

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 3.7

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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.

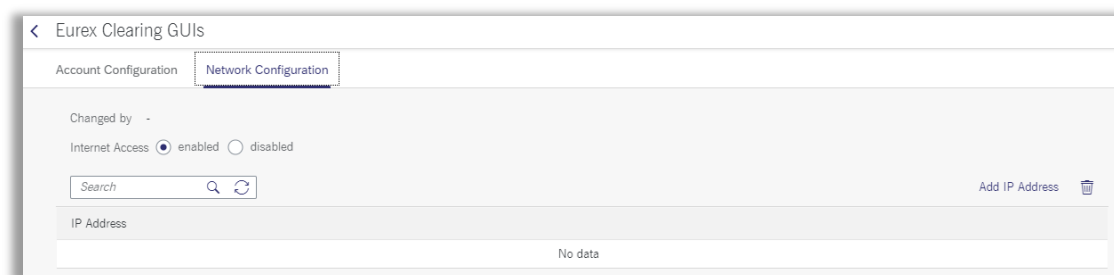
For the connection via Internet the Member can choose one of the following options:

- 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

Introduction

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.
- Google Chrome
- Microsoft Edge

The required browser settings are:

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

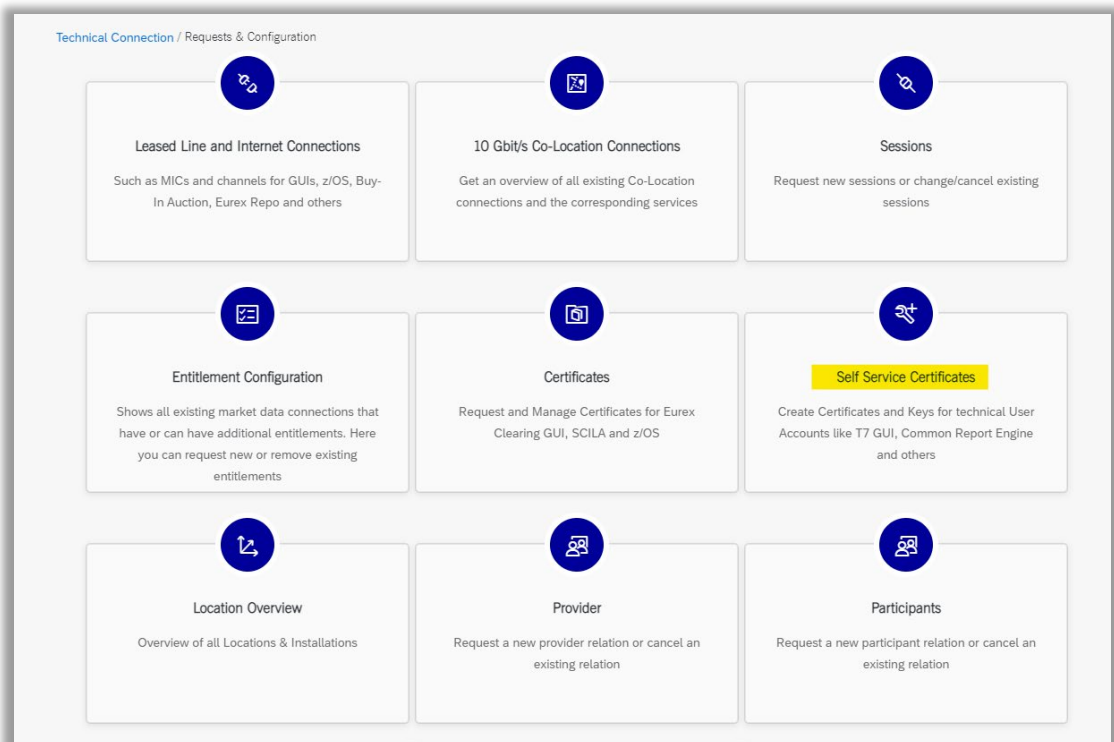
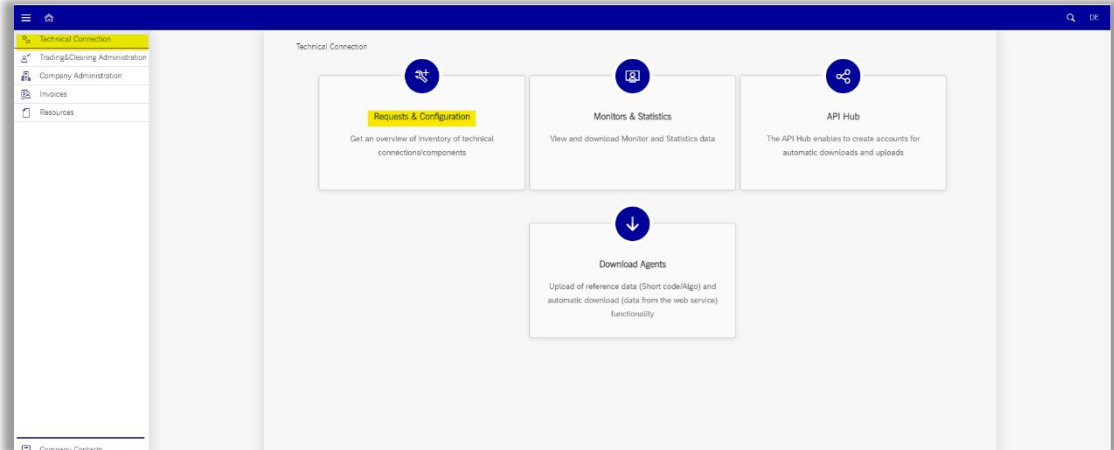
Note: See "Appendix D – Browser setup details" for further information about browser settings.

