# Service Description & Specifications
# Spanish Market

# Cboe Clear

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# 1. Service Description

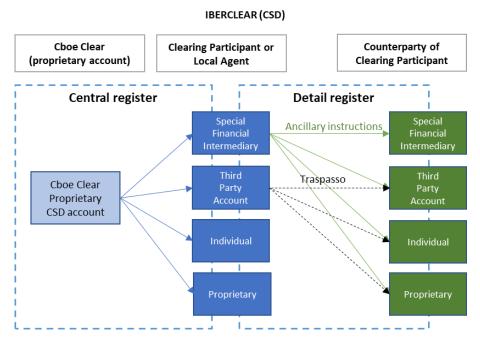## 1.1 Spanish Market introduction

The Spanish Securities Depository, Iberclear, maintains a two level registration system:-

- The <u>Central Register</u>, maintained by Iberclear, which records the aggregate security balances in Iberclear, registering the nominal amount of equities.

- The <u>Detailed Register</u>, managed by participant entities entrusted to manage the accounting of the individual accounts in reference to each security type. It will be identified by the CCV (unique account number reference). Entities must keep the detailed registry up to date at all times by entering every single trade performed by the entities with third parties.

The Central and Detailed Register are maintained in the Post Trading Interface ("PTI"). Within the PTI, individual securities transactions are recorded to support the audit trail of these transactions from trading to settlement and registration. The Detailed Register contains - for each account - the account-owner and the balance of each security held in the account.
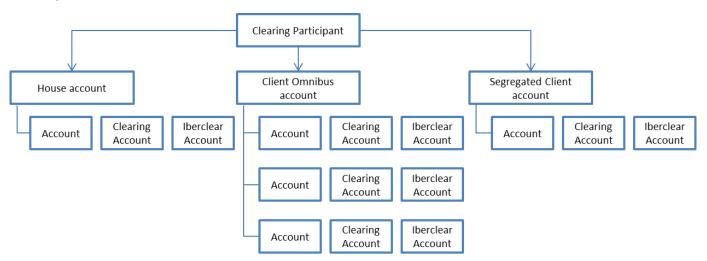
Iberclear operates the PTI and is responsible for the completeness and accuracy of the data. Iberclear participants must ensure that all transactions, not cleared by a CCP, are entered into the PTI. As a CCP and an Iberclear participant, Cboe Clear Europe will be required to enter all gross executions it has cleared into the PTI and this data will include the party for the account of which the transaction was effected (the "owner" of the transaction). This role implies that Cboe Clear Europe is (i) responsible for the reporting of all gross transactions it has cleared and which settle in an Iberclear securities account and (ii) must support the operational processes relating to the four different types of accounts in Iberclear's Central Register:-

- Proprietary account (P) - balances of the CSD Participant.

- Third Party account (TPA), balances that CSD Participants keep for third parties.

- Individual account (I) - balances in the name of a single owner.

- Special Financial Intermediary (SFI) account - only to be used for client transactions pending further allocation.



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The graph below shows Cboe Clear's account structure, where positions are maintained in Cboe Clear Europe Client Position accounts (House, Client Omnibus and Individual Client). Trades will be registered in the accounts underlying the Client Position accounts. These accounts will be linked to Clearing Accounts and, in turn, the Clearing Accounts will be linked to Iberclear accounts and account types.

## 1.2 Cboe Clear Europe services

### 1.2.1 Account structure

All gross executions are booked and netted into the Position Accounts with Cboe Clear Europe based on the information contained in the execution data. Each execution is allocated to a Position Account based on the Clearing Participant identifier, Trading Participant identifier, Client / House qualifier, Agency / Principal qualifier or Account data contained in the execution message. Cboe Clear Europe is able to support multiple netting combinations for Clearing Participants and Clearing Participants may choose multiple sub accounts of Position Accounts for netting purposes.

For administrative purposes, each Position Account or sub account of the Position Account is referred to as a 'Clearing Account', each of which is linked to an Iberclear CSD account type and T2S securities account. The Clearing Account is the combination of the Client Number and the Account Number as stated in Record Code 450 of the Client Information File (CIF).

### 1.2.2 Execution Realignment service (ERG)

Participants are not always able to correctly determine, at order entry, on which Clearing Account the executions should settle. In the event that executions are booked in a Clearing Account, linked to an account in the CSD on which the settlement should NOT take place, Cboe Clear Europe will support the transfer or realignment of the executions and will generate settlement instructions for the required Clearing Accounts. This is called the execution realignment service.

Clearing Participants may instruct Cboe Clear Europe to realign executions by providing a file (ERG) detailing the gross executions to be re-aligned. Each gross execution in the file should contain the sub account (account number) the execution should be booked on. Clearing Participants may only realign executions between their own Clearing Accounts within a Position Account.

Cboe Clear Europe will process the realignment file immediately upon receipt during the ERG processing window. The gross executions will be cancelled in the original Clearing Account and will be added to the new Clearing Account in accordance with the information provided in the file. Affected settlement instructions will be deleted and new ones created, which will be reflected in the intraday and end-of-day CIF file. Cboe Clear's deadline for the receipt of the realignment file is 14.30 CET on both Trade Date and Intended Settlement Day – 1.

Cboe Clear Europe will update the gross execution data with the corrected accounts in the PTI once the deadline for ownership reporting has passed (see below) which will also enable Clearing Participant's or their settlement agent to download the data from the PTI.

For the specifications of the ERG file, we would refer you to Chapter 2.3 – Execution Realignment.

