



Eurex Clearing - C7 SCS 3.7

Member Simulation Guide

Eurex Clearing AG

C7 Securities Clearing Service (C7 SCS) 3.7

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Abstract

The document illustrates the approach of the C7 SCS 3.7-member simulation. It describes all simulation guidelines, timelines, plan, processes, requirements, and responsibilities necessary to participate successfully in the C7 SCS 3.7-member simulation.

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1 Introduction

With C7 SCS Release 3.7, Eurex Clearing will introduce Home Market Settlement (HMS) for Eurex physical deliveries. This new optional service provides the possibility for Clearing Members to settle physical deliveries resulting from Eurex equity options and futures at the domestic CSD ("Home CSD"), if the domestic CSD is one of Euroclear's ESES CSDs: Euroclear France (SIC), Euroclear Nederland (NEC) or Euroclear Belgium (CIK) for a predefined list of underlying instruments.

Furthermore, with the amendments to CSDR RTS Art.19, clients will have to adapt their internal penalty processing according to changes forced by regulators.

Finally, enhancement to GC Pooling processing will be introduced to increase the overall settlement performance of the system.

The timeline for C7 SCS Release 3.7 is as follows:

- Start of Member Simulation:
 - Home Market Settlement at ESES CSDs for Eurex physical deliveries: 1 July 2024
 - Enhancement to GC Pooling processing: **15 July 2024**
 - CSDR-Refit related technical changes will be implemented: **15 July 2024**. Simulation environment will continue to be a "current" production like until production launch.
- Production Launch:
 - Eurex Clearing processing with regards to CSDR RTS Art. 19 amendments: 2 September 2024
 - Home Market Settlement at ESES CSDs for Eurex physical deliveries and enhancement to GC Pooling processing: 23 September 2024

This document is structured as follows:

Chapter 2 focuses on the approach of the C7 SCS 3.7 simulation with its simulation objectives, timelines, and the target group of this document.

Chapter 3 describes the Simulation Execution including test cases preparation and execution of the Home Market Settlement, changes due to the amendments to CSDR RTS Art. 19, and enhancement to

the GC Pooling processing.

Chapter 4 illustrates required technical, functional preparation for the member data set-up requirements, and member readiness statement.

Chapter 5 gives a description of the C7 SCS 3.7 simulation availability with related documentation, support contacts, and list of available instruments.

Updates in the document have been highlighted in yellow.

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2 Simulation Approach

With C7 SCS 3.7, as a first phase of Eurex Clearing's Home Market Settlement initiative, Eurex Clearing will introduce the possibility for Clearing Members to settle physical deliveries resulting from Eurex equity options and futures at the domestic CSD ("Home CSD"), if the domestic CSD is one of Euroclear's ESES CSDs, i.e. Euroclear France, Euroclear Nederland or Euroclear Belgium. The service is optional for selected underlying instruments. Furthermore, with the amendments to CSDR RTS Art. 19, clients will have to adapt their internal penalty processing according to changes forced by regulators. Finally, enhancement to GC Pooling processing will be introduced to increase the overall settlement performance of the system. Simulation participants can define and perform their own internal simulation scenarios as appropriate for new functionalities of the system. For this, members will find an overview of scenarios which are strongly recommended to be focused on in order to test specific C7 SCS functionalities (in detail in chapter 3.6). Functional and technical support will be staged during the helpdesk opening hours each simulation working day. Please refer to Chapter 8 "Support" for further details.

2.1 Simulation Objectives

The purpose of the simulation is to provide an opportunity for members to become familiar with the new C7 SCS services, functionalities and to test business procedures in preparation for the launch of C7 SCS 3.7.

Active participation in the simulation is strongly recommended. Early and frequent participation of all, Clearing Members (CM), Settlement Institutions (SI) and Trading Members (TM) facilitates the identification and solution of potential issues with respect to software, infrastructure, business, or system operations before production launch.

2.2 Target Group

This document serves as a guide for all CMs, SIs and TMs (through their CMs) participating in the simulation as well as all users of the system. Participation of all CMs and SIs in the simulation is strongly recommended. In case CM or SI are using Service Providers (SP) for their internal support, it is strongly recommended as well to also include those SPs into the simulation activities.