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

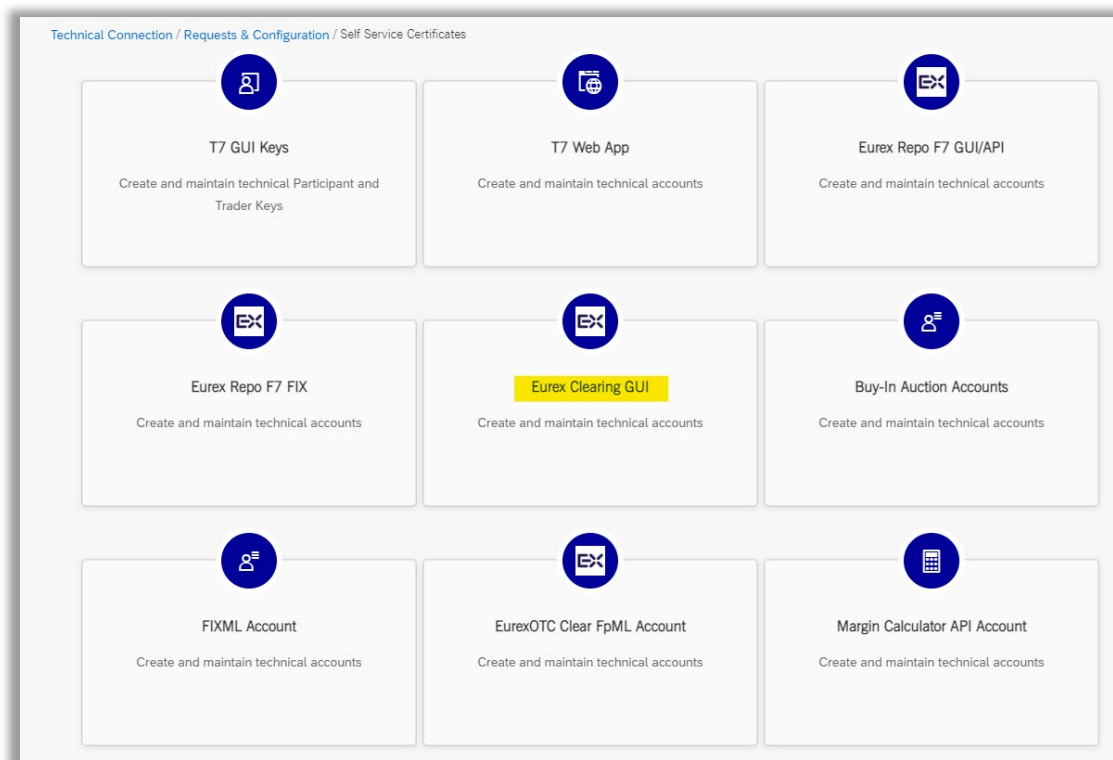
Generate Certificates

2. Generate Certificates

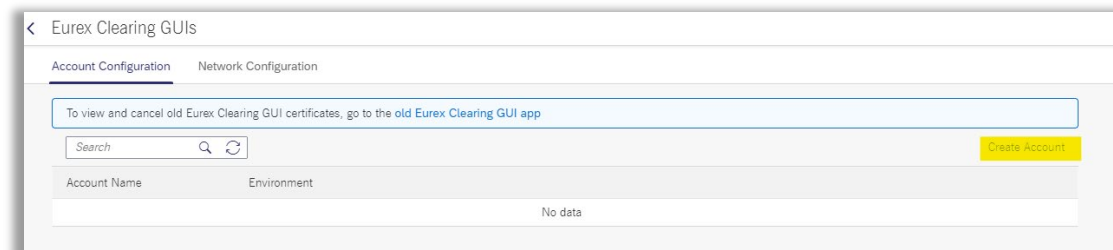
On the Member Section, go to Technical Connection / Requests and Configuration / Self Service Certificates / Eurex Clearing GUI:



Generate Certificates



Click on the Create Account button:



Fill out all the required fields and save the new account.

Important: Go to the certificate creation only after the account is saved!

Now you can create the certificate by clicking the + button and following the process.

Once the certificate is generated, click the Save button and download the certificate to a secure location.

The certificates are valid for two years. To avoid interruptions in your access to the Clearing GUIs, a new Clearing GUI certificate should be created before the current one expires.

Finally, you have to import the certificate into the browser of the GUI user. Please note that you will be prompted to enter the certificate password you chose during the certificate creation process.

Once you have imported the certificate into the browser, you can login to the Clearing GUIs. It may take around half an hour for a new certificate to be usable for GUI logins.

Appendix A – URL overview

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.