### 1.2.3 Ownership Reporting service (ORG, ORP, HTITU03)

Cboe Clear Europe must report the owner reference of each transaction if the transaction settles in an Individual, Proprietary or Third Party account. For transactions that settle in a SFI account, no ownership reference needs to be provided by Cboe Clear. Four different types of ownership reporting are distinguished. These are defined as follows:

**1. Single Ownership**

The total number of securities of the execution belongs to one single owner, having a unique Owner Reference.

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**2. Multi-ownership:**

Multiple owners own a part of the total number of securities of a single execution, whereby the ownership is divided based on number of securities.

For example: total number of shares in the execution is 1,000 -> owner A owns 500 shares, owner B owns 250 shares, owner C owns 250 shares. Each owner has a unique Owner Reference.

**3. Co-ownership:**

Multiple owners own the total number of securities of an execution.

For example: total number of securities is 1000 -> owner A, B and C own 1000 securities together. The Owner Reference is the same for each individual co-owner; however the ownership details differ per co-owner. In the event of co-ownership, the ownership details of all co-owners will be allocated to a specific trade and reported to the PTI.

**4. Percentage Ownership:**

Multiple owners own different parts of the total number of securities of an execution, whereby the ownership is divided based on percentages.

For example: total number shares in the execution is 1,000 -> owner A owns 33,33%, owner B owns 66,67%. Each owner has a unique Owner Reference.

Percentage Ownership is only supported using the HTITU03 ownership reporting service.

Cboe Clear Europe has introduced an extensive set of new services to fulfil these ownership reporting obligations. Cboe Clear Europe requires its Clearing Participants to provide ownership data in order to fulfil its obligations in respect of the PTI.

### 1.2.3.1   ORG, ORP

For each Clearing Account maintained in its books, a default owner reference (BIC code) must be provided and that owner reference will be used in  the PTI for all executions booked in that account.  Cboe Clear Europe will use that default owner reference unless the Clearing Participant has informed Cboe Clear Europe that a different owner reference is to be reported by using the Ownership reporting services detailed below.

For transactions reported to a Third Party Account entered in the PTI during Trade Date, Cboe Clear Europe will add owner references to these gross executions on Settlement Date - 1. The owner references must be provided by the Clearing Participants, and Cboe Clear's deadline for the receipt of these owner references is Settlement Date - 1 at 15:45 CET.

In the event that a Clearing Participant wishes to use an owner reference other than the default, it can advise Cboe Clear Europe by either:

- An Ownership Reference file with gross executions (ORG). Each gross execution should contain the owner reference that Cboe Clear Europe should enter into the PTI, or
- An Ownership Reference file with positions (ORP) indicating the owner reference to be added for each position. Cboe Clear Europe will add owner references to the gross executions in the PTI in accordance with the positions contained in the file on the basis of the allocation method provided by the Clearing Participant.

Owner reference changes provided by an ORG or ORP will be processed once the execution realignments have been processed as the realignment will change the position in the affected accounts.

For the specifications of the ORG and ORP file, we would refer you to Chapter 2.4 – Ownership Reporting.

### 1.2.3.2   Correction Ownership (CRG, CRP)

Once the deadline of Ownership Reporting is passed (Settlement Date - 1 at 15:45 CET) and an amendment to the ownership needs to be made, a Clearing Participant can advise Cboe Clear Europe by either:-

- A Correction Ownership file with gross executions (CRG). Each gross execution should contain the owner reference that Cboe Clear Europe should enter into the PTI, or
- A Correction Ownership file with positions (CRP) indicating the owner reference to be added for each position. Cboe Clear Europe will add owner references to the gross executions in the PTI in accordance with the positions contained in the file on the basis of the allocation method provided by the Clearing Participant.

Cboe Clear Europe will only process this report as from Settlement Date. Owner References can be amended as long as transactions:

i)    Have a 'Settled' status and are in the period of Intended Settlement Date + 5. For trades which settled after Intended Settlement Date, the allocations of the trades must be cancelled in the PTI

ii)   have a 'Pending' status on Intended Settlement Date. The latest opportunity to correct ownership for pending transactions, by providing CRG and CRP files, is 15:10 CET on Intended Settlement Date. Cboe Clear Europe will amend the Owner Reference in the PTI.

Owner References of Failed transactions (not settled on Intended Settlement Date at 16:00 CET) cannot be corrected.

For the specification of the CRG file, we would refer you to Chapter 2.4.3 - Correction ownership.

### 1.2.3.3   Owner Reference Static data set-up file (ORS)

As a CCP connected to Iberclear and PTI, Cboe Clear Europe must report the ownership details of each execution it processes and settles against a Third Party Account (TPA). In the ORG / ORP file, Clearing Participants should only report the owner reference to Cboe Clear. Cboe Clear Europe will then enrich the owner reference with additional ownership details in order to comply with the reporting requirements of the PTI and send owner reference and complete ownership details for each execution to the PTI.

Initially Clearing participants must provide Cboe Clear Europe with Ownership Reference and Ownership details by completing the Owner Reference Static data set up file (ORS Excel file). It is the responsibility of the Clearing Participant (potentially supported by its local settlement agent) to keep Cboe Clear's records and static data up to date, whereby new, additional or amended Ownership References and Ownership details need to be completed and distributed via a (delta) ORS file.

Please see 2.4.1 for the specifications of the ORS file.

