EUREX

# Eurex Clearing

# Clearing Web GUI Access Guide

## Access to Clearing Web GUI Systems

C7 Clearing GUI

EurexOTC Clear GUI

Prisma Margin Calculator GUI

Securities Clearing GUI

| | |
|---|---|
| Version | 3.5 |
| Date | 9 February 2021 |

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# 1. Introduction

This document describes the required technical measures to be able to login and use the Eurex Clearing GUIs.

- C7 Clearing GUI
- EurexOTC Clear GUI
- Prisma Margin Calculator GUI
- Securities Clearing GUI

## 1.1 Intended Audience

For a successful setup the Member's IT department should take note of this document.

## 1.2 Connectivity

Basically, access to the Eurex Clearing GUIs is available via

- Internet
- GUI channel on leased lines

To access the C7 Clearing GUI it is necessary to request access to C7 beforehand.

All details (Technical access / Interfaces to Eurex Clearing / Clearing system usage fees) can be found on the Eurex Clearing webpage: http://www.eurexclearing.com > Tech > Connectivity alternatives

## 1.3 Enhanced security features

For the Clearing Web GUI a two factor authentication is implemented:

- 1st factor: Certificate authentication - used to secure the connection between the Member and Eurex Clearing on a Business Unit level (**MemberID level**). The certificates are also used to distinguish between the simulation and production environments.
- 2nd factor: Username and password authentication - used to login to the Eurex Clearing Web GUI Services (**UserID level**).

For the C7 Service, a third factor is implemented as well, which is based on network addresses.

### 1.3.1 Network security

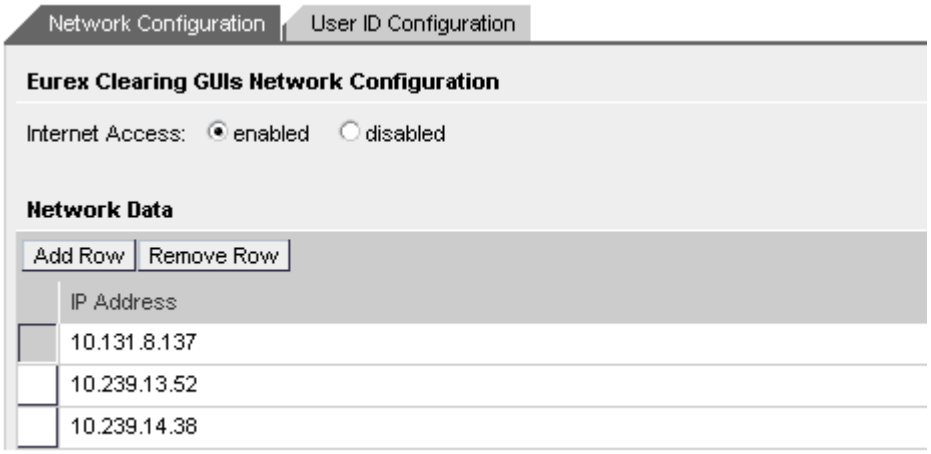
The feature is currently completely configurable and activated only for the C7 Clearing GUI.

For the connection via Internet the Member can choose one of the following options:

- Allow Internet access without restrictions (default)
- Completely disable Internet access
- Allow Internet access for certain IP addresses given by the Member

**Internet access**: Per default any user of the given Member is permitted to access the application from any IP address. If the Member wants to restrict the default access, a list of IP addresses can be entered in the Member Section. Then it will only be possible to access the

application from these explicitly stated IP addresses. Internet access for the given Member can be completely blocked by setting the corresponding radio-button.




**Leased Line access:** Eurex Clearing allows access from the Member leased line networks and from any associated Service Provider respectively.

For the connection via leased line the GUI is checking the incoming IP address against the known network information for the corresponding Member.

In case a Member connects through a Service Provider, the IP address is also checked against the known networks of the Service Provider.

This implies that any Service Provider relationship needs to be maintained correctly in the Member Section if the Member is accessing any of the Eurex Clearing GUIs via the network of a Service Provider.

The relationships can be registered via "Technical Connection / Requests & Configuration / New Request / Provider / New Provider / GUI Channel".

## 1.4 Browser requirements

In order to connect successfully to the Eurex Clearing GUIs and to ensure a smooth service it is recommended to use one of the following web browsers to connect to the GUI:

- Firefox Latest ESR (extended support release). Usage of Firefox is strongly recommended.
- MS Internet Explorer 11 or higher
- Google Chrome

The required browser settings are:

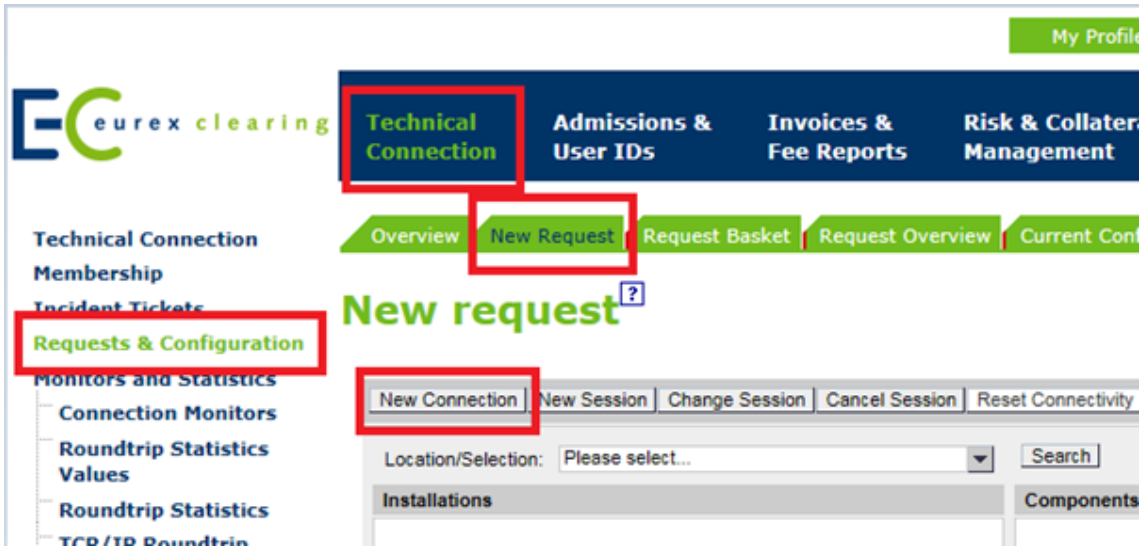
- Enable session cookie handling
- Allow JavaScript execution
- Support security protocol TLS 1.2
- IT-Security Patches are highly recommended.

