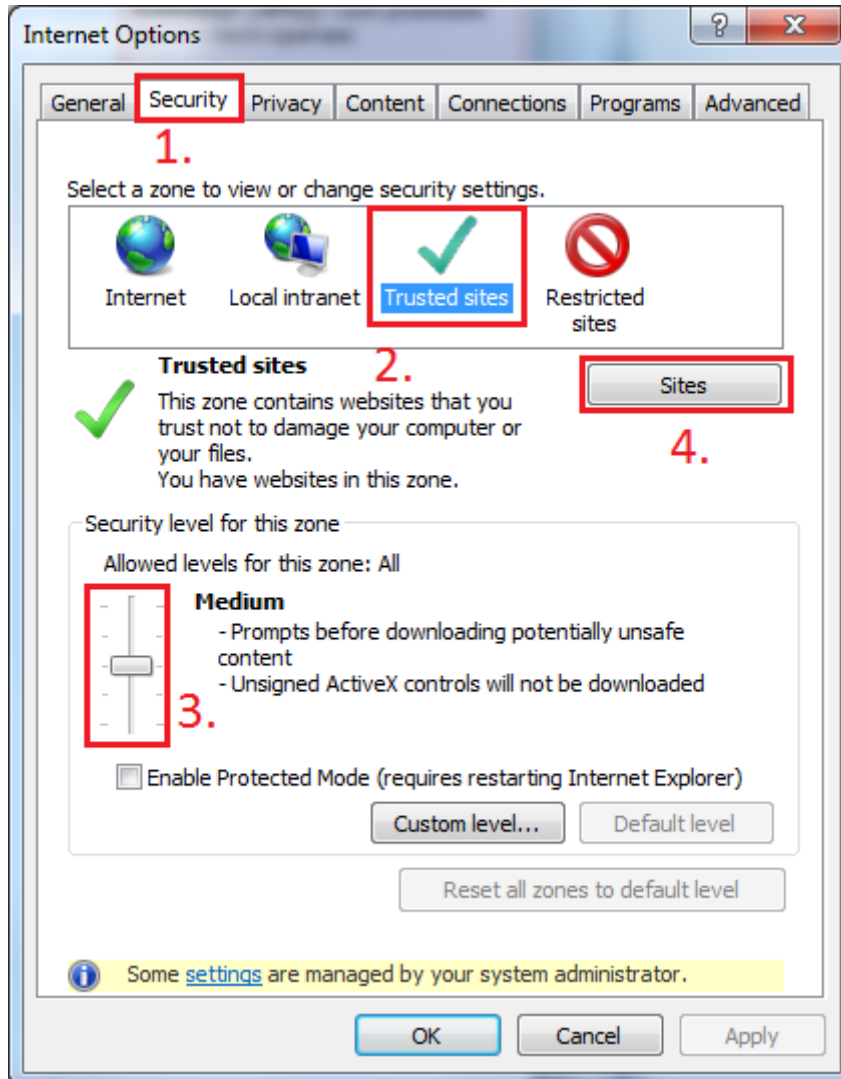
Before using PKI Client service is necessary to pair the service in Certificate settings.