### 1.2.3.4   HTITU03 Ownership File

The HTITU03 Ownership File is the file Iberclear participants may use to fulfil their reporting obligation towards the PTI. Instead of the provision of ORG, ORP, CRG or CRP, Clearing Participants can opt to provide a HTITU03 Ownership File to Cboe Clear Europe with the ownership information of all executions for which ownership reporting is required. This HTITU03 Ownership File would be provided by the Clearing Participant to Cboe Clear, which in turn will distribute the Clearing Participants' HTITU03 Ownership File to the PTI. After receipt

the PTI will process the file and will send a result file to Cboe Clear. Cboe Clear Europe will make the HTITU03 result file available to the Clearing Participant to download from Cboe Clears' sFTP server as soon as possible.

Cboe Clear Europe requires Clearing Participants or their Settlement Agents to submit the ownership reporting via the HTITU03 Ownership File for all executions and / or partial executions, which require ownership reporting. Clearing Participants using the ERG process will also need to include the new ownership references in their HTITU03 Ownership File for transactions created using this ERG process.

HTITU03 Ownership Files can be submitted to Cboe Clear Europe on all Clearing Days between 07:00 - 19:30 CET, however all executions should be reported on Trade Date +1 (ISD-1) prior to 16:30 CET. This deadline is mandated by the PTI to Cboe Clear. Also in case of rejected HTITU03 records the Clearing Participant is required to ensure ownership is reported before this deadline, by the provision of another HTITU03 Ownership File. Clearing Participants will be responsible for the content and the file format of the HTITU03 Ownership File.

For the specification of the HTITU03 Ownership File, we would refer to the CCP Connectivity Requirements of the PTI or alternatively contact cm.cboecleareu@cboe.com.

## 1.2.4   Hold and Release service

**Hold and release on Intended Settlement date – 1 (ISD-1)**

Iberclear requires CCPs to submit already matched settlement instructions in the settlement platform on behalf of their Clearing Participants. Clearing Participants should therefore not instruct their settlement agents to forward instructions to the settlement platform. Clearing Participants will be obliged under Cboe Clear's rules to allow Cboe Clear Europe to send already matched instructions on their behalf to the T2S settlement platform.

The initial status of a settlement instruction generated by Cboe Clear Europe is "released". In order to manage the settlement process, Cboe Clear Europe offers Clearing Participants' settlement agents the ability to put individual gross sell executions that settle on a Third Party Account on "Hold" by sending a file (HRG) containing the gross execution references and the requested status change prior to 19:00 CET on Settlement Date - 1.

In addition to the "Hold" request by using the HRG file, Cboe Clear Europe offers the option "hold by default" for Clearing Participants delivery obligations that settle on a Third Party Account. The initial status of an instruction will be "Hold" and only directional netting will be available for TPA accounts that are set up for standard "Hold". Clearing Participants and settlement agents that have opted for the "hold by default" option are not allowed to send hold requests to Cboe Clear. To allow settlement during the T2S Night Time Settlement, a release window is available on ISD - 1 for those parties that have opted for the "hold by default" service.

It is possible to request to hold or release parts of an individual gross sell execution. After processing the hold or release requests, Cboe Clear Europe will net the gross executions prior to forwarding the resulting settlement instructions to T2S settlement platform. A hold or subsequent release request may create a "strange net" or turn a "strange net" into an "ordinary net". Clearing Participants are requested to either prevent strange nets from occurring by requesting Cboe Clear Europe to aggregate rather than fully net, or to ensure they support strange nets.

Hold and release requests will be processed according to the following process windows on ISD - 1:-

| Window | Timing CET |
|---|---|
| Release | 17:30 – 18:45 |
| Hold | < 19:00 |

Release requests received for processing on ISD -1 must be sent after 17:00 CET on ISD -1 and will be processed from 17:30 CET until 18:45 on ISD - 1. Release requests received before 17:00 on ISD - 1 will be rejected. Hold

requests can be delivered before the processing window on ISD - 1 starts, but hold requests delivered after 19:00 CET on ISD - 1 will be rejected.

After hold and release requests have been processed, Cboe Clear Europe will create settlement instructions and send these to the T2S platform prior to 20:00 CET, which is the final deadline for T2S to accept settlement instructions for processing during the first night time cycle.

**Release from Intended Settlement date (ISD)**
From ISD, Release requests will be processed during 6 "release windows", as follows:-

| Release window | Timing CET |
|:---:|:---:|
| 1 | 07:30 – 08:00 |
| 2 | 09:00 – 09:30 |
| 3 | 11:00 – 11:30 |
| 4 | 13:00 – 13:30 |
| 5 | 14:45 – 15:15 |
| 6 | 16:30 – 17:00 |

During these windows, Cboe Clear Europe will cancel the held settlement instruction in T2S, create a new settlement instruction(s) according to the release request and send this settlement instruction with correct status to the T2S platform for settlement. Partial release is also supported and Cboe Clear Europe will create two new settlement instructions with the appropriate statuses according to the release request and send these settlement instructions to the T2S platform for settlement.

For the specifications of the HRG file, we would refer you to Chapter 2.5 – Hold and Release functionality.

## 1.2.5 Processing of corporate actions on flow

### 1.2.5.1 Market Claims
Corporate actions are managed by Iberclear and the proceeds from corporate actions will settle in the T2S platform. Cboe Clear Europe will allow Iberclear to adjust settlement instructions in T2S that are entitled to the proceeds of a corporate action. Market claims will be generated for matched released and held settlement instructions and are generated with the same conditions of the underlying settlement instructions, including the hold and release status.

**Release of held market claim**

Iberclear creates market claims by submitting two separate legs in T2S and Cboe Clear's counterparties must release their own leg of the held market claim in T2S. Cboe Clear Europe releases its own leg of all held market claims upon the creation of the market claim in T2S. Partial release of market claims is not supported by Cboe Clear.