**Note**: See “Appendix D – Browser setup details” for further information about browser settings.

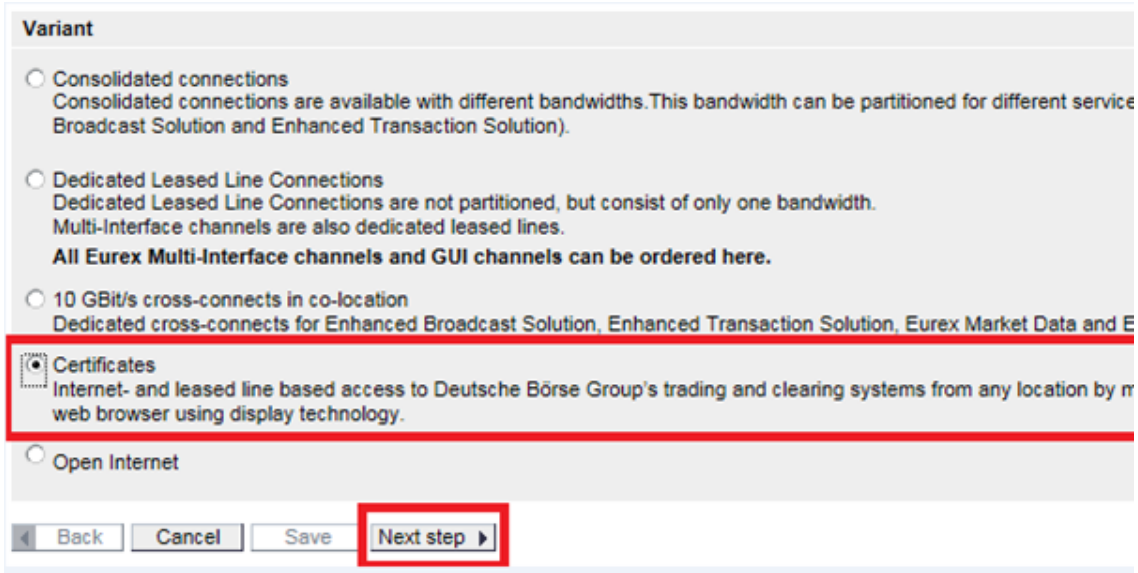
**Note:** The network proxy settings must be configured according to the local network rules given at the Member-side.

## 2. Ordering Certificates

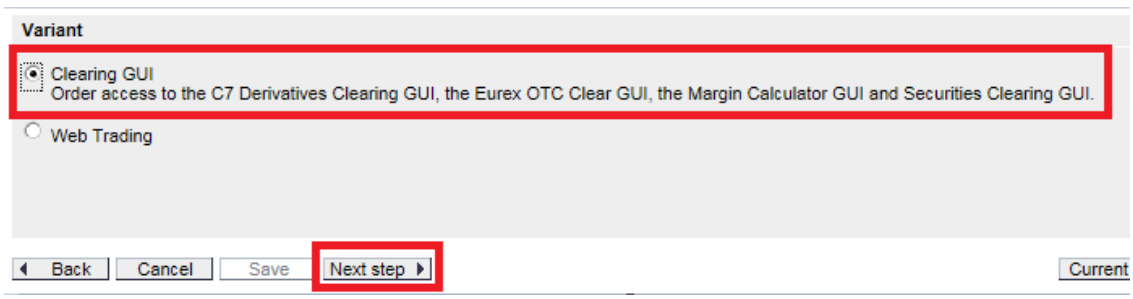
On the Member Section, go to Technical Connection / Requests & Configuration / New Request / New Connection:



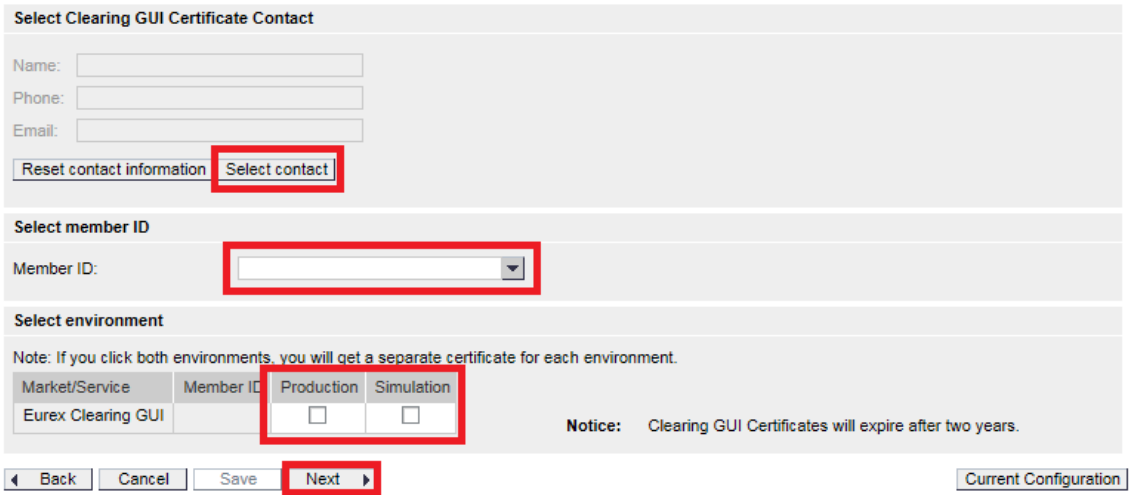

Choose option “Certificates” and click on “Next Step”:




Choose option “Clearing GUI” and click on “Next Step”:



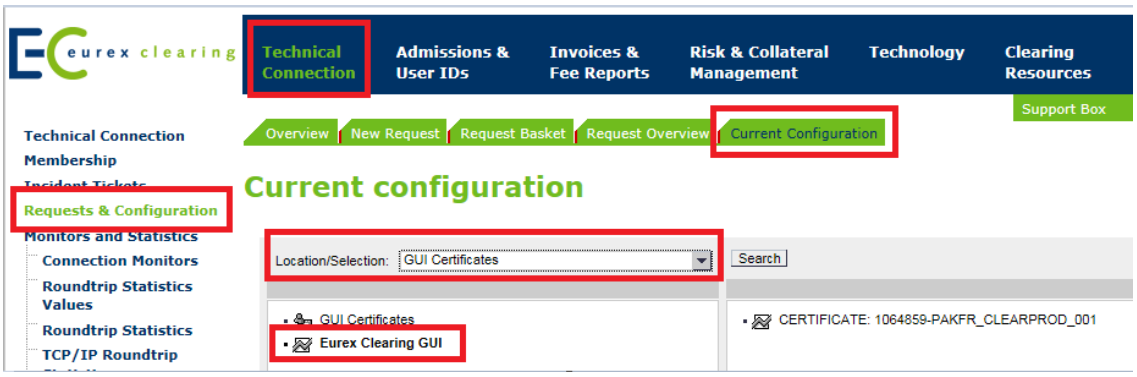
Select the contact, MemberID, and environment and then click on “Next”:




Check the overview and click on “Add to request basket”. **Please note that this creates only a “draft request”. Your request will still need to be approved by someone with approval rights. All Central Coordinators automatically have this right. It can also be assigned to other Member Section users.**

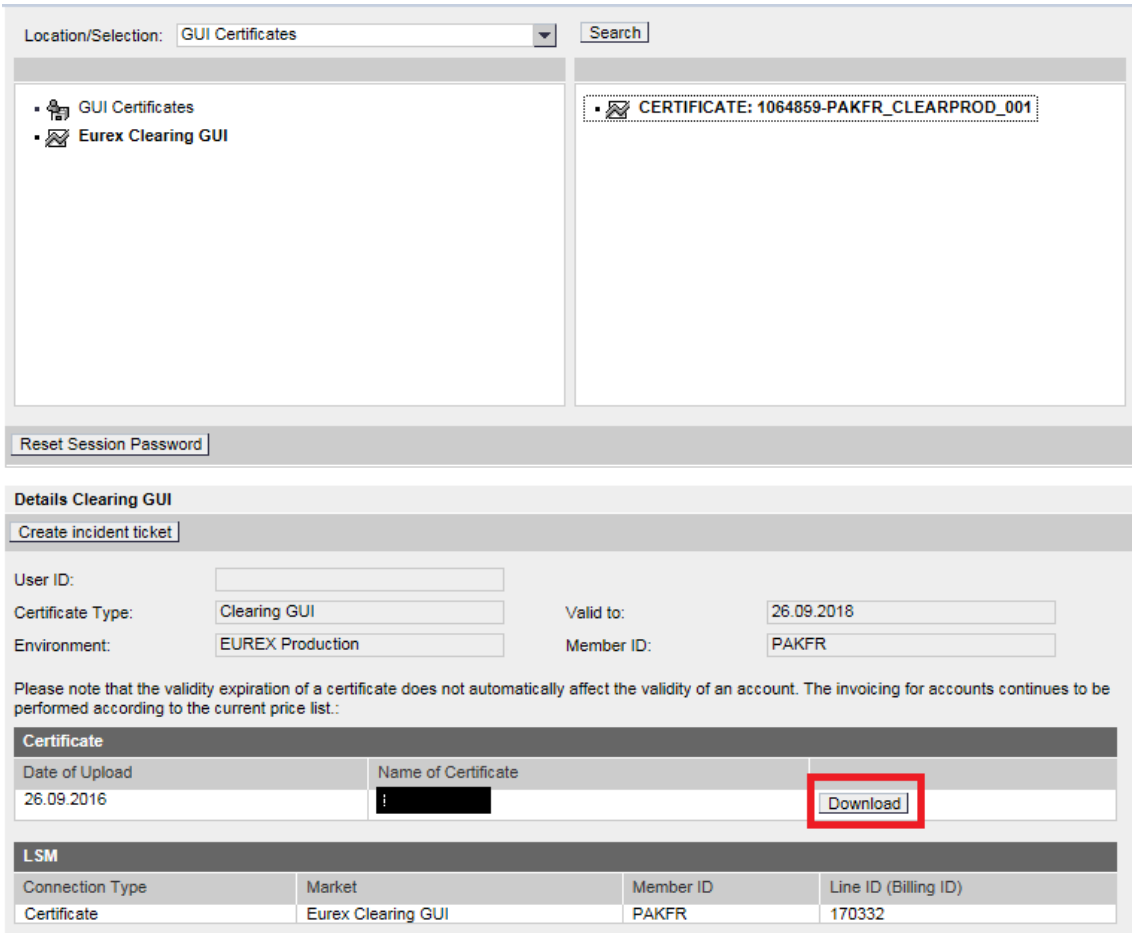
Once the certificate has been created by Eurex Clearing, an e-mail notification will be sent. The e-mail will include the password for the certificate, which is needed when you upload the certificate into your user’s browser.

On the Member Section, go to Technical Connection / Requests & Configuration / Current Configuration and select “GUI Certificates” from the drop down menu in the Location/Selection area, to view the Eurex Clearing GUI certificate(s):




In order to find a particular certificate, please click on the actual certificate name in the right-side window. You will then find the “Download” button for the certificate, just like in the screenshot below:

## Ordering Certificates




Download and save the certificate at a secure location.

