



Eurex Clearing

Clearing Web GUI Access Guide

Access to Clearing Web GUI Systems

C7 Clearing GUI EurexOTC Clear GUI Prisma Margin Calculator GUI

Version 3.9

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Introduction

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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

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: <u>http://www.eurexclearing.com</u> > 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.

Eurov	Clearing ·	Cloaring	CILLO
	Cleaning		GUIS

Introduction

Eurex Clearing GUIs	
Account Configuration Network Configuration	
Changed by -	
Internet Access 💿 enabled 🔿 disabled	
Search Q C	Add IP Address
IP Address	

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
- Support up-to-date cypher suites. Suites with known vulnerabilities are not supported.

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.

-	<u>.</u>	<u>.</u>	<u></u>
Eurex	Clearing -	 Clearing 	GUIS

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2. Generate Certificates

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

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pany Administration		20+			
ces			U		
urces	Request	& Configuration	Monitors & Statistics	API Hub	
		of inventory of technical	View and download Monitor and Statistics data	The API Hub enables to create accounts for	
		ions/components		automatic downloads and uploads	
			Download Agents		
			Upload of reference data (Short code/Algo) and automatic download (data from the web service)		
			automatic download (data from the web service) functionality		
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Technical Connection / Reques	ts & Configuration				
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8	le la	
T7 GUI Keys Create and maintain technical Participant and Trader Keys	T7 Web App Create and maintain technical accounts	Eurex Repo F7 GUI/API Create and maintain technical account
		ß
Eurex Repo F7 FIX Create and maintain technical accounts	Eurex Clearing GUI	Buy-In Auction Accounts Create and maintain technical account
8		
FIXML Account	EurexOTC Clear FpML Account	Margin Calculator API Account
Create and maintain technical accounts	Create and maintain technical accounts	Create and maintain technical account

Click on the Create Account button:

Configuration	lational Configuration		
Account Configuration	Network Configuration		
To view and cancel old Eu	ex Clearing GUI certificates, go to the old Eurex Clearing GUI app		
Search	20		Create Account
Account Name	Environment		
	N.	o data	

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.

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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	https://simulation.eurexclearing.com:	https://simulation.vpn.eurexclearing.com:
Simulation	9443/OTC_GUI/	9443/OTC_GUI/
EurexOTC Clear GUI	https://production.eurexclearing.com:	https://production.vpn.eurexclearing.com:
Production	8443/OTC_GUI/	8443/OTC_GUI/
Prisma Margin Calculator	https://simulation.eurexclearing.com:	https://simulation.vpn.eurexclearing.com:
GUI Simulation	9443/Margin_Calculator/	9443/Margin_Calculator/
Prisma Margin Calculator	https://production.eurexclearing.com:	https://production.vpn.eurexclearing.com:
GUI Production	8443/Margin_Calculator/	8443/Margin_Calculator/

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 \rightarrow Tech \rightarrow C7 \rightarrow System documentation.

Appendix B – Support information

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4. Appendix B – Support information

Member Section

Technical support is available under: Phone: +49 (0) 69- 21 1 –1 78 88 E-Mail: <u>member.section@eurex.com</u>

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: <u>cts@deutsche-boerse.com</u>

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: <u>clearing@eurex.com</u>

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: <u>OTCClear@eurex.com</u>

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: <u>OTCClear.simulation@eurex.com</u> Appendix B – Support information

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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

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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)

□ \$\$	Settings × +					
$\leftarrow \rightarrow$	C n Edge edge://se	ttings/content/cookies				
Set	Settings Cookies and data stored / Cookies and site data					
Q	Search settings					
3	Profiles	Allow sites to save and read cookie data (recommended)				
ĉ	Privacy, search, and services	Block third-party cookies	\bullet			
3	Appearance	When on, sites can't use cookies that track you across the web. Features on some sites may break.				
	Start, home, and new tabs	Preload pages for faster browsing and searching				
Ŕ	Share, copy and paste	Uses cookies to remember your preferences, even if you don't visit those pages				
G	Cookies and site permissions	See all cookies and site data	>			
G	Default browser					
$\overline{\uparrow}$	Downloads	Block	Add			
쓩	Family safety	You've prevented the following sites from saving and reading cookies on your device.				
At	Languages	No sites added				
6	Printers					
	,	Allow	Add			
0	Reset settings	The following sites can save cookies on your device. To prevent these cookies from being cleared on exit, go to Clear browsing data on close.				
	Phone and other devices					
77	Accessibility	No sites added				
9	About Microsoft Edge					