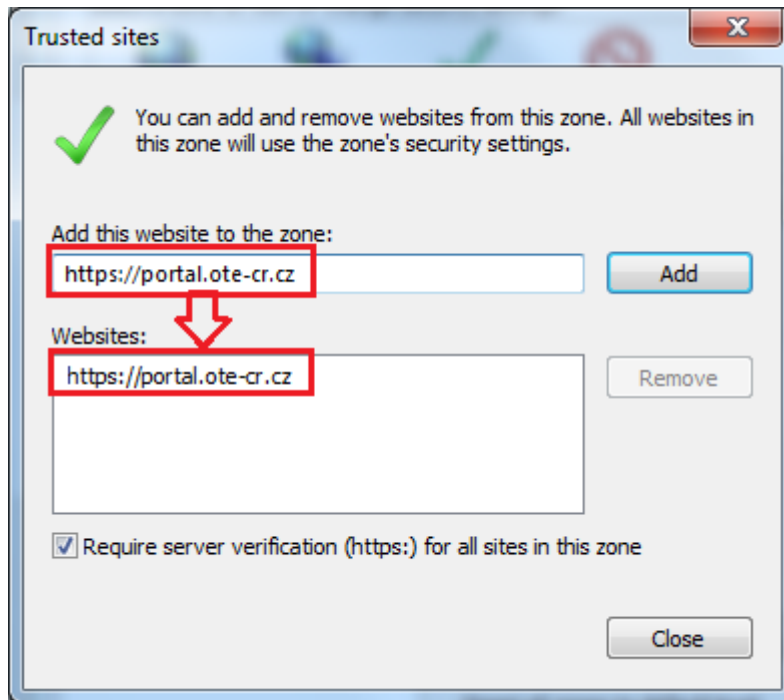
OK

3 Internet Explorer browser settings

3.1.1 Set up of Trusted sites

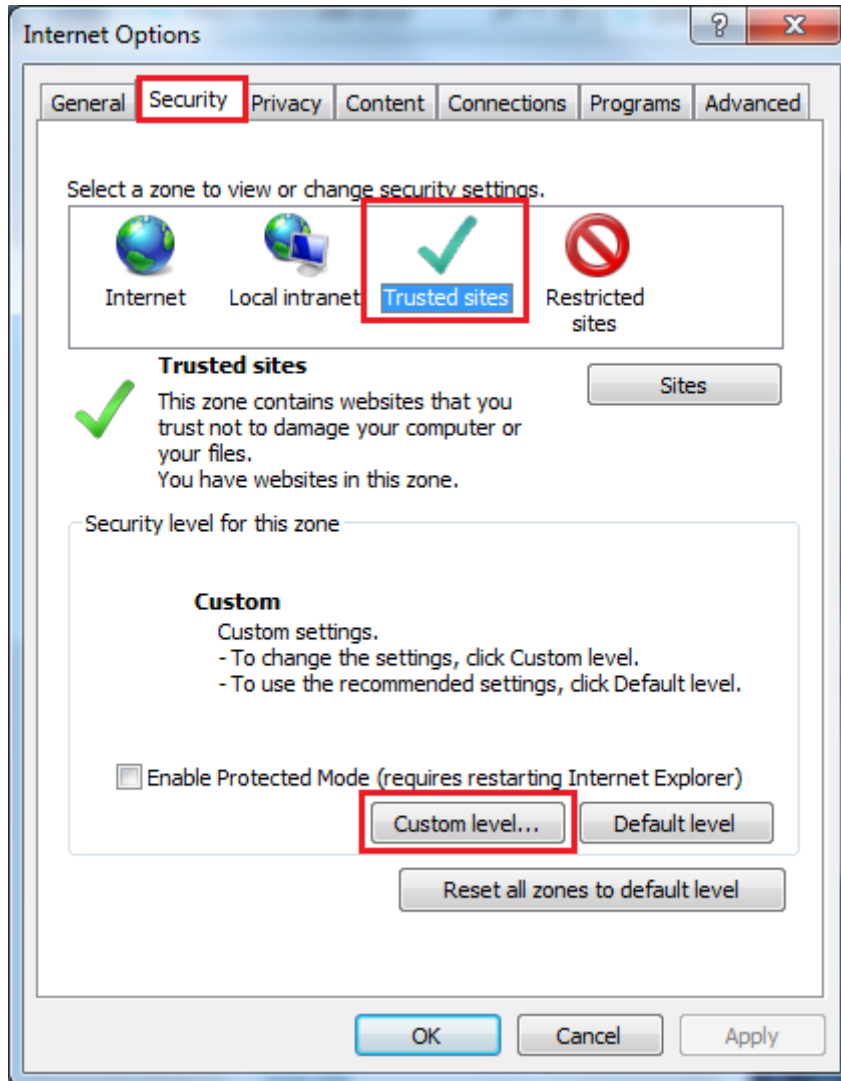
Internet browser settings should be standard but some functions may require adding the site <https://portal.ote-cr.cz/otemarket> into „Trusted sites“ (Tools/Options; see pictures below).