Upload the certificate into the browser of the GUI user. For example, if you are using Internet Explorer, you would go to Settings / Internet options / Content / Certificates / Import. Please note that you will be prompted to enter the password that you have received in the before-mentioned e-mail.

Once you have uploaded the certificate into the browser, you can log into the respective GUI.

# 3. Appendix A – URL overview

| Service | Internet | Leased Line |
|---|---|---|
| C7 Clearing GUI Simulation | https://simulation.eurexclearing.com:9443/C7_GUI/ | https://simulation.vpn.eurexclearing.com:9443/C7_GUI/ |
| C7 Clearing GUI Production | https://production.eurexclearing.com:8443/C7_GUI/ | https://production.vpn.eurexclearing.com:8443/C7_GUI/ |
| EurexOTC Clear GUI Simulation | https://simulation.eurexclearing.com:9443/OTC_GUI/ | https://simulation.vpn.eurexclearing.com:9443/OTC_GUI/ |
| EurexOTC Clear GUI Production | https://production.eurexclearing.com:8443/OTC_GUI/ | https://production.vpn.eurexclearing.com:8443/OTC_GUI/ |
| Prisma Margin Calculator GUI Simulation | https://simulation.eurexclearing.com:9443/Margin_Calculator/ | https://simulation.vpn.eurexclearing.com:9443/Margin_Calculator/ |
| Prisma Margin Calculator GUI Production | https://production.eurexclearing.com:8443/Margin_Calculator/ | https://production.vpn.eurexclearing.com:8443/Margin_Calculator/ |
| Securities Clearing GUI Simulation | https://simulation.eurexclearing.com:9443/LOGIN_GUI/ | https://simulation.vpn.eurexclearing.com:9443/LOGIN_GUI/ |
| Securities Clearing GUI Production | https://production.eurexclearing.com:8443/LOGIN_GUI/ | https://production.vpn.eurexclearing.com:8443/LOGIN_GUI/ |

**Note: IP-addresses**

- Production/Leased Line access IP-address 193.29.93.171
- Simulation/Leased Line access IP-address 193.29.93.172
- Production/Internet Line access IP-address 193.29.90.161
- Simulation/Internet Line access IP-address 193.29.90.162

More details about the networks and the IP-addresses is to be found in “Eurex Exchange and Eurex Clearing Network Access Manual”. The corresponding manual for C7 can be found at www.eurexclearing.com → Tech → C7 → System documentation.

# 4. Appendix B – Support information

- **Member Section**

Technical support is available under:

Phone: +49 (0) 69- 21 1 –1 78 88

E-Mail: member.section@eurex.com

- **Customer Technical Support**

Support for all technical issues is available under:

Phone: +49 (0) 69- 21 1 – <TKAM VIP Number per Client>

Fax: +49 (0) 69- 21 1 11201

E-Mail: cts@deutsche-boerse.com

- **C7 Clearing GUI**

For C7 Clearing GUI related questions a hotline is available under:

Phone: +49(0)69-211-1 12 50

Fax: +49 (0) 69-211- 1 43 34

E-Mail: clearing@eurex.com

- **EurexOTC Clear GUI**

For general OTC IRS related questions the EurexOTC Clear Hotline is available under:

Phone: +49(0)69-211-1 28 28

Fax: +49 (0) 69-211-61 28 28

E-Mail: OTCClear@eurex.com

For General Simulation related questions the OTCClear Simulation Hotline is available.

OTCClear Hotline (Simulation) Service times: 8:00 - 18:00 CET (Monday - Friday).

Phone: +49(0)69-211-1 25 25

Fax: +49 (0) 69-211-61 25 25

E-Mail: OTCClear.simulation@eurex.com

- **Prisma Margin Calculator GUI**

For general Margin Calculator related questions the EurexOTC Clear Hotline is available.

EurexOTC Clear Hotline (**Production**)

Service times: 08:00 - 22:00 CET (Monday – Friday)

Phone: +49 (0) 69-211-1 28 28

Fax: +49 (0) 69-211-61 28 28

E-Mail: OTCClear@eurex.com

## Appendix B – Support information

For General Simulation related questions the OTCClear Simulation Hotline is available.

OTCClear Hotline (Simulation) Service times: 8:00 - 18:00 CET (Monday - Friday).

Phone: +49 (0) 69-211-1 25 25

Fax: +49 (0) 69-211-61 25 25

E-Mail: OTCClear.simulation@eurex.com

# 5. Appendix D – Browser setup details

## 5.1 Internet Explorer

The provided examples are relevant for Microsoft Internet Explorer 11.

- **Enable session cookie handling:**

1. Click on the **Tools** menu.
2. Select **Internet Options** in the menu - a new window opens.
3. Click on the **Privacy** tab near the top of the window.
4. Click on the **Advanced** button of the window.
5. Select the Option **Override automatic cookie handling** and choose **Accept** for First- and Third-party Cookies.
6. Save changes by clicking **OK**.

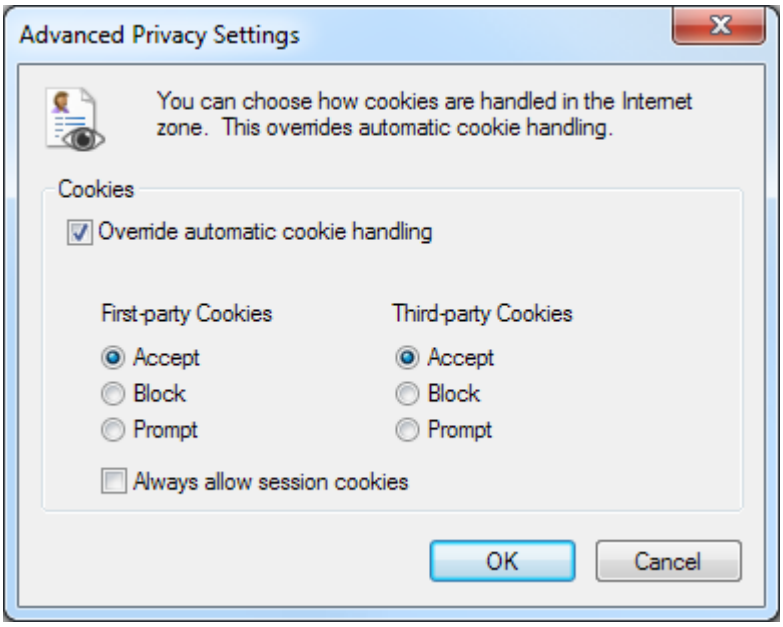



Figure 1: Advanced Privacy Settings (Cookie handling) for Internet Explorer

- **Allow Javascript execution**

1. In **Tools**, click **Internet Options**, and then click on **Security** tab.
2. Click the **Internet** zone and choose **Custom Level.**
3. Set the corresponding settings as shown below and click **OK**.