Appendix B – Support information

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

Appendix B – Support information

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

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

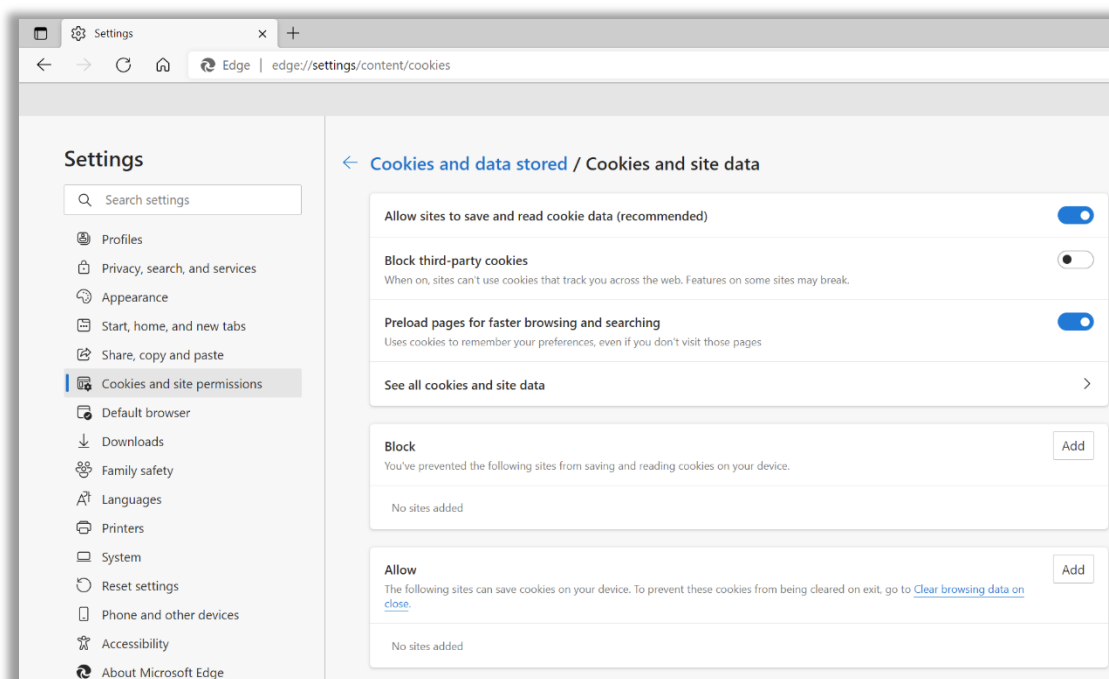
E-Mail: OTCClear.simulation@eurex.com

5. Appendix D – Browser setup details

5.1 Microsoft Edge

Enable session cookie handling:

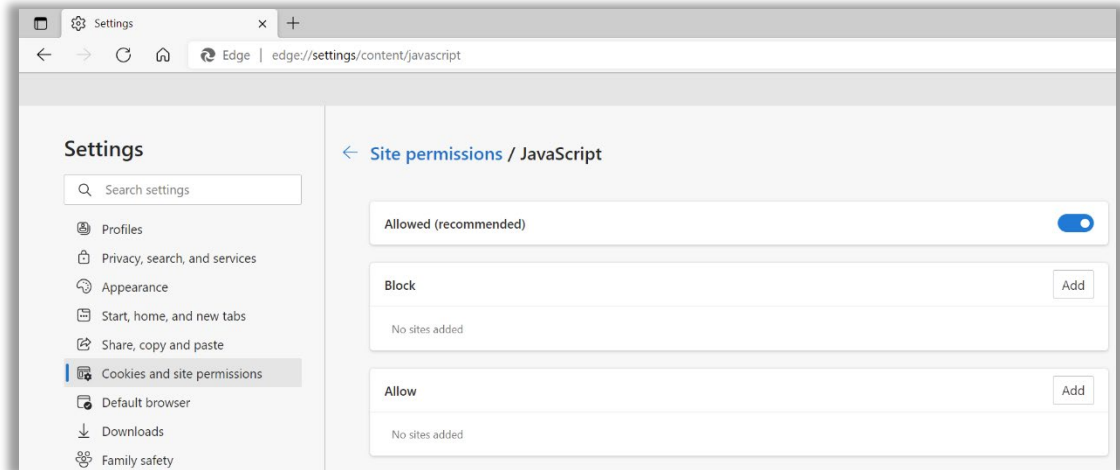
1. Open the browser settings
2. Go to the **Cookies and site permissions** section
3. Click on **Manage and delete cookies and site data**
You can also go there directly via this URL: `edge://settings/content/cookies`
4. Activate the option to **Allow sites to save and read cookie data (recommended)**



Appendix D – Browser setup details

Allow JavaScript execution

1. Open the browser settings
2. Go to the **Cookies and site permissions** section
3. Under **Site Permissions** select **JavaScript**
You can also go there directly via this URL: `edge://settings/content/javascript`