The following internal departments of participating member organizations should be involved:

- Trading for the generation of trades in the Trading Locations in T7 Eurex (XEUR), T7 Xetra (XETR), T7 Xetra Frankfurt (XFRA), and F7 Repo (XERE).
- Clearing, Settlement and other relevant middle-/back-office functions
- IT Infrastructure and Environment Operations
- Network Operations (WAN and LAN and SWIFT network)

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- Internal Organization and Process Management
- Risk Management
- Legal department

2.3 Simulation Timelines

The C7 SCS 3.7-member simulation to test all functionalities of the C7 SCS system is scheduled to start on 01.07.2024. Frozen Zones or interruptions in-between can take place but will be communicated upfront. The table below provides an overview of C7 SCS 3.7 key events:

| Date/Timeline | Event |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 10.06. – 21.06.2024 | Member simulation setup forms receival |
| 24.06. – 02.07.2024 | Frozen zone: HMS |
| 01.07.2024 | Start of member simulation for HMS (1 st online day) |
| 02.07.2024 | 1 st Batch Day with new HMS functionality in C7 SCS |
| 11.07. – 16.07.2024 | Frozen zone: CSDR-Refit and GC Pooling processing |
| 11.07. – 25.07.2024 | 1 st Focus weeks for HMS member testing |
| 20.08 30.08.2024 | 2 nd Focus weeks for HMS member testing |
| 15.07.2024 | Start of member simulation for CSDR-Refit ¹ and enhancement to GC Pooling processing (1 st online day) |
| 16.07.2024 | 1 st Batch Day with new CSDR-Refit ¹ and enhancement to GC Pooling processing functionalities in C7 SCS |
| 02.09.2024 | Production Launch for CSDR-Refit |
| 23.09.2024 | Production Launch for HMS and enhancement to GC Pooling processing |

Table 1: Overview of C7 SCS 3.7 key events

¹ CSDR-Refit changes will be technically available, Simulation environment will continue to be "current" production like, and no testing will be supported for CSDR Refit.

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Table 2 provides an overview of the participating (I)CSDs with their simulation environments, and their availability during the C7 SCS 3.7 simulation:

| Participating (I)CSDs | End-to-End connection Availability | Connectivity Approach |
|-------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CBF | Entire simulation period | CBF Simulation will be connected: From 01.07. to 08.08.2024 and from 19.08. to 19.09.2024 with ETE connection From 09.08. to 16.08.2024 and from 20.09. to 03.10.2024 with Simulator |
| CBL | Not planned | CBL (I)CSD Clearstream Luxembourg) will not be connected for ETE member simulation, the settlement feedback will be generated via Simulator. |
| EB | Not planned | EB (Euroclear Bank) will not be connected for ETE member simulation, the settlement feedback will be generated via Simulator. Not in scope for C7 SCS 3.7. |
| ESES CSDs (Euroclear France, Euroclear Nederland and Euroclear Belgium) | Entire simulation period | ESES CSDs (Euroclear France, Euroclear Nederland and Euroclear Belgium) are settlement locations for Home Market Settlement for Eurex physical deliveries resulting from T7 Eurex (XEUR) trading location. Simulation will be connected during Member simulation period: From 01.07. to 08.08.2024 and from 19.08. to 19.09.2024 with ETE connection From 09.08. to 16.08.2024 and from 20.09. to 03.10.2024 with Simulator |
| SIS | Not planned | SIS (SEGA Intersettle) will not be connected for ETE member simulation, the settlement feedback will be generated via Simulator. Not in scope for C7 SCS 3.7. |

Table 2: Overview of (I)CSDs participating in C7 SCS 3.7-member simulation

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It is recommended that all members adhere to the published simulation timetables in this document for the simulation execution. This will contribute to a smooth and effective simulation period and a successful production launch for all market participants. Please ensure that this document is communicated as soon as possible to your project teams and to line organizations, where applicable. Before the start of simulation, all parties involved should be aware of their tasks and the existing dependencies with other participants.

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3 Simulation Execution

This chapter describes reporting and penalty payment update due to CSDR 2024 Refit, enhancement to GC Pooling processing, and Home Market Settlement for Eurex physical deliveries. Additionally, it covers test cases preparation and execution, and ETE connection to (i)CSD and simulated feedback procedure.

3.1 Reporting and payment process update due to CSDR 2024 Refit

Today, Eurex Clearing AG in the role of a Central Counterparty (CCP) for cleared trades takes an active role in the CSDR penalty booking and reporting process via Article 19 of the CSDR Regulatory Technical Standards (RTS).