## Appendix D – Browser setup details

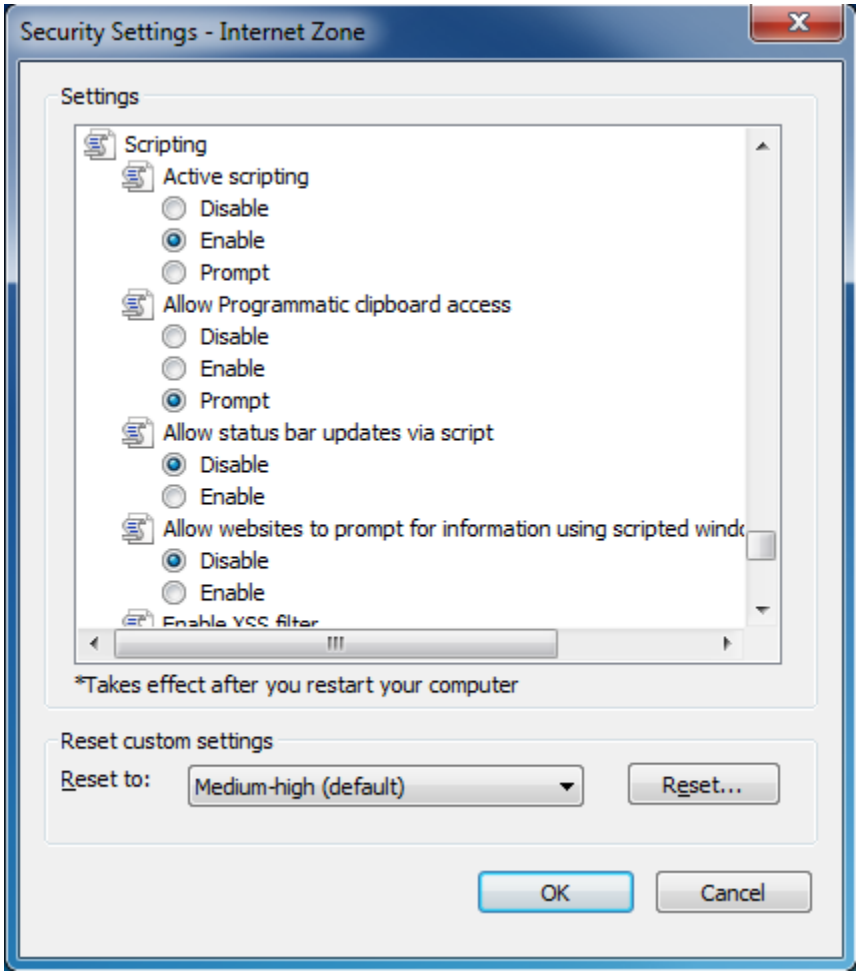



Figure 2: Configuration of Security Settings for Internet Explorer

**Note:** To allow scripting on one special website only and to leave scripting disabled in the Internet zone, add this one website to the trusted sites zone.

- **Support security protocol TLS 1.2**

The below settings can be set as follows.

1. On the **Tools** menu, click **Internet Options**.
2. On the **Advanced** tab under **Security** the following box must be ticked:
   - Use TLS 1.2
3. Click Apply, and then click OK.