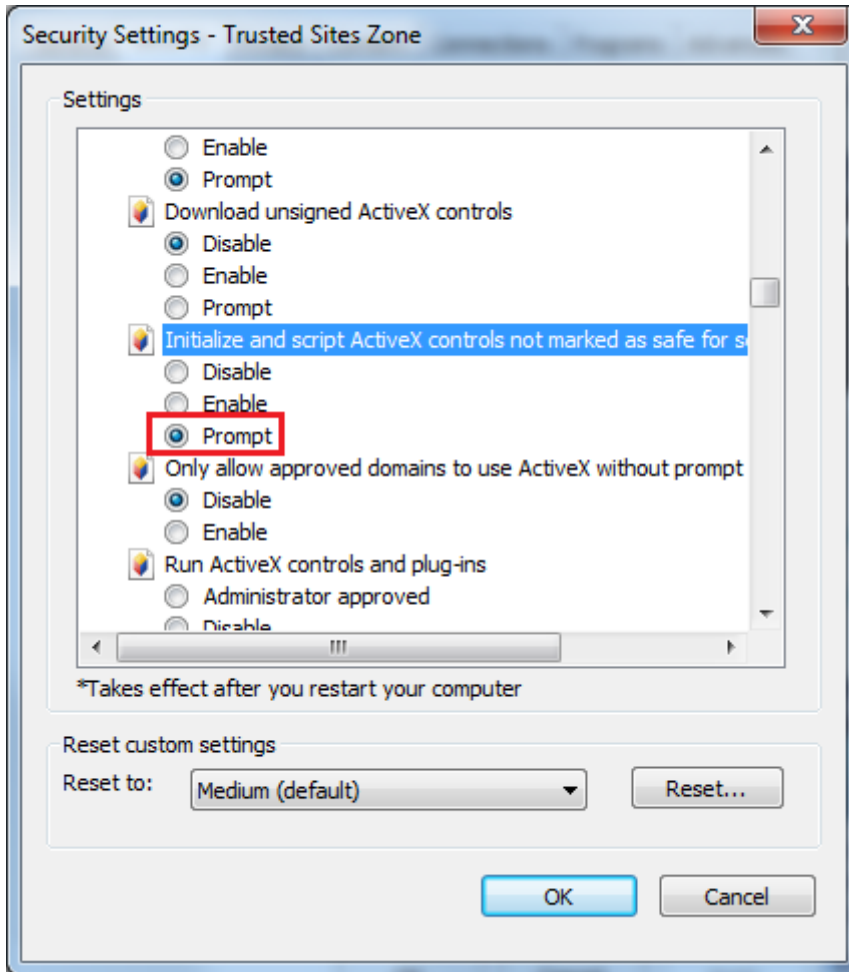




3.1.2 Check ActiveX component settings

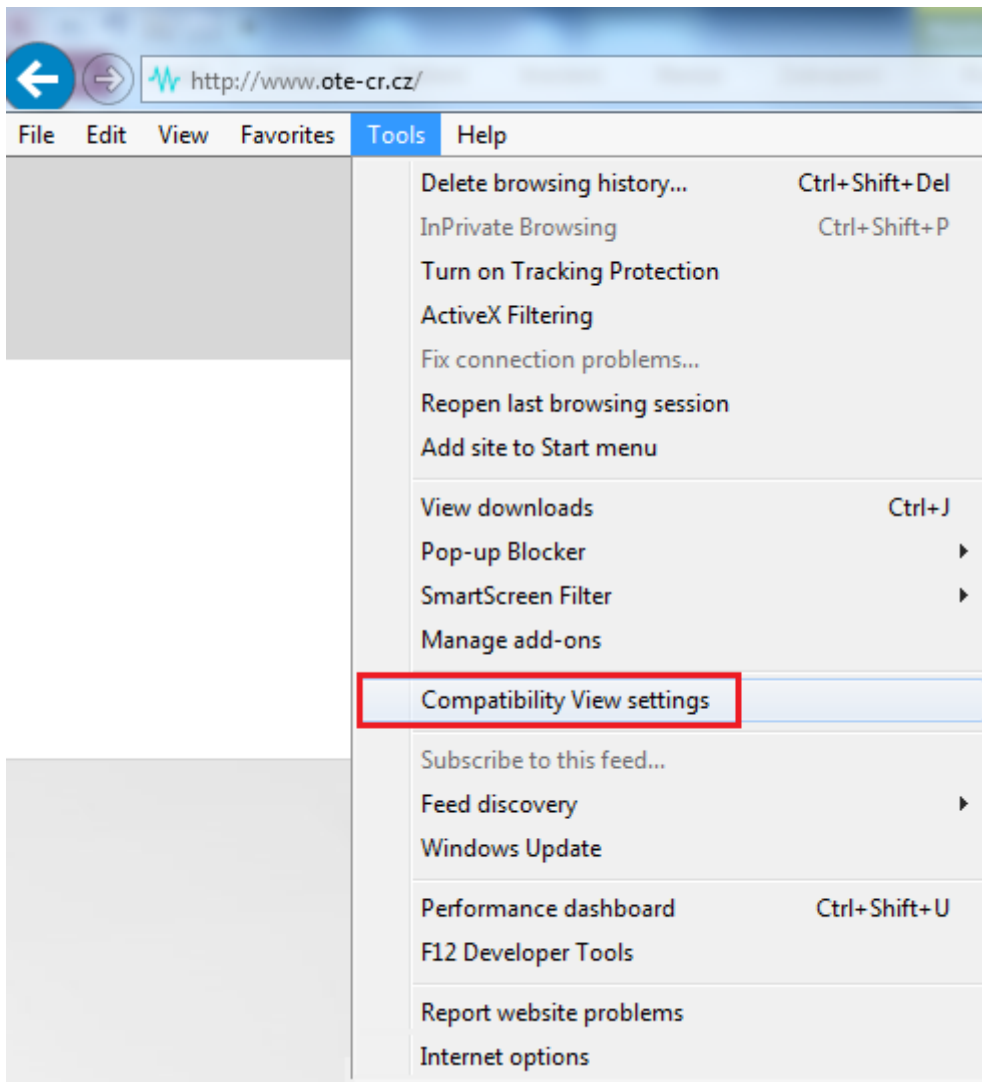
Download of ActiveX components on your workstation has to be set up for the properly CS OTE functionality. Please use the following instructions:



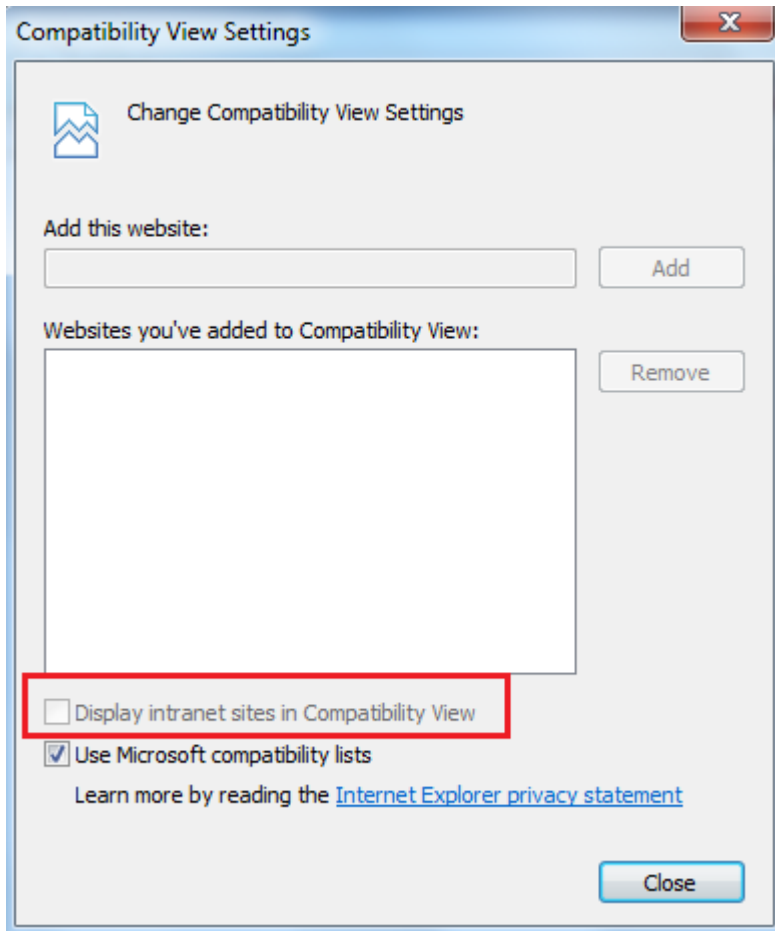


3.1.3 Compatibility view setting in Internet Explorer (IE)

Browser IEv11 should be configured the following recommendation. Go to browser menu Tools – Compatibility View settings