With enforcement of the amended CSDR RTS on the Settlement Discipline Regime as part of the 'CSDR 2024 Refit', the monthly penalty booking process obligations for the cleared business of CCPs is removed from RTS Art. 19. With this change, daily and monthly penalty calculation, reporting (MT537 PENA) and booking is solely performed by the CSDs on settlement account/institution level as today for non-cleared business. For process changes on (I)CSD level, please refer to the specific publications of the related (I)CSDs.

With the planned amendments to CSDR RTS Art. 19, Eurex Clearing as CCP will no longer be involved in the regular monthly penalty booking process for a breakdown on Clearing Member level.

Eurex Clearing will continue to process and report CSDR penalties in CE840 and CE845 till 31.08.2024.

The new RTS enforcement will be active from 02.09.2024, the status of the reports is as follows:

- The daily CSDR penalty member report (CE840) will contain only the amended August penalties if received from (I)CSD² and will be decommissioned on 16.09.2024.
- No change to the monthly CSDR penalty member report (CE845). Report will be decommissioned on 25.09.2024.
- No change to the billing-related report CB226. Report will be decommissioned on 25.09.2024.

For reference on the amended changes refer to the CSDR SDR RTS Art. 19.

For more details refer to C7 SCS 3.7 Release Notes.

² CE840 will be empty if no amendments received from (I)CSD. Amendments will not be simulated via simulator.

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3.2 Enhancement to GC Pooling processing

With C7 SCS Release 3.7, Eurex Clearing in close collaboration with Clearstream aims to improve and enhance the overall settlement processing of GC Pooling.

Based on the netting result for non-same day GC Pooling trades or nominal of same day GC Pooling trades, C7 SCS determines the new exposure and generates the exposure adjustment using the MT527 messages.

Currently, Clearstream's Triparty Collateral Management Service (CmaX) processes the exposure adjustments in sequential manner and processes the next exposure adjustment only after the previously requested exposure updates have been fully covered by CmaX. In future, CmaX will immediately consider the next exposure adjustment(s) for processing in case the change is in the same direction.

The processing on the C7 SCS side will be adapted to support the parallel processing accordingly. The C7 SCS reports are not impacted by this change. This enhancement aims to particularly speed up the settlement processing of the same-day trades in the same direction.

Please note that members using the T2S DCA service from Clearstream still need to fund all securities purchases up front as today.

C7 SCS will not be connected to the Clearstream's Thirdparty system CmaX, thus ETE with CmaX will not be available, and feedback will be simulated.

3.3 Home Market Settlement for Eurex physical deliveries

With C7 SCS Release 3.7, as a first phase of Eurex Clearing's Home Market Settlement initiative, Eurex Clearing will introduce the possibility for Clearing Members to settle physical deliveries resulting from Eurex equity options and futures at the domestic CSD ("Home CSD"), if the domestic CSD is one of Euroclear's CSDs, i.e. Euroclear France, Euroclear Nederland or Euroclear Belgium. The service is an optional service for CMs.

Today, Eurex Clearing offers settlement of Eurex physical deliveries at Clearstream (CBF, CBF-i), SIX SIS and Euroclear UK and International (EUI, "CREST").

Currently, Clearing Members holding their inventory at other depositories in home countries, need to realign securities between their settlement account at the home CSD and their settlement account at CBF (or SIX SIS) to facilitate settlement of Eurex physical deliveries instructed by Eurex Clearing.

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The current and envisaged connectivity to settlement locations for Eurex physical deliveries look as follows:

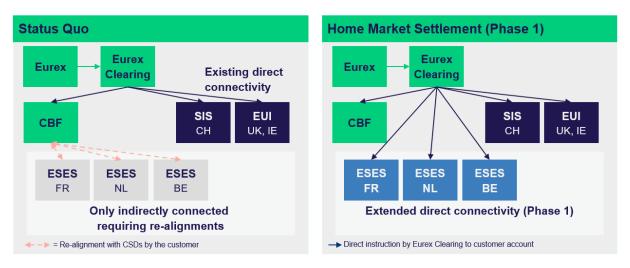


Figure 1: Extension of directly connected Settlement Locations

By establishing a connectivity to the three ESES CSDs, Eurex Clearing extends the choice of eligible settlement locations for clients and enables them to directly settle their physical deliveries at the ESES CSDs. Settlement between CBF and ESES settlement accounts is done as cross- CSD settlement via T2S.

Thereby, the re-alignment between ESES CSDs and CBF will not be required any longer. Clients willing to use the new service are requested to contact their Clearing KAM. Clients will be requested to provide details of the ESES settlement account and grant Power of Attorney (POA) to Eurex Clearing.