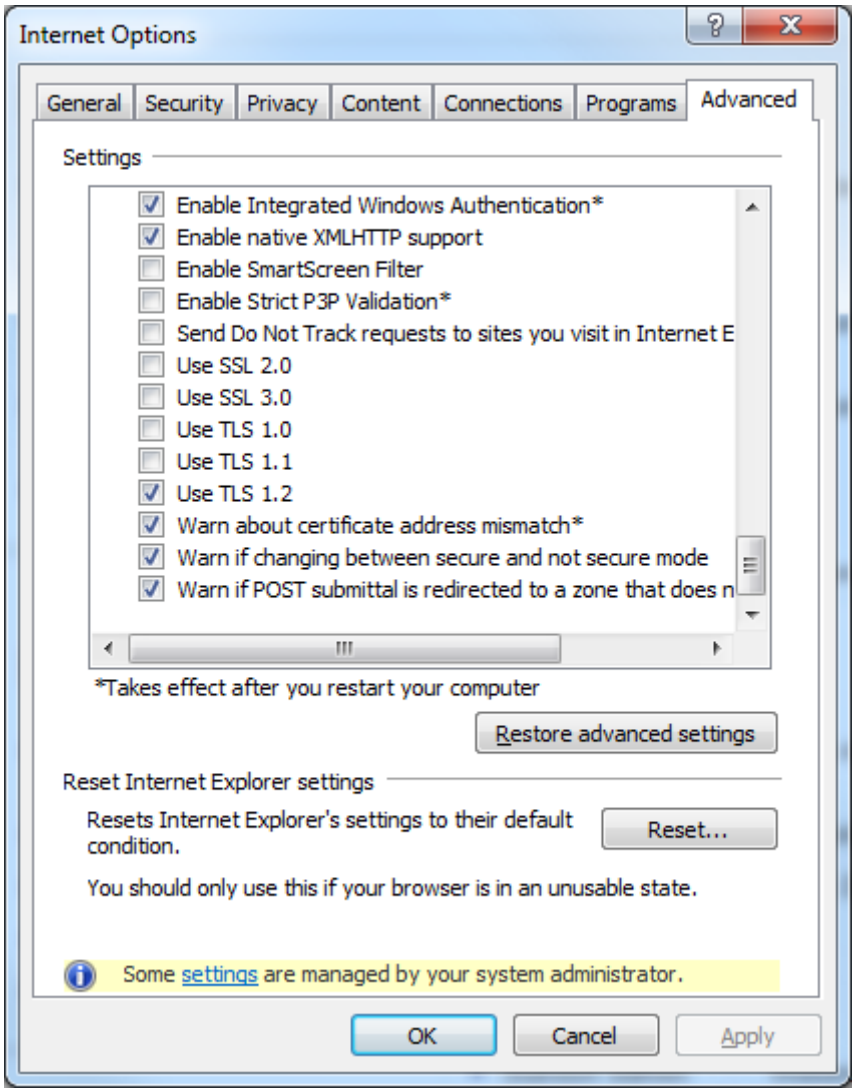



Figure 3: Enabling secured transport protocols for Internet Explorer

## 5.2 Firefox

- **Enable session cookie handling**

Cookies are enabled by default in Firefox.

1. At the top of the Firefox window, click on the Firefox button and then click Options.
2. Select the Privacy panel.
3. Under History: Select Use custom settings for history from dropdown menu.
4. Tick Accept cookies from sites to enable Cookies and untick it to disable them.

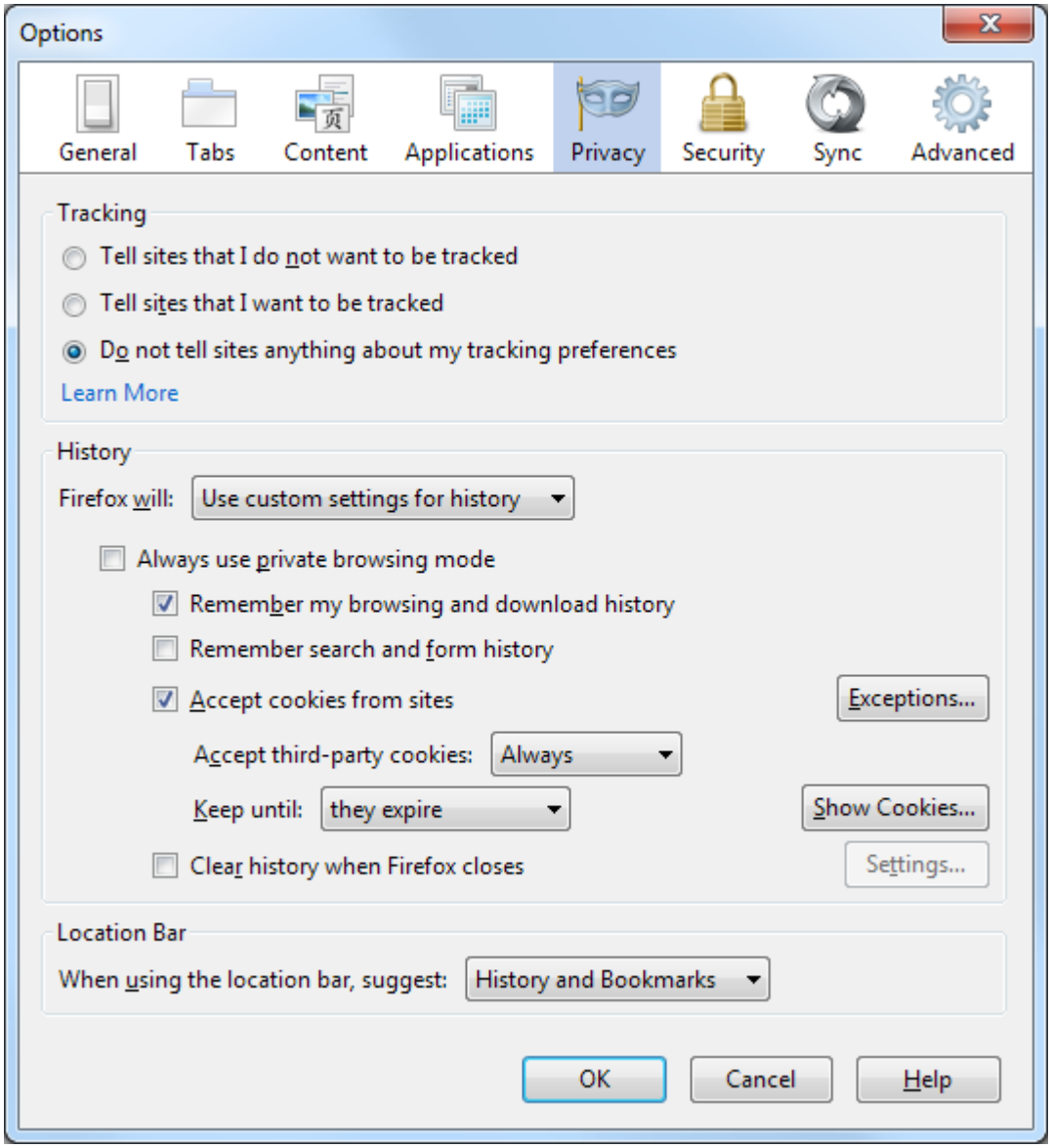



Figure 4: Cookie handling for Firefox

Choose how long cookies are allowed to be stored:

- Keep until: *they expire*: Each cookie will be removed when it reaches its expiration date, which is set by the site that sent the cookie.
- Keep until: *I close Firefox*: The cookies that are stored will be removed when Firefox is closed.

- **Allow JavaScript execution**

JavaScript execution must be enabled in the Firefox Browser. This is a default setting in newer Firefox versions. It can be checked by entering `about:config` directly into the Firefox browser as shown below.