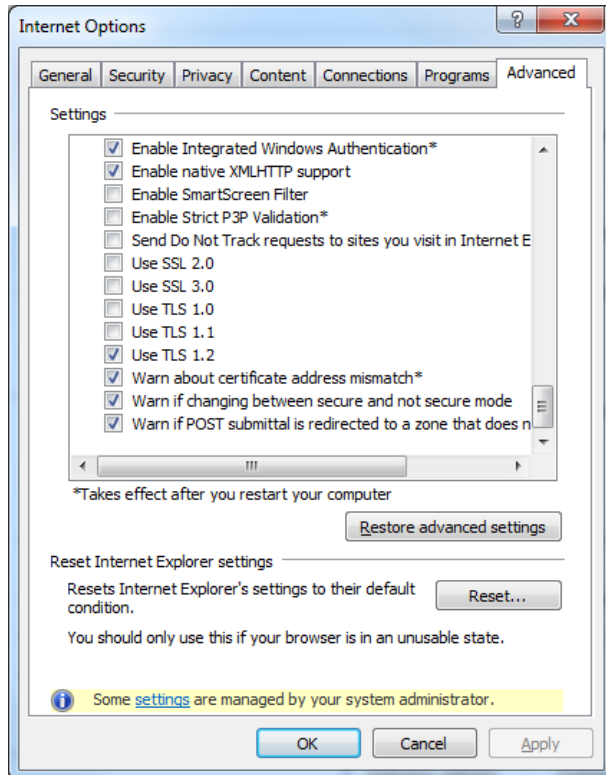
Note: To allow JavaScript for the Eurex Clearing GUIs only and to leave it disabled for other sites, add `eurexclearing.com` to the Allowed sites.

Appendix D – Browser setup details

Support security protocol TLS 1.2

The below settings can be set as follows.

1. In the Windows start menu search box, search for **Internet options** and open it
2. On the **Advanced tab**, scroll down to the **Security** section
3. Check the **Use TLS 1.2** checkbox



4. Click **OK**
5. Restart the browser

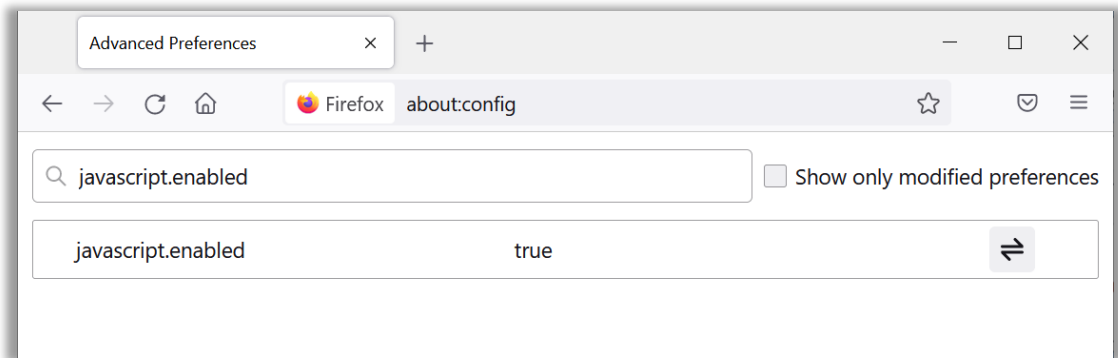
5.2 Firefox

Enable session cookie handling

Cookies are enabled by default and only restricted if this is explicitly entered for a particular site. Please make sure that eurexclearing.com is not listed for blocking cookies.

Allow JavaScript execution

JavaScript execution is enabled by default. It can be checked by entering “about:config” directly into address bar in the Firefox browser as shown below.



Then you can search for the JavaScript setting by filtering for “javascript.enabled”. This setting should be “true”. In case it’s not, it can be toggled via the button with the arrows.