Please note that the Home Market Settlement offering is an optional service. No action will be required for members who wish to continue with their existing setup of settlement location, i.e. a settlement of Eurex physical deliveries in French, Dutch or Belgian equities via CBF or SIX SIS.

Eurex Clearing encourages Eurex participants, willing to use the Home Market Settlement service, to actively participate in simulation for C7 SCS Release 3.7 in order to check how the change of place of settlement will be processed in customers' internal systems.

In a first phase, Eurex Clearing will offer Home Market Settlement for Eurex Physical Deliveries in equities, which are T2S-eligible and whose primary issuer CSD ("Home CSD") is one of Euroclear CSDs, i.e. either Euroclear France, Euroclear Nederland, or Euroclear Belgium. Home Market Settlement is supported only for transactions whose settlement currency is EUR.

For member simulation, Eurex Clearing provides a dedicated list of HMS-eligible instruments which can be used for testing (in details in chapter 3.6).

For more details refer to C7 SCS 3.7 Release Notes.

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3.4 Simulation without ETE Connection to (I)CSDs but with settlement simulator

In the times (I)CSDs are not offered with an ETE availability in simulation, C7 SCS will use the settlement confirmations provided by using a simulator but not from the corresponding (I)CSDs. Based on this simulated (I)CSD settlement response, C7 SCS prepares the member relevant reports and distributes them via the CRE. Those reports are the result of the underlying trades members have concluded at the different Trading Locations. This results in a mandatory connection to the simulation systems of the connected Trading Location XEUR on the one side, but on the settlement side no member connection between the (I)CSDs and the participating members is required. Nevertheless, a connection to the CRE to receive member reports should be in place.

During the tests with no ETE availability of (I)CSDs in C7 SCS Simulation, participating members will not receive any (I)CSD reporting, and C7 SCS member reports are the only source of information for members.

Please Note: specific dates of settlement simulator availability are described in chapter 2.3.

3.5 Simulation with ETE Connection to (I)CSD

During the ETE connection with (I)CSD in simulation which will be possible with CBF and ESES (Euroclear France, Euroclear Nederland, Euroclear Belgium), the settlement feedback that participating members will receive is provided by the connected (I)CSD due to a direct involvement between C7 SCS and the related (I)CSD. For that reason, participating members can expect their individual reporting from the participating and connected (I)CSD as well.

The ETE connection with (I)CSDs might be temporarily required to switch back to the use of the simulator. This might be needed, due to potential downtimes of the participating and connected (I)CSD.

Please Note: ETE connection is always available except simulated feedback timeline specified in chapter 3.4.

Please Note: specific dates of (i)CSDs ETE availability are described in chapter 2.3.

3.6 Preparation for Testcases with HMS for Eurex physical delivery

Early preparation activities are mandatory for the participation on the testing with HMS for Eurex physical delivery with ETE Settlement in ESES CSDs in Euroclear France, Euroclear Nederland or Euroclear Belgium. Following instruments (table 3) are offered for supported ESES settlement feedback testing during following focus weeks:

- 11.07.2024 25.07.2024
- 20.08.2024 30.08.2024

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Members who want to participate in the ETE Testcases with Options Products (American exercise-style) and settlement at ESES specified in table 4 must:

- Build up positions in the respective Eurex options products (by entering orders and/or TES trades in Eurex T7)
- Exercise positions in Eurex C7 on the day when TDN for HMS physical deliveries in C7 SCS should be tested.

| Home CSD | Product Type | Eurex Product ID | U/L ISIN & Product ISIN | Name | Currency |
|-------------|-----------------|---------------------|----------------------------|----------------------|----------|
| SIC | OSTK | CAR | FR0000120172 | CARREFOUR | EUR |
| SIC | OSTK | MCH | FR001400AJ45 | MICHELIN | EUR |
| SIC | OSTK | ТОТВ | FR0000120271 | TOTALENERGIES | EUR |
| NEC | OSTK | HNK | NL0000009165 | HEINEKEN | EUR |
| СІК | OSTK | ІТК | BE0974293251 | ANHEUSER-BUSCH INBEV | EUR |
| CIK | OSTK | SOL | BE0003470755 | SOLVAY | EUR |

Table 3: HMS ETE Instruments available with ESES for American exercise-style Options Products

 In contrast to previous communication, the ISIN NL0000235190 (Airbus) will not be offered for testing.