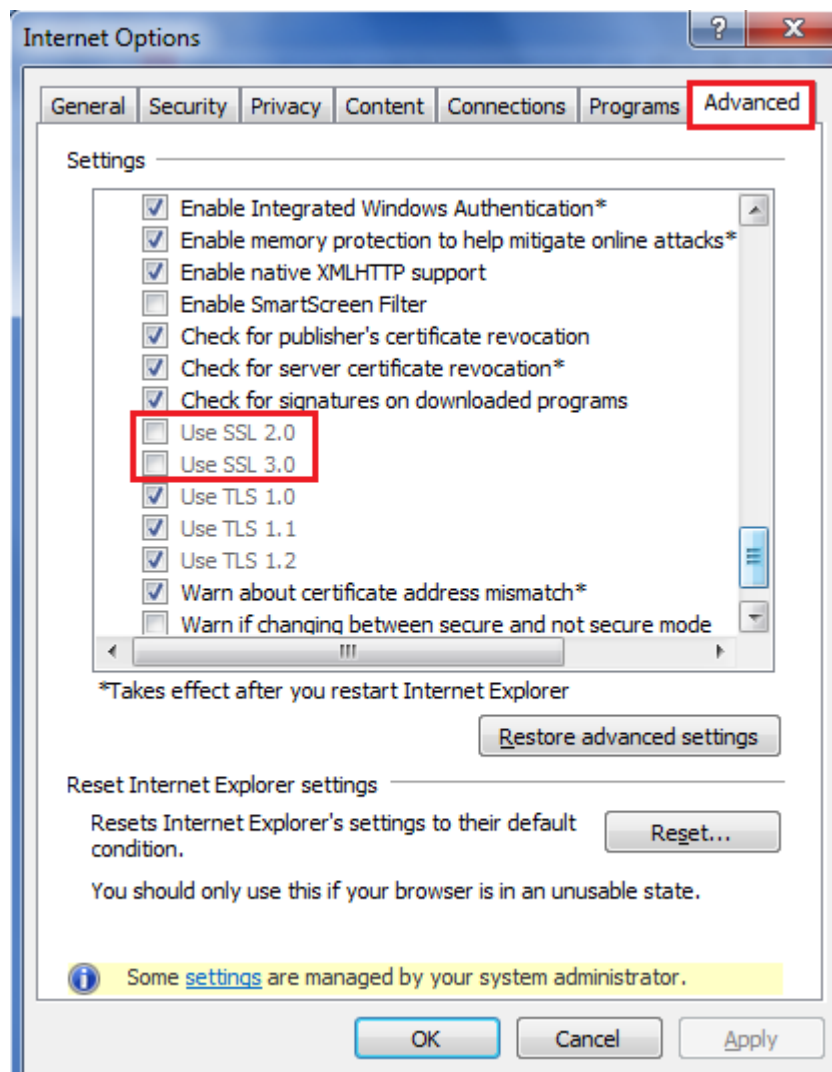
Remove implicit checkbox „Display intranet sites in Compatibility view“, as presented below.



Close the dialog.

3.1.4 Secure communication setting configuration

Check the secure setting configuration, menu Internet Option – Advanced. See screen copy below.

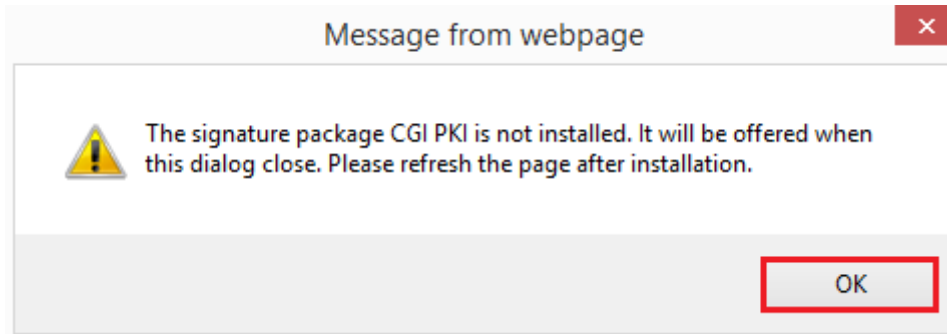


Let the TLS setting and remove checkboxes from SSL and confirm change by press OK button.