Support security protocol TLS 1.2

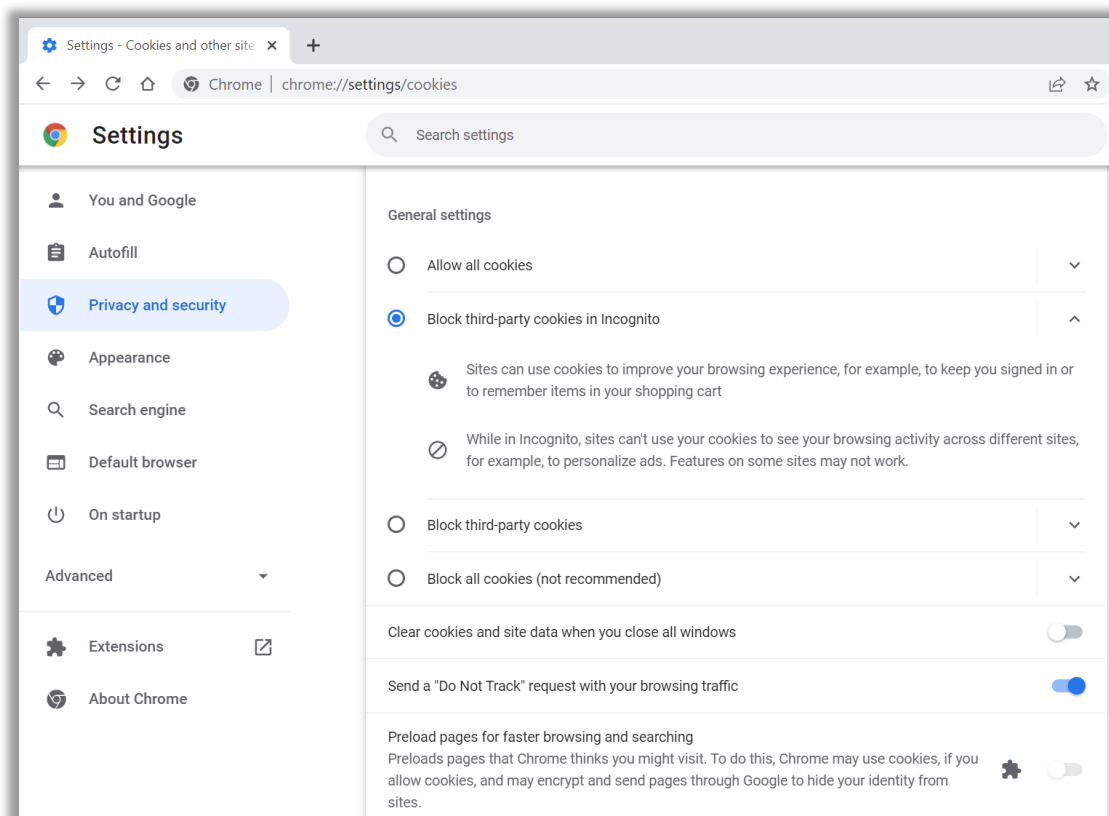
In current Firefox versions TLS protocols are used by default.