Important Information for the test execution:

 The Simulation environment is not usable for high volume or performance tests during the C7 SCS 3.7 simulation. In order to participate in ETE testing with ESES (Euroclear France, Euroclear Nederland, Euroclear Belgium) settlement locations, members need to assure settlement account setup for Eurex physical deliveries accordingly and provide Eurex Clearing with the respective ESES settlement account details (more information in chapter 4.3).

Additional Information on availability of ESES Simulation

In addition, due to the implementation of ESES technical releases on 16 July and 20 August 2024, the reconciliation of new, pending and settled deliveries between C7 SCS and ESES will be delayed by one day during the focus weeks.

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| Date | ESES Simulation | C7 SCS Simulation | ESES Reporting ³ | C7 SCS Reporting |
|------------|-------------------------------|----------------------|----------------------------------|--------------------------------------------------------|
| 16.07.2024 | Technical release - closed | Open – batch day | No reporting | CE890/1/2 (Netting results of trades from 16.07) |
| | | | | CE860/1/2 (incl. net positions of 16.07) |
| | | | | CE870/1/2 (settlements |
| | | | | of due and late trades) ⁴ |
| 17.07.2024 | Open | Open – batch day | New deliveries from 16.07 and | CE860/1/2 (incl. pending net positions of 16.07) |
| | | | 17.07 | CE870/1/2 (settlements |
| | | | Settlements from 16.07 and 17.07 | of due and late trades) ⁴ |
| 20.08.2024 | Technical release - closed | Open – batch day | No reporting | CE890/1/2 (Netting results of trades from 20.08) |
| | | | | CE860/1/2 (incl. net positions of 20.08) |
| | | | | CE870/1/2 (settlements |
| | | | | of due and late trades) ⁴ |
| 21.08.2024 | Open | Open – batch day | New deliveries from 20.08 and | CE860/1/2 (incl. pending net positions of 20.08) |
| | | | 21.08 | CE870/1/2 (settlements |
| | | | Settlements from 20.08 and 21.08 | of due and late trades) ⁴ |

Table 4: ESES Availability Schedule

Please note that, ESES would have technical releases outside HMS Focus weeks on 08 August, 15 August and 17 September. Reconciliation of new, pending and settled deliveries between C7 SCS and ESES will also be delayed by one day on these days.

³ Please note the ESES reporting timeline might vary based on ESES systems availability.

⁴ C7 SCS will report all settlement results received from CBF/T2S during the day and NTS

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3.7 Specifics for C7 SCS 3.7 simulation with ESES ETE connection during member simulation:

Due to dependencies on the T2S simulation environment (UTEST) the number of pending instructions in simulation should be minimized by each participating member. This might of course not be valid in case certain pending instructions are required for the execution of specific testcases. All members are encouraged to reduce their pending instructions for example by providing sufficient cash or holdings, so that trades can be settled or by switching the status of a settlement instruction from "Hold" to "Released" for the full amount of the trade. The change, "Hold" and "Released" is possible only for ETE instruments via CBF CSD or ESES CSDs.

3.8 C7 SCS Simulation Calendar

The C7 SCS Release 3.7 simulation follows the Simulation Calendar for Securities Clearing Services. All Simulation Calendars of the connected environments are aligned to guarantee the services and functionalities on all batch days. The Simulation Calendar is released and published following the link: <u>www.eurex.com/ec-en/</u> > Support > Initiatives & Releases > <u>Simulation Calendar</u>

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4 Member Preparations

Members are advised to make use of the entire preparation period, in order to ensure successful participation in the C7 SCS simulation.

This Chapter describes the simulation preparation tasks to be done by CMs, SIs and TMs. The simulation preparation tasks are divided into four sections. Chapter 4.1 describes technical preparations while Chapter 4.2 displays functional preparation. Chapter 4.3 "Member Data Set-up" mentions the necessary data for member set-up in C7 SCS 3.7 simulation. Finally details about the "Member Readiness Statement" are provided in Chapter 4.4.

4.1 Technical Preparation

With the start of C7 SCS 3.7 simulation Clearing Members do not need any direct connection between their own systems and the C7 SCS application. Reports that are available to all CMs, SIs and their TMs are provided on the Common Report Engine (CRE) of DBAG. Members can reach their individual reports in the standard Securities CCP directory as they are already used to for the Eurex Clearing Securities CCP system. No additional certificates or connecting activities are required for C7 SCS.