As market claims settle separately from the underlying settlement instructions, the underlying settlement instruction will be released by Cboe Clear Europe according to the release requests received.

**Release of entitled settlement instructions on record date**

Release requests for settlement instructions that would generate market claims on record date will be processed as normal between and including the first and fifth release windows. Release requests for settlement instructions during the sixth release window will be rejected and a new release request should be submitted to Cboe Clear Europe on the next business day. The rejected release request can be recognized by rejection code 19 (Not processed, eligible for Corporate Action) in the HRG result file.

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**Release of underlying settlement instructions post record date**

As market claims are generated on held settlement instructions and to avoid duplication of the already generated market claims during the release process, Cboe Clear Europe will use the opt out indicator for the underlying settlement instructions that are released post record date.

## 1.2.5.2   Transformations

Transformations of entitled matched pending settlement instruction are managed by Iberclear. Cboe Clear Europe allows Iberclear to transform released and held settlement instructions entitled for a transformation. Iberclear will cancel the entitled settlement instruction and replace the cancelled settlement instructions with a new settlement instruction according to the terms of the transformation. The same conditions will be applied by Iberclear as the original settlement instruction, including the hold and release status.

**Release of held transformed settlement instructions**

As Iberclear creates transformations by submitting two separate legs in T2S, Cboe Clear's counterparties must release their own leg of the transformation in T2S. Cboe Clear Europe releases the transformed held settlement instructions following the creation of transformation in T2S. Partial release of transformed settlement instructions is not available.

**Release of entitled settlement instructions on record date**

Release requests for settlement instructions that would generate a transformation on record date will be processed as normal between and including the first and fifth release windows. Release requests for settlement instructions during the sixth release window will be rejected. The rejected release request can be recognized by rejection code 19 (Not processed, eligible for Corporate Action) in the HRG result file. The transformed held settlement instruction must be released by the settlement agent in T2S.

## 1.2.6   Processing of Settlement instructions

## 1.2.6.1   Settlement process

Settlement instructions for the Spanish market will be sent to T2S on Settlement Date – 1 rather than Trade Date. Settlement instructions will only be sent to T2S once the processing of the Execution Re-alignment files, Ownership Reporting and Hold and Release files are completed on Settlement Date - 1 prior to 20:00 CET. In addition, Cboe Clear Europe is able to send 'Copy-POA' messages to the Clearing Participant's settlement agent, which will contain NINX in field 70E, informing the agent that it does not need to send a settlement instruction to settlement platform. All instructions, whether the status is 'hold' or 'release' will be sent to T2S with the appropriate statuses, providing CSD participants an overview of all outstanding settlements.

On ISD - 1 after hold and ISD - 1 release requests have been processed, Cboe Clear Europe will net the gross executions according to the Clearing Participant's netting preferences and forward the resulting settlement instructions to the T2S settlement platform. Cboe Clear Europe will submit both sides of the settlement instruction already matched in the T2S settlement platform. All settlement instructions generated by Cboe Clear Europe have the partial indicator PARQ which allows the Clearing Participant and Cboe Clear Europe to benefit from partial settlement during the T2S partial windows.

As a result of the netting process applied by Cboe Clear, settlement instructions with zero quantity and zero cash balance could be created. Cboe Clear Europe will not  send these settlement instructions to the T2S settlement platform and considers these settled on intended settlement date. Cboe Clear Europe will continue to report these settlement instructions to the PTI.

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![Cboe Clear]

## 1.2.6.2   Cboe Clear Europe reference

The nine-digit settlement reference which Cboe Clear Europe reports in the CIF record code 450 for settlements, and in record code 410 for transactions, will be reported under TAG 159.

In the settlement instructions (ISO 20022), Cboe Clear Europe quotes this reference in the Transaction Identification field (TxId) to the T2S platform. The Transaction Identification begins with '1', followed by the <trade date YYMMDD>, followed by the Cboe Clear Europe 9-digit reference.

For example, trade date YYMMDD and settlement reference 123456789:-

> **<TxId>1YYMMDD123456789**

After Cboe Clear Europe submits a settlement instruction on behalf of the Clearing Participants' settlement agent to the T2S platform, T2S will acknowledge the settlement instruction via a sese.024 and confirm the settlement of the instruction via a sese.025. T2S quotes the Cboe Clear Europe reference in the Processor Transaction Identification field (PrcrTxId) of the copy status messages (sese.024) and copy settlement confirmation (sese.025), as follows:-

> **<PrcrTxId>1YYMMDD123456789**

For the CSD POA settlement model, the Cboe Clear Europe reference is reflected in the different reports and messages, as follows:-

|  | EuroCCP CIF | EuroCCP copy POA message | sese.023 | Copy sese.023 | Copy sese.024 | Copy sese.025 |
|---|---|---|---|---|---|---|
| **EuroCCP Settlement reference** | TAG 159 settlement instruction Reference of 450 record | 20C::SEME// | Transaction Identification (TxId) | Transaction Identification (TxId) | Processor Transaction Identification (PrcrTxId)[1] | Processor Transaction Identification (PrcrTxId)[1] |
| **Example** | 123456789 | 123456789 | 1YYMMDD123456789 | 1YYMMDD123456789 | 1YYMMDD123456789 | 1YYMMDD123456789 |

## 1.2.6.3   Place of Clearing, Broker Identifier and CCV number

Cboe Clear Europe will continue to communicate the place of clearing and broker identifier in its settlement instructions submitted in T2S as follows:-

Place of Clearing:-

```
<TradDtls>
   <PlcOfClr>
      <AnyBic>EMCFNL2AXXX</AnyBic>
   </ PlcOfClr >
```