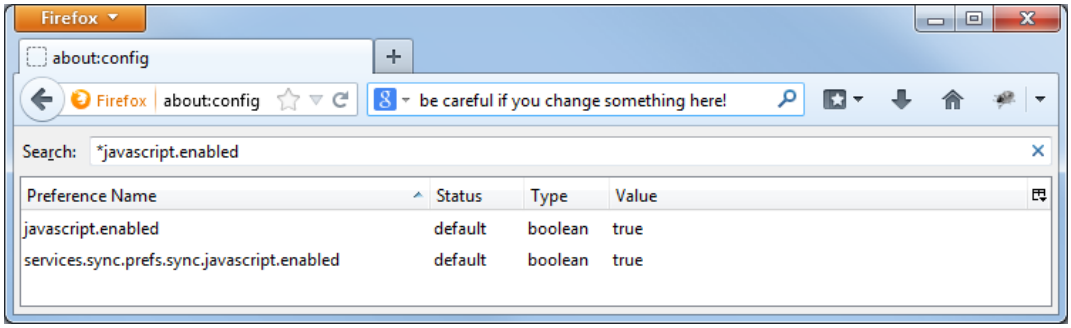



Figure 5: Checking if JavaScript execution is enabled for Firefox

In some older Firefox versions JavaScript execution must be enabled manually (see the example below).

1. In the Options window, select the Content tab.
2. Check box Enable JavaScript: Select this option to permit the execution of JavaScripts.

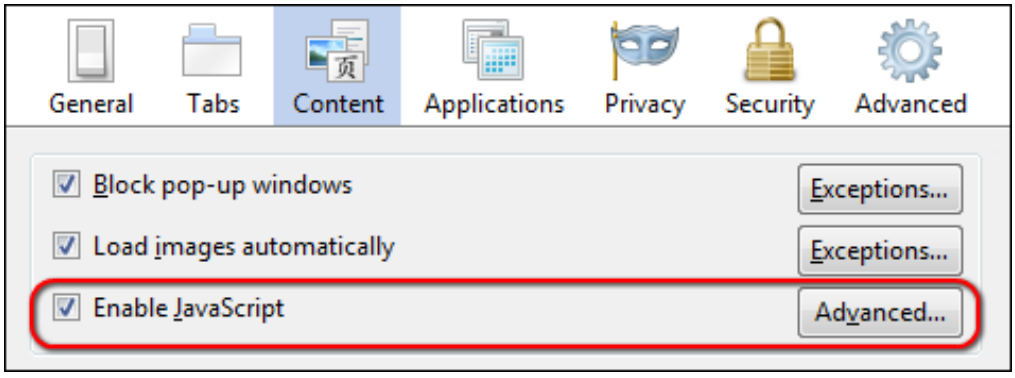



Figure 6: Enabling of JavaScript for Firefox

- **Support security protocol TLS 1.2**

In newer Firefox versions TLS protocols are being used per default.

## 5.3 Google Chrome

- **Enable session cookie handling**

Cookies are usually enabled per default in Google Chrome. This can be checked by entering `chrome://settings/content` directly into the browser as shown below.

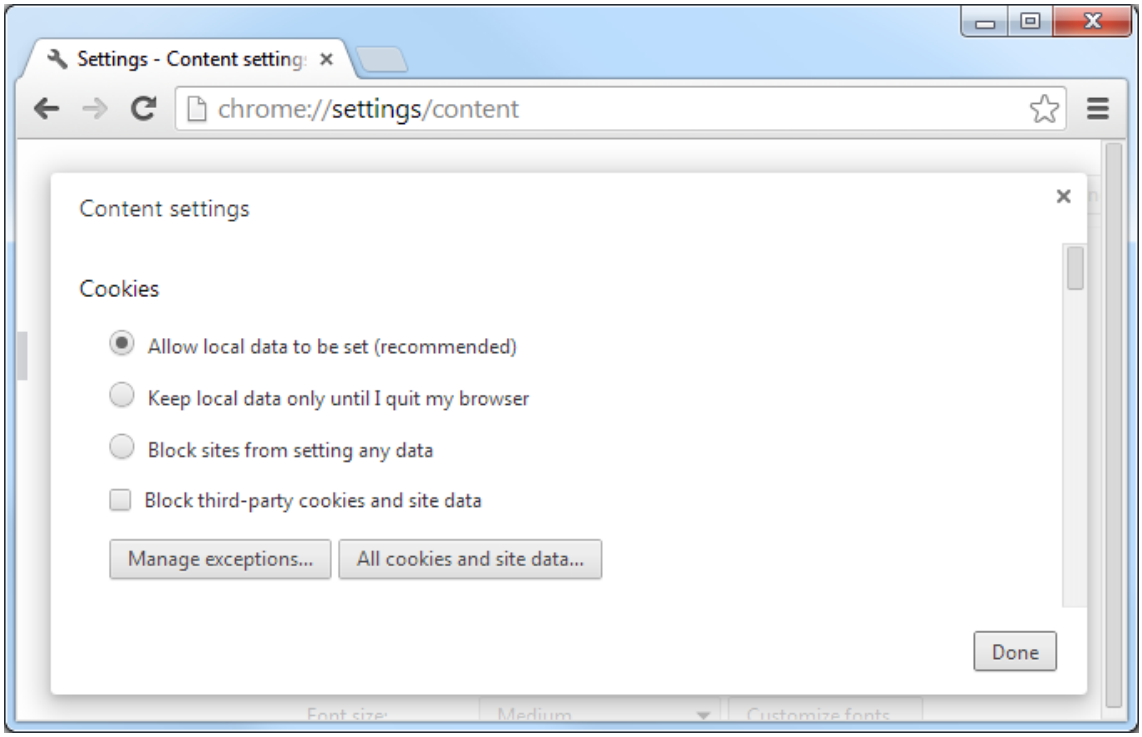



Figure 7: Enabling cookies for Google Chrome

- **Allow JavaScript execution**

JavaScript is usually enabled per default in Google Chrome. This can be checked by entering `chrome://settings/content` directly into the browser as shown below.