4.1.1 Technical Connection

Clearing Members, Settlement Institutions and Trading Members are requested to verify their new or existing connections to the simulation environments of the relevant systems – CRE, ESES (Euroclear France, Euroclear Nederland, Euroclear Belgium), C7, CBF, Prisma, T2S and T7 Eurex (XEUR) interface as a trade entry. Members are encouraged to verify the availability of all applications used in the simulation and to verify, that all required users are set up and access is granted to them.

4.2 Functional Preparation

4.2.1 Functional Preparations C7 SCS

CMs' functional preparation should include the setup of the back office, staff training as well as the conclusion of arrangements with affiliated members, if applicable. Clearing Members planning to participate in the simulation should verify their individual setup/clearing relationship and inform Eurex Clearing of any changes that may be required prior to the start of the simulation. All participants planning to utilize the new functionalities in production should participate in the member simulation. The introduction of the new C7 SCS 3.7 may lead to new and/or altered back-office processes. Clearing Members are encouraged to complete the adaptations (e.g., staff training and IT applications updates) prior to the start of the simulation period. This will ensure the seamless integration of the new and enhanced clearing and settlement functionality into the existing back-office environment. Participants are also encouraged to set up an internal issue management process. The new functionalities of C7 SCS 3.7 are detailed in the current "C7 SCS 3.7 - Release Notes", which can be found on Eurex Clearings website via the following path:

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<u>www.eurex.com/ec-en/</u> > Support > Initiatives & Releases > C7 SCS Releases > <u>C7 SCS Releases 3.7</u> > select under "Overview and Functionality"

4.2.2 Settlement Account & Cash Account for Settlement

Settlement Accounts and cash accounts for CCP cash payments are required at the (I)CSDs like in production. When CBF and/ or ESES are connected to C7 SCS 3.7 simulation, sufficient cash and securities holdings on these accounts are necessary. Customers willing to test the settlement of Eurex physical deliveries at ESES have to ensure sufficient coverage in cash and securities as well.

Settlement Agents are encouraged to check their message subscription for settlement reporting and custody reporting at the (I)CSD for their Settlement Accounts.

Settlement Agents are encouraged to check their connectivity to T2S and (I)CSD with the access to T2S and (I)CSD application, incl. GUIs. It is recommended to align with the relevant (I)CSD in time in case connection tests are required before the start of simulation.

4.3 Member Data Set-up

Clients willing to use the Home Market Settlement service are requested to contact their Clearing KAM to align the necessary steps for application:

- Selection of ESES settlement account(s) per CSD they want to use.
- Provide settlement account details and HMS settlement account settings to Eurex Clearing via dedicated member forms until 21.06.2024. Request of setup received after 21.06.2024 will be performed only on best effort basis.

More details on Member Data Set-Up can be found in <u>C7 SCS 3.7 Release Notes.</u>

4.4 Member Readiness Statement

C7 SCS Release 3.7 is an optional release, Eurex Clearing AG does not require a readiness statement from the Clearing Members.

Participation in the C7 SCS Release 3.7 simulation and testing phase is optional, though highly recommended. Please consider, Eurex Clearing will offer test cases to give all participants the opportunity to get familiar with the new clearing service, check their internal set-up and processing for Home Market Settlement at ESES CSDs for Eurex physical deliveries.

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5 Simulation Reporting

C7 SCS Member Reporting

Eurex Clearing will continue to report the actual settlement location for each Net Position Trade and Delivery Instruction in existing reports:

- CB830/1 Trades Action Report
- CD850 Settled Cash Transactions Report
- CE860/1/2 Pending Delivery Report
- CE870/1/2 Settled Delivery Report
- CE890/1/2 Net Clearing Report XEUR

The new values for the fields 'settlLoc' and 'dlvSettlLoc' will be:

- "SIC" = Euroclear France
- 'NEC" = Euroclear Nederland
- "CIK" = Euroclear Belgium

There are no structural changes to existing C7 SCS reports due to Home Market Settlement.

All reports are described in more detail in the following documents of the C7 SCS project:

- "Eurex Clearing C7 SCS XML Reports Reference Manual"
- "Eurex Clearing C7 SCS XML Reports XML Schema Files"
- "C7 SCS Release Notes (updated version)"

Above documents are available under the following path:

<u>www.eurex.com/ec-en/</u> > Support > Initiatives & Releases > C7 SCS Releases > C7 SCS Release 3.7 > under "Reports"

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6 Simulation Availability

In general, three batch days a week will be performed. Please consult the C7 SCS Simulation Calendar for details on batch days per week. On all batch days nighttime processing will take place.