Broker Identifier:-

```
<OthrBizPties>
   <Brkr>
      <Id>
         <AnyBIC>BICBROKERXX</AnyBIC>
      </Id>
      <Prcgld>1234567890123456</Prcgld>
   </Brkr>
</OthrBizPties>
```

Cboe Clear Europe will continue to report the CCV number in its settlement instructions to T2S. This use of the number is optional and  will be communicated in Party 2 as follows:-

```
<Pty2>
   <Id>
```

---

```
      <AnyBIC>BICPARTY2XX</AnyBIC>
    </Id>
  <SfkpgAcct>
    <ID>0144000000000000000000000</ID>
  </SfkpgAcct>
</Pty2>
```

## 1.2.7    Cboe Clear Europe reporting

**Post Trade Interface (PTI)**

Cboe Clear Europe will send all gross executions following acceptance to the PTI during the day. In the unlikely event of a delay in the end of day processing due to platform issues, it is possible that a limited number of trades will be available in the PTI the next business day rather than on trade date. The Cboe Clear Europe CIF will contain all gross executions executed during that specific business day.

**Clearing Information File (CIF)**

All gross executions and settlement instructions are reported to Clearing Participants in the Client Information File (CIF), which each Clearing Participant receives at the end of the day. Intraday CIFs are also available on request. The end-of-day CIF will include the Cboe Clear Europe unsettled reference, assigned intraday, in the execution details and in the settlement instruction details.

**Spanish Transactions and Settlement file (STS)**

As the transaction and settlement reporting of the Spanish market requires additional information and the Settlement Agents in Spain need to be able to process this additional information, Cboe Clear Europe offers STS-File, containing details of the Spanish Transactions and Settlements. Cboe Clear's Clearing Participants and / or their settlement agent, who may be the Iberclear participant concerned, will receive status information via the STS-file. This file is made available to monitor the settlement process. The STS-file contains only the Spanish gross trades and amended settlement instructions. Delivery is scheduled at approx. 14:45, 16:00 and 20:00 CET. The distribution is via sFTP or via email to those email addresses specified by the Clearing Participant, which may include addresses of its settlement agent.  Further details are provided in this document.

For the specifications of the STS file, we would refer you to Chapter 2.8 – STS File specifications.

## 1.2.8    Processing timelines

The following timetable applies and we would refer you to the Annex for an overview of a Cboe Clear Europe business day in T2S for the Spanish market.

1.  Gross executions sent to the PTI intraday on T.
2.  HTIT03 Ownership Files processed on all Clearing Days between 07:00 - 19:30 CET.
3.  Execution realignment files processed between 08:00 - 14:30 CET and 18:50 and 19:10 CET on T.
4.  Execution realignment files processed between 08:00 and 14:30 CET on SD-1.
5.  Creation and distribution of STS-file (Spanish Transactions and Settlements) approx. 14:45 CET.
6.  Ownership reporting files processed from 14:45 CET until 15:45 CET on SD-1.
7.  Creation and distribution of updated STS-file approx. 16.00 CET.
8.  Hold requests per gross trade processed from 16:00 CET until 19:00 CET on SD-1.
9.  ISD-1 release per gross trade received and processed from 17:30 until 18:45 (only for trades that have been put on hold by default).
10. Re-netting of affected settlement instructions and sending netted Hold and Released settlement instructions to T2S prior to 20:00 CET on SD-1.
11. Creation and distribution of updated STS-file EOD (including gross executions with trade date 'today') approximately 20:00 CET.

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12. Release requests per gross 'Hold' trade processed as of Settlement Date between 07: 30 and 17:00 CET during 6 release windows.
13. Correction Ownership files processed from SD until SD+5.
14. Re-netting of 'Released' gross trades into settlement instructions.

## 2. Specifications

### 2.1 File exchange

Information can be provided to Cboe Clear Europe via files by uploading them to Cboe Clear's sFTP server. Cboe Clear Europe will create files showing the results (result files), which will be made available for downloading from Cboe Clear's sFTP server.

Exchanging files with Cboe Clear Europe is arranged through sFTP secure file transfer protocol. Cboe Clear Europe offers external parties the possibility to login to Cboe Clear Europe sFTP server through the Internet. By connecting to the server using a client specific sFTP security key and logging in using a client specific username, clients enter their own account in the Cboe Clear Europe sFTP server. Within the home directory of the client account, the following two sub-directories exist:

- The "upload" directory – this directory is used for uploading files that need to be processed by Cboe Clear.
- The "download" directory – Cboe Clear Europe places files to be downloaded by clients in this directory. All files distributed to Cboe Clear Europe should be zipped before uploading. Cboe Clear Europe will also zip all files before making them available for downloading from the download directory.

**sFTP production and UAT**

The production and UAT environments are implemented on the same technical infrastructure and systems. Separate sFTP security keys are used for production and UAT environments. Clients log in to their production or UAT sFTP accounts by using their corresponding production - or UAT sFTP username.

For those services described in 1.2.1, 1.2.2, 1.2.3 and 5, clients send in their instruction files by logging in to Cboe Clear Europe sFTP server and uploading the files in the client specific upload directory. Cboe Clear Europe detects the incoming files and starts processing them within the processing window as soon as the upload process is complete. After processing, Cboe Clear Europe prepares the 'result files' and makes them available for downloading by placing them in the client specific download directory.

**Archiving and resends**

Files that are prepared by Cboe Clear Europe for downloading by clients will be available in the download directory until the file has been downloaded by the client. After downloading by the client, the files will be archived.