3.1.5 CGI PKI package installation for Internet Explore

CGI PKI package has to be installed on a local workstation. How to install this is described in chapters below. User has to have admin rights to install these new components in system registry. **Admin rights are mandatory!**

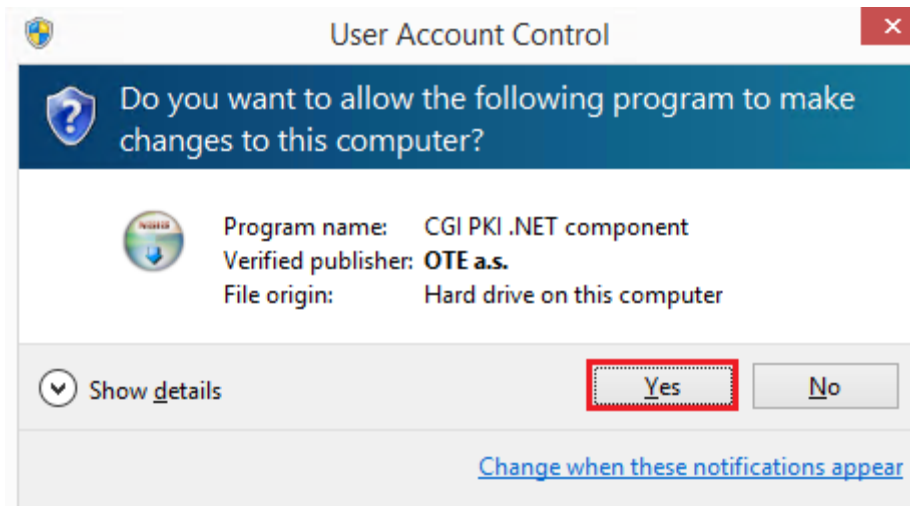
When user logins into CS OTE portal (<https://portal.ote-cr.cz/otemarket>), new dialog for download CGI PKI package ActiveX appears.



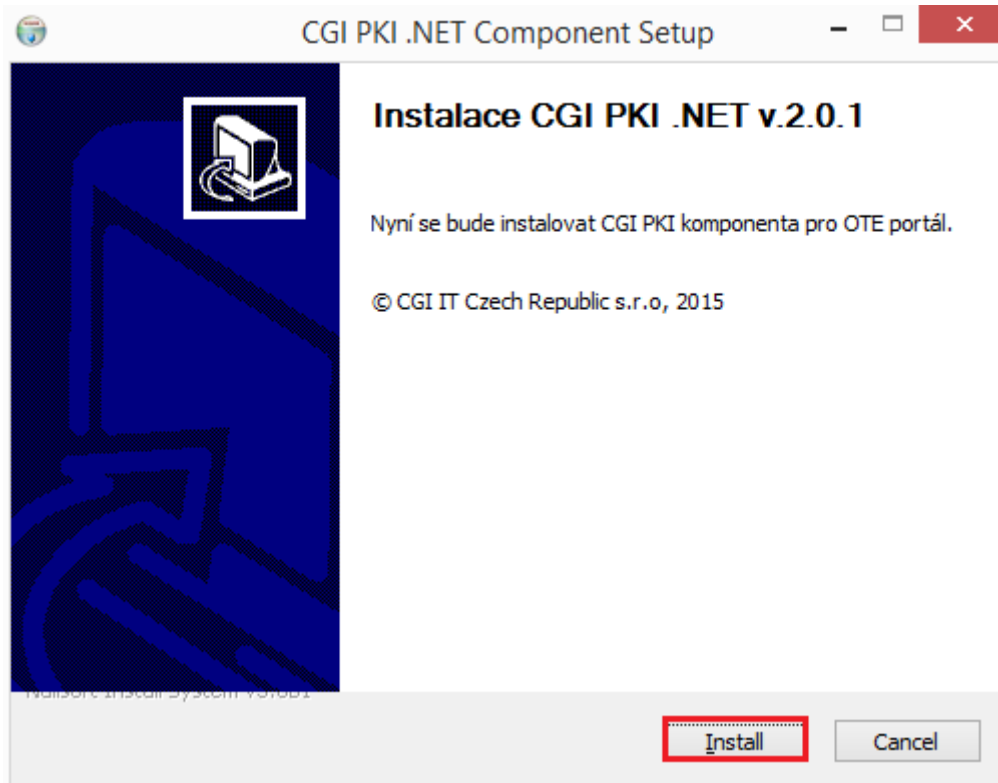
Press „OK“ button and then press „Run“ button