On batch days the simulation systems will close earlier than in production. This is in order to avoid any possible impact on the end-of-day processing operations of the production system. The C7 SCS simulation starts at 08:30 CEST and the C7 SCS online end is scheduled for 16:30 CEST. The batch day structure in simulation is described below in this chapter.

6.1 Participating Systems

A simulation cycle (either an end-to-end process or with (I)CSD Simulator) begins with the entering of orders into the Trading Location and finishes with the settlement of the trades/Delivery Instructions and the provisioning of the related reports. From a technical point of view, these processes will incorporate the applications listed below:

| Systems / Institutions | Short Description |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C7 | Eurex Clearing's C7 concludes all transactions from physical deliveries resulting from Eurex Derivatives (MIC: XEUR) and which are include in the TDN by C7 SCS |
| C7 PS | Eurex Clearing Payment system, includes all payments arising out of all Eurex Clearing transactions |
| C7 SCS | C7 Securities Clearing Services is Eurex Clearing's Central Counterparty system (Delivery Management, cash management, Trade Day Netting (TDN), report and data dissemination and update of Corporate Action Processing by the (I)CSDs in the C7 SCS Reporting) |
| CBF | Central Security Depository systems of Clearstream Banking Frankfurt (settlement, delivery management, Corporate Action Processing, collateral management etc.) CBF operated systems will run on simulation environment IMS23 |
| CBL | Central Security Depository systems of Clearstream Banking Luxembourg (settlement, delivery management, Corporate Action Processing, collateral management etc.) CBL operated systems will run via Simulator with simulated settlement feedback |
| ЕВ | Euroclear Bank (settlement, delivery management, Corporate Action Processing, collateral management etc.) EB will run via Simulator with a simulated settlement feedback |
| ESES | Central Security Depository systems for Euroclear France, Euroclear Nederland, and Euroclear Belgium (settlement, delivery management, Corporate Action Processing, collateral management etc.) |

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| Systems / Institutions | Short Description |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| F7 | The F7 Eurex repo electronic trading planform for all repo transactions concluded at C7 SCS relevant Trading Location XERE. |
| PRISMA | Eurex Clearing's position based margining calculation (risk position determination, necessary margin requirement calculation, etc.) |
| Т7 | The T7 trading platform for all transactions concluded at the C7 SCS relevant Trading Locations XETR, XFRA and XEUR. |
| T2S | European Central Bank's central technical platform for securities settlement in central bank denominated in Euro. |

Table 5: Applications involved in the daily lifecycle of the C7 SCS system

6.2 Daily Schedule

Simulation days will either be batch days (shown as batch days in the Simulation Calendar) or nonbatch days. In C7 SCS 3.7 simulation batch days will follow the Simulation Calendar. On batch days the C7 SCS simulation starts 8:30 CEST and the C7 SCS online end is scheduled for 16:30 CEST. In case of a non-batch day (and the day before was a batch day) the system starts

at 8:30 CEST. Members can insert their trades in the T7 Eurex, trading location (XEUR) till 16:00 CEST. All trades entered on non-batch days will be processed on the next business day (please see Eurex Derivatives Trading & Derivatives Clearing Simulation Calendar <u>https://www.eurex.com/ec-en/</u> > Support > Initiatives & Releases > <u>Simulation calendar</u>). Member reports are started to be generated after the end of day processing and the distribution of settlement instructions to the (I)CSDs. Member Reports are distributed and accessible for members via the CRE.

Please note: Timelines for sending Delivery Instructions to the (I)CSDs and reports to the members may vary slightly, as they depend on daily changes on the workload of the C7 SCS system.

Even if the Start of Day (SoD) is on the current batch day at 8:30 CEST, members can already start inserting their orders at the Trading Location in T7 Eurex (XEUR) after the EoD processing and the distribution of settlement instructions to the (I)CSDs on the previous batch day.