In case a file has not been downloaded after 7 calendar days, the file will also be archived. Archived files can be made available for (re-)downloading after submitting a request to Cboe Clear Europe Client Management at cm.cboecleareu@cboe.com.

All files that are delivered to Cboe Clear Europe will be moved to an archive after processing.

**Technical setup and information**

To setup the sFTP connection to Cboe Clear Europe sFTP production and UAT environments, the following needs to be arranged (including information to be exchanged).

- Clients will have to hand-over their public sFTP security keys to Cboe Clear.
- Cboe Clear Europe hands over the client specific usernames for production and UAT to the client.
- Cboe Clear Europe hands over the primary and secondary internet IP addresses of Cboe Clear Europe sFTP server to the client.

- Client adds the IP addresses of Cboe Clear Europe sFTP server as a "trusted address" into their security systems (e.g. firewalls) to allow communication.
- Clients hands over the public IP addresses of their sFTP servers to Cboe Clear.
- Cboe Clear Europe adds the IP addresses of the client sFTP servers to security systems to allow communication.

Note: Cboe Clear Europe will contact the Clearing Participants and / or settlement agents to bilaterally agree the set-up forms.

## 2.2  File format

In the following paragraphs, when referring to the names of the files, the 'file name' is the full name, consisting of a 'name' and an 'extension'.

Example:        ERG99991130000.txt is the file name

ERG99991130000 is the name and .txt is the extension

### 2.2.1  HTITU03 Ownership File

The following applies to HTITU03 Ownership files to be delivered to Cboe Clear:

1. File format - files should be in generic data format (.dat) (and must have the <u>lower case</u> .dat extension).
2. Naming convention. The format of the name is: EEEE_EURC_PTIR_HTI3CCP_YYYYMMDD_HHMMSSmm where:

    a. EEEE are 4 characters indicating the environment the file refers to:
        i. PROD: Production environment;
        ii. FOR2: UAT environment.
    b. YYYYMMDD are 8 digits indicating the processing year, month and day;
    c. HHMMSSmm are 8 digits indicating the processing hour, minute, second and millisecond;

    Example:

    File name: PROD_EURC_PTIR_HTI3CCP_20171013_15531241.dat

        a. Environment: Production environment
        b. Date is 13 October
        c. Time is 15:53 and 12.41 seconds

The result files delivered by Cboe Clear Europe will follow the same standards as detailed above, though the sender (EURC) and receiver (PTIR) are reversed. The format of the name of the result file is:
EEEE_**PTIR_EURC** _HTI3CCP_YYYYMMDD_HHMMSSmm

### 2.2.2 ORS file

The following applies to ORS files to be delivered to Cboe Clear:

1. File format - files should be in excel format (.xls) (and must have the <u>lower case</u> .xls extension).
2. Naming convention. The format of the name is: ORScpnrmmddiii where:

    a. ORS are 3 characters referring to Ownership Reference Static (ORS) data;
    b. cpnr are 4 digits indicating the Cboe Clear Europe Clearing Participant number;
    c. mmdd are 4 digits indicating the processing date month and day;
    d. iii is a 3-digit sequence number indicating the version of the file. Each first file for the specified service, Clearing Participant number and trade date should have sequence number '000'[1].

    Example:

    File name: ORS00990105000.xls

    d. Service: ORS
    e. Client number is: 0099
    f. Date is 5 January
    g. Sequence number is: 000

### 2.2.3 All other files

The following applies to ERG, ORG, ORP, HRG, CRG and CRP files to be delivered to Cboe Clear:

1. File format - all files should be in text format (.txt) (and must have the <u>lower case</u> .txt extension).
2. Record length - all files should only contain records of a fixed length of 256 characters.
3. Naming convention. The format of the name is: TTTnnnnmmddiii where:

    a. TTT are 3 characters indicating the service the file refers to:
        i. ERG: execution re-alignment of gross executions;
        ii. ORG: ownership reporting of gross executions;
        iii. ORP: ownership reporting by position;
        iv. HRG: hold and release of gross executions;
        v. CRG: Correction ownership reporting of gross executions;
        vi. CRP: Correction ownership reporting by position.
    b. nnnn are 4 digits indicating the Cboe Clear Europe client number;
    c. mmdd are 4 digits indicating the processing date month and day;
    d. iii is a 3-digit sequence number indicating the version of the file. Each first file for the specified service, client number and trade date should have sequence number '000'. Files with a higher version number can be provided to correct data provided in earlier files. Only files with a consecutive version number will be processed[2].

    Example:

    File name: ERG99991130000.txt

    a. Service: ERG
    b. Client number is: 9999

---

[1] Until further notice the sequence number of the ORS files will not be validated.

[2] In case a file is delivered with a sequence number not starting with 000 or with a consecutive sequence number the next file should have the consecutive sequence number in line with the rejected file.

     c. Date is 30 November

     d. Sequence number is: 000

4. File footer / Trailer. Each file should contain the following trailer record:

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 4 | Originator id | N(4) | Cboe Clear Europe Client number to indicate the Clearing Participant to which the file applies |
| 5 | 12 | Creation date | N(8) | Format YYYYMMDD |
| 13 | 18 | Creation time (CET) | N(6) | Format HHMMSS |
| 19 | 28 | Number of records | N(10) | Total number of records in the file (excl. trailer record) |
| 29 | 256 | Filler | | Empty |

5. Files must be zipped before uploaded to Cboe Clear's server for processing, and contain the same name as the uncompressed files, whereby the zipped file has a lower case .zip extension.
Example:
File name after zipping at client side: ERG99991130000.zip