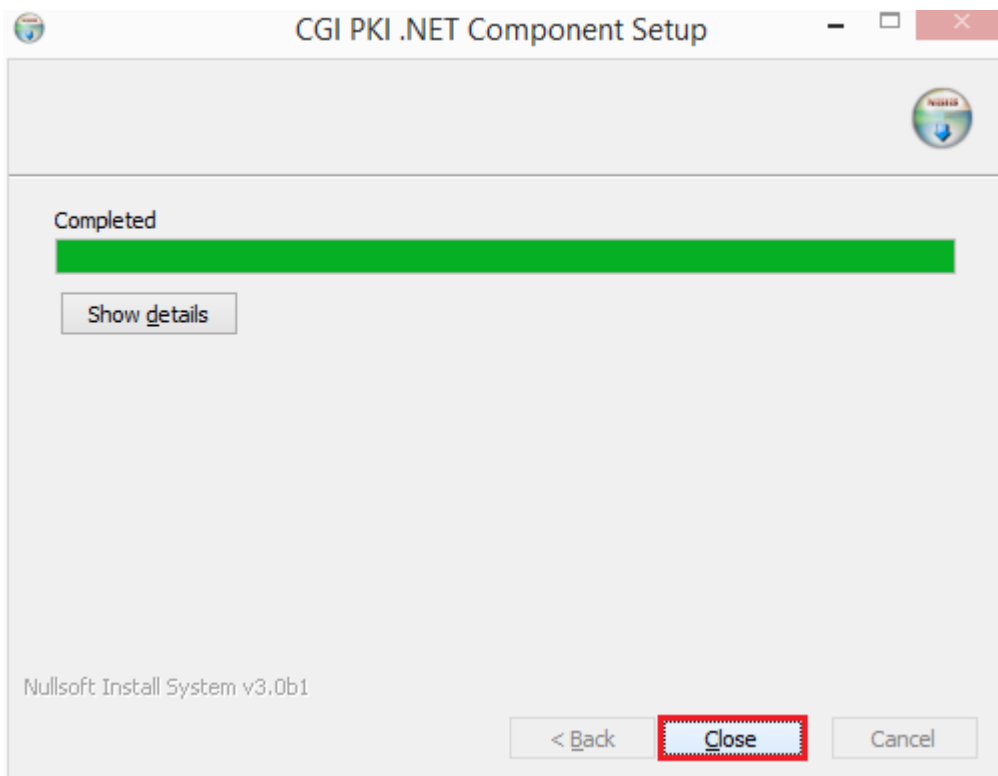
Press „Yes“ button



Press „Install“ button



Press „Close“ button



After these steps CGI PKI component is successfully installed.

2016 OTE, a.s.

Date of revision:
27.11.2018

Document name:
Client station configuration

Document version:
EAF2315

3.1.6 Manual installation of CGI PKI sign package for Internet Explorer

In case of any technical problems with, CGI PKI sign package can be downloaded directly from site below and manually installed.

- Download installation package from link below
<https://www.ote-cr.cz/regitrace-a-smlouvy/pristup-do-cs-ote/files-konfigurace-pc/OtePortalPki.exe>
- Close all Internet Explorer windows
- Run the installation wizard
- Follow the installation wizard
- The sign process should work now.

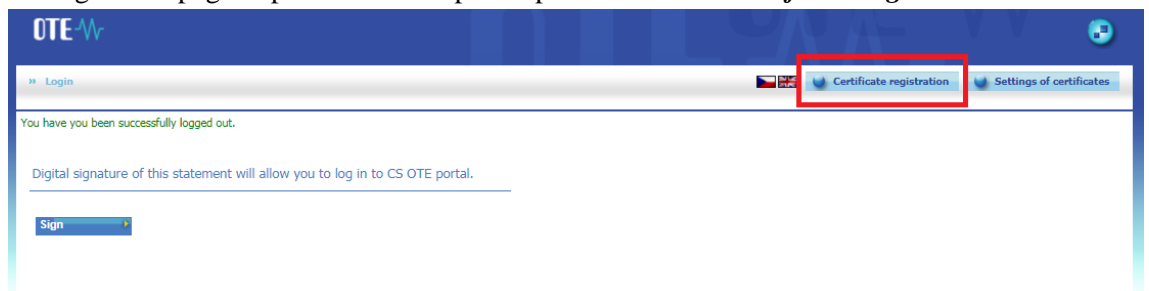
4 Re-registering the Certificate after validity expires

Accessing CS OTE portal after validity end-date of Certificate with company ID

- 1) New certificate with the same company ID, as expired one, upload into *Local Machine Store*, respectively into *) *Certificate Manager* of used web-browser.