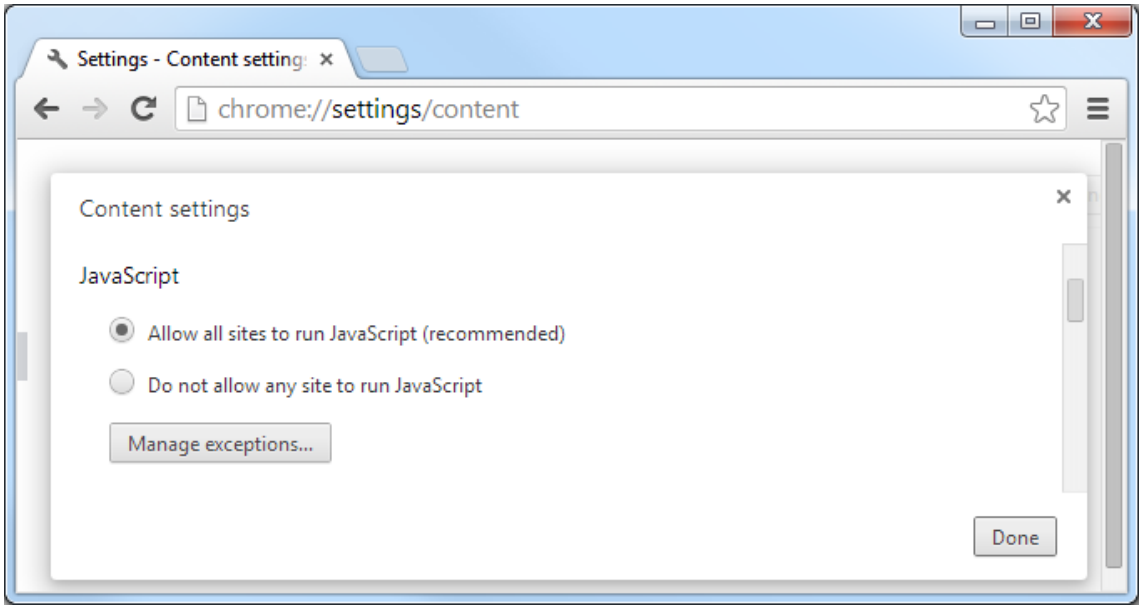



Figure 8: Enabling of JavaScript for Google Chrome

- **Support security protocol TLS 1.2**

1. On the Control Panel click **Internet Options**.
2. On the Advanced tab under Security, make sure that the following box is ticked:

- Use TLS 1.2

3. Click Apply, and then click **OK**.

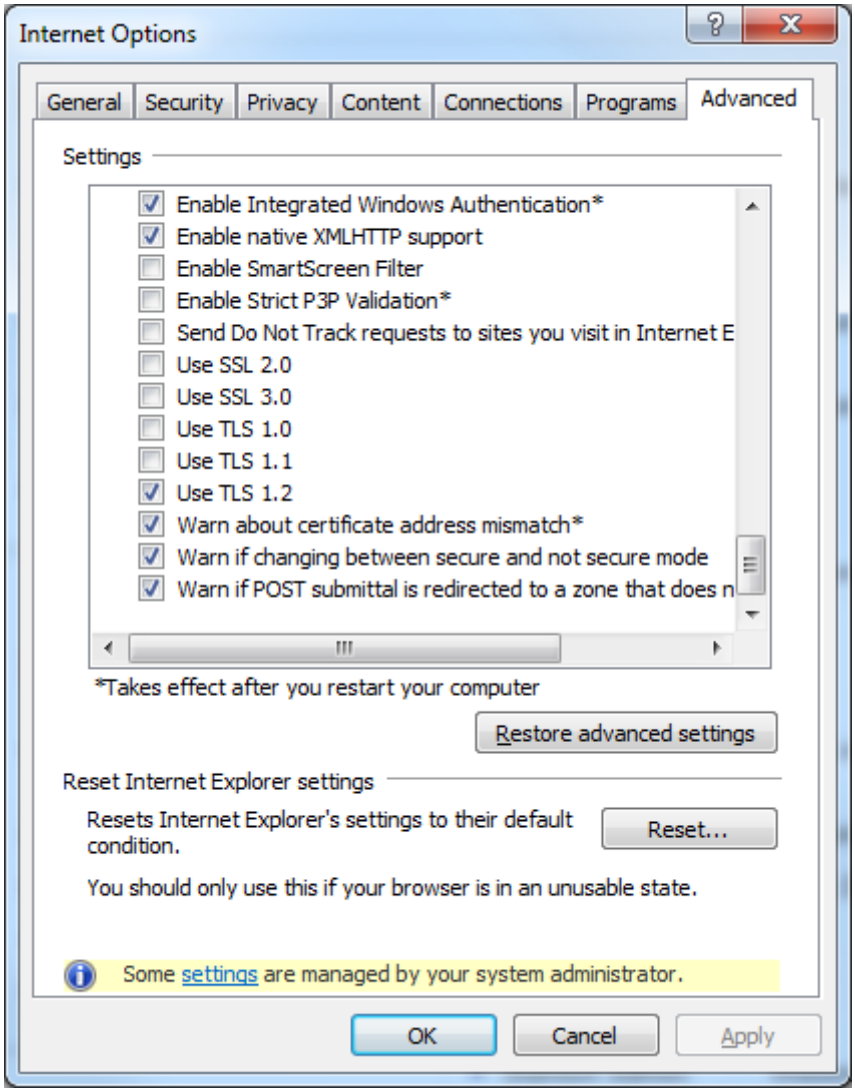



Figure 9: Enabling secured transport protocols for Google Chrome

# 6. Change log

Major changes applied to this document after the last version has been published.

| Version | Date | Change |
|---|---|---|
| 3.2 | 21.03.2016 | IP Address web application |
| 3.3 | 26.06.2017 | C7 release 4.0 update |
| 3.4 | 28.05.2019 | Updated list of browsers |
| 3.5 | 09.02.2021 | Updated document paths on the Eurex website and supported TLS version |