6. Cboe Clear Europe will only process files if both the creation date and processing date are on the same day.

The result files delivered by Cboe Clear Europe will follow the same standards as detailed above with the following exceptions:

1. Naming convention – the format of the name is: TTTECCPnnnnmmddiii where ECCP are 4 characters identifying Cboe Clear Europe as the originator of the file;
   o ORP service will be confirmed as ORG Result file.
   Example:

     File name: ORGECCP99991130000.txt

     a. Service: ORG
   - Sender: ECCP
     b. Client number is: 9999
     c. Processing date is 30 November
     d. Sequence number is: 000

2. File footer/ Trailer. Each file contains 'ECCP' as the 4 character identification of the originator of the file in the first 4 characters in the trailer record. Files are zipped, before made available for download in the client specific download folder. The compressed files will have the same name as the uncompressed files and have the lower case .zip extension

Example: File name: ORGECCP99001130000.zip

## 2.3 Execution Re-alignment

### 2.3.1 ERG – Execution Re-alignment of Gross executions

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 8 | Trade date | N(8) | Trade date (YYYYMMDD) |
| 9 | 28 | Execution reference | X(20) | The unique identifier of an execution as assigned by the platform and sent to Cboe Clear. This reference is reported to Clearing Participants in TAG 25 of the 409 and 410 record code in the CIF. First character should be 'B' or 'S for normal trades. The 'B' or 'S' should be preceded by a sequence number in case of corrected trades |
| 29 | 32 | MIC | X(4) | MIC of the venue where the transaction has been concluded |
| 33 | 36 | Account Number (FROM) | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) of the Cboe Clear Europe Client FROM which the gross execution must be transferred |
| 37 | 40 | Account Number (TO) | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) of the Cboe Clear Europe Client TO which the gross execution must be transferred |
| 41 | 50 | Number of Shares | N(10) | Quantity of shares to be assigned to Account Number (TO) |
| 51 | 256 | Filler | | Empty |

Notes:

1. Gross executions can be realigned in parts (optional)
2. The combination of 'trade date', Execution reference', 'Account Number (FROM)' and 'MIC' uniquely identifies the gross execution.

---

## 2.4 Ownership Reporting

### 2.4.1 ORG – Ownership Reporting of Gross executions

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 8 | Trade date | N(8) | Trade date (YYYYMMDD) |
| 9 | 28 | Execution reference | X(20) | The unique identifier of an execution as assigned by the platform and sent to Cboe Clear. This reference is reported to Clearing Participants in TAG 25 of the 409 and 410 record code in the CIF. First character should be 'B' or 'S' for normal trades. The 'B' or 'S' should be preceded by a sequence number in case of corrected trades |
| 29 | 32 | MIC | X(4) | MIC of the venue where the transaction has been concluded |
| 33 | 36 | Account Number | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) on which the gross execution has been booked |
| 37 | 56 | Owner reference (FROM) | X(20) | Owner reference as specified in the STS file ** Note, this field should only be used in case of corrections on previous Owner Reporting files |
| 57 | 76 | Owner reference (TO) | X(20) | Owner reference |
| 77 | 86 | Number of Shares | N(10) | Quantity of shares to be assigned to the owner specified in Owner Reference |
| 87 | 256 | Filler | | Empty |

Notes:

1. Multiple records with the same execution reference should be used to specify the owner of each part of the securities in the gross execution if securities in that single gross execution belong to more than one owner. After processing a record to change owner reference for a part of the number of shares in the gross execution only, Cboe Clear Europe will maintain a record of the number of shares that can still change owner reference as a result of subsequent requests.
2. The combination of 'Trade Date', 'Execution reference', 'Account Number', 'Owner reference FROM' and 'MIC' uniquely identify the gross execution.
3. The owner reference must be a valid owner reference in the Cboe Clear Europe Ownership table. Cboe Clear Europe can only successfully process owner references that it has been informed of beforehand.

## 2.4.2 ORP – Ownership Reporting by Position

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 4 | Account Number | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) on which the gross execution has been booked |
| 5 | 12 | Trade date | N(8) | Date of the conclusion of the trade  (YYYYMMDD) |
| 13 | 13 | D/R | X(1) | D=Delivery, R=Receipt |
| 14 | 25 | ISIN | X(12) | International Securities Identification Number |
| 26 | 37 | Number of shares | N(12) | Quantity of shares |
| 38 | 57 | Owner reference (FROM) | X(20) | Owner reference as specified in the STS file ** Note, this field should only be used in case of corrections on previous Owner Reporting files |
| 58 | 77 | Owner reference TO | X(20) | Owner reference |
| 78 | 256 | Filler | | Empty |

Notes:

1. The Owner reference must be a valid Owner reference in the Cboe Clear Europe Ownership table. Cboe Clear Europe can only successfully process Owner references that it has been informed about beforehand.
2. The maximum number of shares (N(12)) is larger than the maximum number of shares in a gross execution (N(10)) as positions can be larger than execution sizes.