Appendix D – Browser setup details

5.3 Google Chrome

Enable session cookie handling

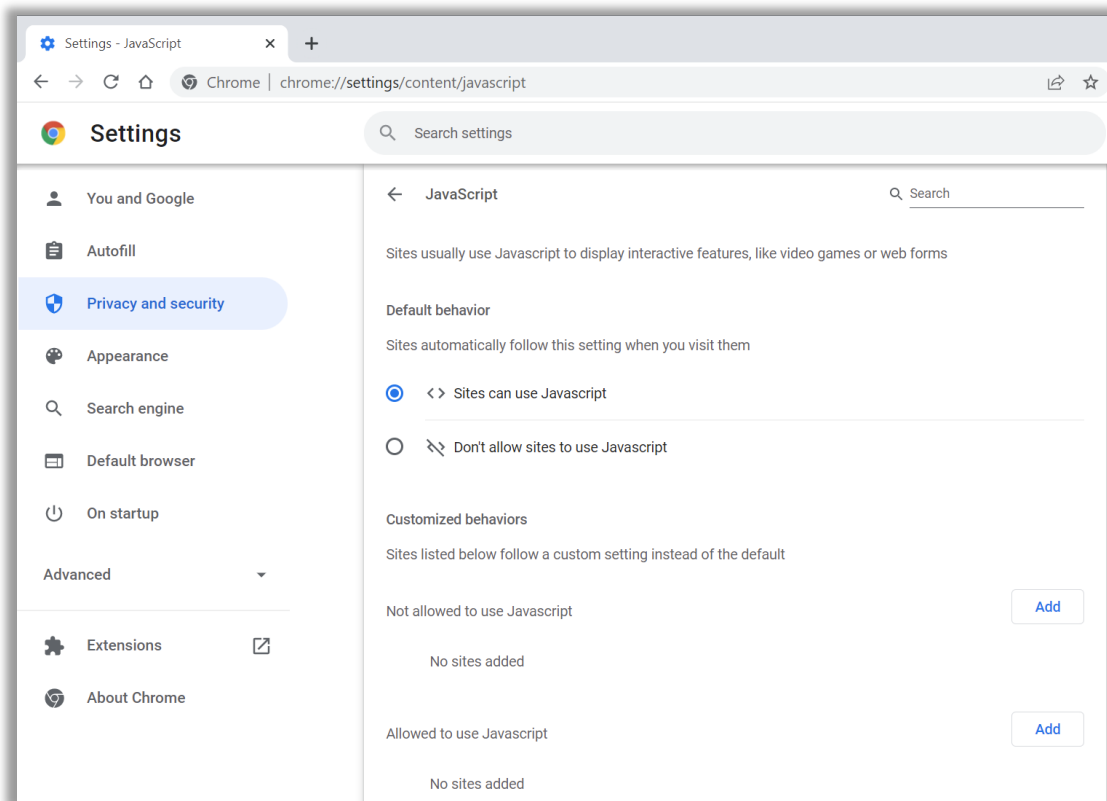
Cookies are usually enabled by default in Google Chrome. This can be checked by entering “chrome://settings/cookies” directly into the browser as shown below.



Appendix D – Browser setup details

Allow JavaScript execution

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

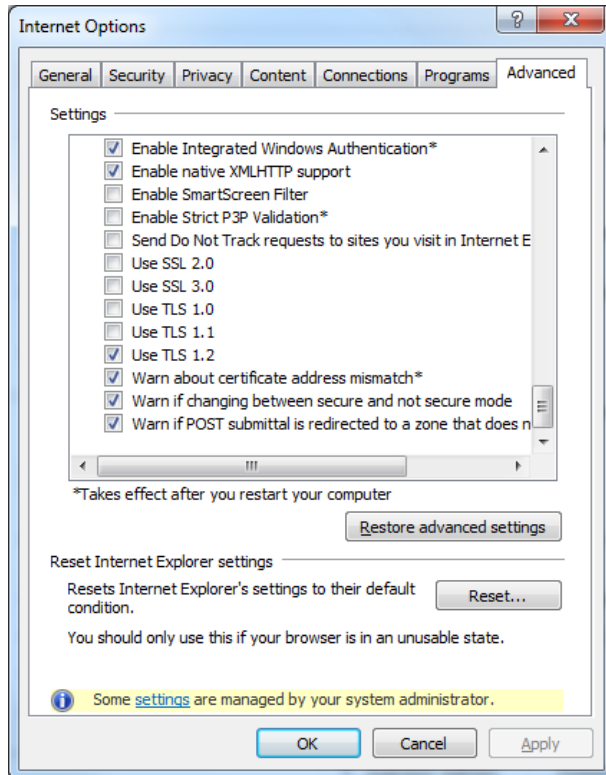


Appendix D – Browser setup details

Support security protocol TLS 1.2

The below settings can be set as follows.

1. In the Windows start menu search box, search for **Internet options** and open it
2. On the **Advanced tab**, scroll down to the **Security** section
3. Check the **Use TLS 1.2** checkbox



4. Click **OK**
5. Restart the browser

Change log

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 |
| 3.6 | 20.05.2022 | Updated descriptions in browser setup details. Replaced MS Internet Explorer with Edge in supported browsers. |
| 3.7 | 02.12.2022 | Updated chapter about certificate creation. |