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For the detailed overview of timelines on a business day in simulation please see the following figure:

Business Day Schedule on Batch Days

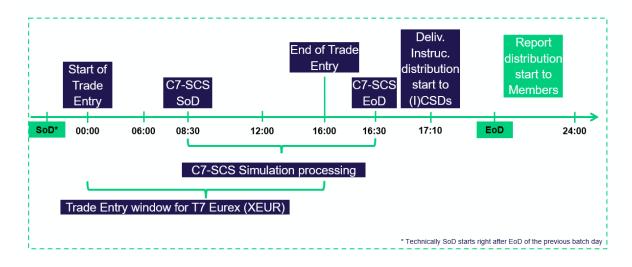


Figure 2: Batch Day Process in Central European (Summer) Time (CEST)

In Eurex C7 manual exercise can be performed during Clearing availability (08:00 - 16:30 CEST), automatic exercise as well as the assignment process take place during EoD at 16:30 CEST.

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7 Related Documentation

All member documents providing information regarding new functionalities of C7 SCS 3.7 can be found on the Eurex website at: <u>https://www.eurex.com/ec-en/</u> > Support > Initiatives & Releases > C7 SCS Releases > C7 SCS Releases 3.7.

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8 Support

Eurex Clearing Support

Eurex Clearing will provide support for member preparations during the simulation of C7 SCS 3.7. The following teams may be contacted concerning any questions related to the preparation and participation in the C7 SCS 3.7 simulation.

Customer Functional Support

| Telephone: | +49 (69) 211 – 1 03 33 |
|---------------|-------------------------------------------------|
| Availability: | 09:00 - 18:00 CEST (on exchange trading days) |
| E-Mail: | client.services@deutsche-boerse.com |
| | (or please contact your dedicated Clearing KAM) |

Helpdesk Derivatives Clearing

| Telephone: | +49-69-211-1 12 50 |
|---------------|---------------------------------------|
| Availability: | 01:00 - 22:30 CEST (on exchange days) |
| E-Mail: | clearing@eurex.com |

Helpdesk Securities Clearing

| Telephone: | +49 (69) 21 1 – 1 19 40 |
|---------------|-----------------------------------------------|
| Availability: | 07:00 - 19:00 CEST (on exchange trading days) |
| E-Mail: | ccp@eurex.com |

Functional Helpdesk Eurex

| Telephone: | +49 (69) 211 – 1 12 10 |
|---------------|-------------------------------------|
| Availability: | 01:00-24:00 CEST (on exchange days) |
| E-Mail: | eurextrading@eurex.com |

Clearstream Connectivity Services

| Telephone: | +49 (69) 211 – 1 15 90 |
|---------------|-------------------------|
| Availability: | 09:00 - 18:00 CEST |
| E-Mail: | connect@clearstream.com |

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9 Abbreviations

| Abbreviations | Description |
|---------------|---------------------------------------------------|
| (i)CSD | (International) Central Securities Depository |
| AG | Aktiengesellschaft (public limited company) |
| BAU | Business as usual |
| C7 | Eurex Derivatives Clearing system |
| C7 PS | Eurex Clearing Payment system |
| C7 SCS | C7 Securities Clearing Service |
| CBF | Clearstream Banking Frankfurt |
| CBF-i | Clearstream Banking Frankfurt International |
| CBL | Clearstream Banking Luxembourg |
| ССР | Central Clearing Counterparty |
| CEST | Central European Summer Time |
| СІК | Euroclear Belgium |
| СМ | Clearing Member |
| CRE | Common Report Engine |
| CSD | Central Securities Depositories |
| DBAG | Deutsche Boerse AG |
| EB | Euroclear Bank |
| EDP | Clearing Electronic Data Processing |
| EOC | Euroclear Bank |
| ESES | Euroclear Settlement for Euronext Zone Securities |
| ETE | End-To-End |
| EUI | Euroclear UK and International |
| F7 | Eurex Repo's trading system F7 |
| FWB | Frankfurter Wertpapierbörse |
| GC | General Collateral |
| GUI | Graphical User Interface |
| HMS | Home market settlement |
| ISIN | International Securities Identification Number |

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| Abbreviations | Description |
|---------------|--------------------------------------------------------------|
| NEC | Euroclear Nederland |
| Prisma | Eurex Clearing's position based margining calculation system |
| SDS | Same day settlement |
| SI | Settlement Institution |
| SIC | Euroclear France |
| SoD | Start of Day |
| SP | Service Provider |
| T2S | TARGET2-Securities |
| TDN | Trade day netting |
| TES | Trade Entry Service |
| ТМ | Trading Member |
| XERE | Eurex repo electronic trading planform |
| XETR | T7 Xetra trading location |
| XEUR | T7 Eurex trading location |
| XFRA | Börse Frankfurt trading location |

Table 6: Abbreviations