*) web. browser: *MENU – Settings – Certificates – Manage certificates – Personal cert. – upload new certificate*

- 2) On login web-page to portal CS OTE please press the button *Certificate registration*:



- pressing **Sign** on the next page will continue in re-registration process
- dialog box „**Request for sign**“ is shown. All sign certificates registered in Local Machine Store are visible there. Choosing the new one and pressing **OK** will result in new web page with information about User and Certificate.
- If all viewed information is correct, we can finish re-registration process by pressing **Register**

Viewing notice on the next page - ***The certificate was successfully registered.*** informs about ending the process correctly.

Now it is possible to use this certificate as usual.

5 Instruction for the first access to the production environment of OTE-COM application

Access to the OTE-COM production environment is possible by following two ways:

1. Application OTE- COM (Fat client)
2. Direct access to AMQP server from market participant's server (Automatic communication)

5.1 Application OTE-COM Launcher Manager

- First, it is necessary to download and install the production version of OTE-COM Launcher Manager (LM) for Electricity (A) or for Gas (B) which allows run of the production version of OTE-COM application.
 - A) OTE-COM Launcher Manager (LM) for Electricity:
 - For 32 bit version: <http://www.ote-cr.cz/LauncherManager-PROD-windows-i586.exe>
 - For 64 bit version: <http://www.ote-cr.cz/LauncherManager-PROD-windows-x64.exe>
 - B) OTE-COM Launcher Manager (LM) for Gas:
 - For 32 bit version: <http://www.ote-cr.cz/OTE-COM-GAS-PROD-windows-i586.exe>
 - For 64 bit version: <http://www.ote-cr.cz/OTE-COM-GAS-PROD-windows-x64.exe>
- Manual for installation of OTE Launcher Manager you can download [here](#).
- Communication of the application goes through http/https protocol which in normal cases does not cause any trouble. However, complications may occur if market participants use the proxy server. In this case it is necessary in the OTE-COM Launcher Manager settings (clicking the button O) set the HTTP proxy and allow access to <http://www.ote-cr.cz> and <https://portal.ote-cr.cz>, respectively contact your IT department and ask them about settings.
- Please note that it may be needed to allow direct access to URL amqp.ote-cr.cz (IP 91.209.101.43), port 5671 in the infrastructure of the market participant.
- Each participant, who is accessing CS OTE Portal with the personal certificate, has the access to applications OTE-COM (through LM) with same certificate. In terms of personal certificates, there is no need to change anything on the market participants' side.
- Information about installation of the root certificates, that has to be installed to access the OTE- COM application, can be found in the manual of OTE Launcher Manager.

2016 OTE, a.s.

Date of revision:
27.11.2018

Document name:
Client station configuration

Document version:
EAF2315

5.2 Access to AMQP server from market participant's server (Automatic communication)

- Communication for OTE-COM LM:
 - Electricity (A) goes through URL amqp.ote-cr.cz (91.209.101.43), port 5671, virtualhost = market.
 - GAS (B) goes through URL amqp.ote-cr.cz (91.209.101.43), port 5671, virtualhost = marketGAS
- Supported TLS interface: version 1.2.
- For this type of communication is necessary for market participants to implement appropriate interface according the [specification](#). Templates for OTE-COM messages are available [here](#). In this case it is not used functionality of the proxy.
- For this communication is used AMQP protocol, which does not support HTTP / SOCKS proxy configuration on the market participant side. In this case it is necessary to ask IT department.
- Each participant, who is accessing CS OTE Portal with the personal certificate, has the access to AMQP server (through Automatic communication) with same certificate. In terms of personal certificates, there is no need to change anything on the market participants' side.
- Information about installation of the root certificates, that has to be installed to access the OTE- COM application, can be found in the manual of OTE Launcher Manager.