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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

🗊 🕄 Settings 🛛 🗙 +						
← → C A & Edge edge://settings/content/javascript						
Settings	Settings < Site permissions / JavaScript					
Q Search settings						
B Profiles	Allowed (recommended)					
Privacy, search, and services						
Appearance	Block	Add				
🔄 Start, home, and new tabs	No sites added					
🖄 Share, copy and paste	NO SILES BULLED					
Cookies and site permissions						
Default browser	Allow	Add				
↓ Downloads	No sites added					
😤 Family safety						

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.

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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

Internet Options					
General Security Privacy Content Connections Programs Advanced					
Settings					
Settings Image: Construct of the system of the sy					
*Takes effect after you restart your computer					
Restore advanced settings					
Reset Internet Explorer settings					
Resets Internet Explorer's settings to their default Reset					
You should only use this if your browser is in an unusable state.					
Some <u>settings</u> are managed by your system administrator.					
OK Cancel Apply					

- 4. Click OK
- 5. Restart the browser

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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.

Advanced Preferences	×	+		_		×
\leftarrow \rightarrow C \textcircled{a}	单 Firefox	about:config		ŝ	\bigtriangledown	≡
Q javascript.enabled			Show on	ly modified	l prefere	ences
javascript.enabled	true				≠	

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

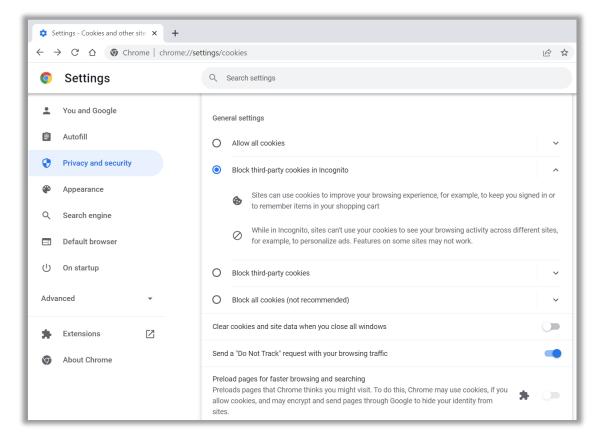
In current Firefox versions TLS protocols are used by default.

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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.



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.

Settings - JavaScript × +				
\leftrightarrow \rightarrow C \triangle (Chrome chrome://set	ttings/content/javascript			
Settings	Q, Search settings			
You and Google	← JavaScript Q Search			
â Autofill	Sites usually use Javascript to display interactive features, like video games or web forms			
Privacy and security	Default behavior			
Appearance	Sites automatically follow this setting when you visit them			
Q Search engine	Sites can use Javascript			
Default browser	O 🕅 Don't allow sites to use Javascript			
() On startup	Customized behaviors			
Advanced 👻	Sites listed below follow a custom setting instead of the default			
	Not allowed to use Javascript	Add		
🚖 Extensions 🔀	No sites added			
S About Chrome				
	Allowed to use Javascript	Add		
	No sites added			

As of October 9, 2023

Version 3.9

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

Internet Options					
General Security Privacy Content Connections Programs Advanced					
Settings					
Settings Image: Construct of the system of the sy					
*Takes effect after you restart your computer					
Restore advanced settings					
Reset Internet Explorer settings					
Resets Internet Explorer's settings to their default Reset					
You should only use this if your browser is in an unusable state.					
Some <u>settings</u> are managed by your system administrator.					
OK Cancel Apply					

- 4. Click OK
- 5. Restart the browser

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.
3.8	24.05.2023	Added a point to the browser requirements that insecure cypher suites are not supported.
3.9	09.10.2023	Removed decommissioned Securities Clearing GUI