### 2.4.3 CRG – Correction ownership Reporting of Gross executions – Text (.txt)

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 8 | Trade date | N(8) | Trade date (YYYYMMDD) |
| 9 | 28 | Execution reference | X(20) | The unique identifier of an execution as assigned by the platform and sent to Cboe Clear. This reference is reported to Clearing Participants in TAG 25 of the 409 and 410 record code in the CIF. First character should be 'B' or 'S for normal trades. The 'B' or 'S' should be preceded by a sequence number in case of corrected trades |
| 29 | 32 | MIC | X(4) | MIC of the venue where the transaction has been concluded |
| 33 | 36 | Account Number | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) on which the gross execution has been booked |
| 37 | 56 | Owner reference (FROM) | N(20) | Owner reference as specified in the STS file |
| 57 | 76 | Owner reference (TO) | N(20) | Owner reference |
| 77 | 86 | Number of Shares | N(10) | Quantity of shares to be assigned to the owner specified in Owner Reference |
| 87 | 256 | Filler | | Empty |

Notes:

1. The combination of 'Trade Date', 'Execution reference', 'Account Number', 'Owner reference FROM' and 'MIC' uniquely identify the gross execution.
2. The owner reference must be a valid owner reference in the Cboe Clear Europe Ownership table. Cboe Clear Europe can only successfully process owner references that it has been informed of beforehand.
3. Corrections of already 'settled' executions will not be confirmed in the STS files, whereas corrections of pending executions will be reported in the STS files. If a Clearing Participant requested Cboe Clear Europe to no longer validate on the Ownership reference in HRG records, the Owner Reference will be included until and including ISD-1 17:00 CET (2nd intra-day STS file). Hereafter the Owner reference is no longer included in tag 192 of the STS file.

_____

### 2.4.4 CRP – Correction ownership Reporting of Positions – Text (.txt)

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 4 | Account Number | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) on which the gross execution has been booked |
| 5 | 12 | Trade date | N(8) | Date of he conclusion of the trade (YYYYMMDD) |
| 13 | 13 | D/R | X(1) | D=Delivery, R=Receipt |
| 14 | 25 | ISIN | X(12) | International Securities Identification Number |
| 26 | 37 | Number of shares | N(12) | Quantity of shares |
| 38 | 57 | Owner reference (FROM) | X(20) | Owner reference as specified in the STS file |
| 58 | 77 | Owner reference (TO) | X(20) | Owner reference |
| 78 | 256 | Filler | | Empty |

Notes:

1. The Owner reference must be a valid Owner reference in the Cboe Clear Europe Ownership table. Cboe Clear Europe can only successfully process Owner reference that it has been informed about beforehand.
2. The maximum number of shares (N(12)) is larger than the maximum number of shares in a gross execution (N(10)) as positions can be larger than execution sizes.
3. Corrections of already 'settled' executions will not be confirmed in the STS files, whereas corrections of pending executions will be reported in the STS files. If a Clearing Participant requested Cboe Clear Europe to no longer validate on the Ownership reference in HRG records, the Owner Reference will be included until and including ISD-1 17:00 CET (2nd intra-day STS file). Hereafter the Owner reference is no longer included in tag 192 of the STS file.

**File format – Excel files**

The zipped file should be submitted via email to the Cboe Clear Europe Client Management team, cm.cboecleareu@cboe.com

The naming convention remains the same except for the extension (.xlsx) should be used instead of '.txt'.

## 2.4.5 CRG – Correction ownership Reporting of Gross executions – Excel (.xlsx)

| # | Field Name | Format | Comments |
|---|---|---|---|
| 1 | Trade date | N(8) | Trade date (YYYYMMDD) |
| 2 | Execution reference | X(20) | The unique identifier of an execution as assigned by the platform and sent to Cboe Clear. This reference is reported to Clearing Participants in TAG 25 of the 409 and 410 record code in the CIF. First character should be 'B' or 'S for normal trades. The 'B' or 'S' should be preceded by a sequence number in case of corrected trades (maximum length = 20 characters) |
| 3 | MIC | X(4) | MIC of the venue where the transaction has been concluded |
| 4 | Account Number | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) on which the gross execution has been booked |
| 5 | Owner reference FROM | X(20) | Owner reference as specified in the STS file |
| 6 | Owner reference TO | X(20) | Owner reference |
| 7 | Number of Shares | N(10) | Quantity of shares to be assigned to the owner specified in Owner Reference |

Notes

1. All columns are mandatory, including the 'Owner Reference FROM,'
2. The first line of the Excel file must always contain the Field Names,
3. The last line of the Excel file must NOT contain a footer.

## 2.4.6 CRP – Correction ownership Reporting by Position – Excel (.xlsx)

| # | Field Name | Format | Comments |
|---|------------|--------|----------|
| 1 | Account Number | X(4) | 'Full' Account Number |
| 2 | Trade date | N(8) | Date of he conclusion of the trade  (YYYYMMDD) |
| 3 | D/R | X(1) | D=Delivery, R=Receipt |
| 4 | ISIN | X(12) | International Securities Identification Number |
| 5 | Number of shares | N(12) | Quantity of shares (minimum length is 1, no leading or trailing zeros or spaces needed) |
| 6 | Owner reference FROM | X(20) | Owner reference as specified in the STS file |
| 7 | Owner reference TO | X(20) | Owner reference |

Notes:

1. All columns are mandatory, including the 'Owner Reference FROM,'
2. The first line of the Excel file must always contain the Field Names,
3. The last line of the Excel file must NOT contain a footer.

## 2.4.7 ORS – Owner Reference Static data set-up file

***Initial set up ownership static data***

Once Clearing Participants intend to use different Owner References, it is required to complete the ORS Excel file and return this to the Cboe Clear Europe Client Management team, cm.cboeclareu@cboe.com. The complete owner details should be delivered to Cboe Clear Europe as soon as new owner reference details are available. The ORS details cannot be amended when the owner is already registered in the PTI.

In order to amend, update or input new static data of Owner References and Owner details in Cboe Clear's records, Clearing Participants must use the ORS Excel file format confirming the changes.

| Columns | Max. Length | Different Options |
|---|---|---|
| Owner Reference | 20 | |
| Owner name | 140 | |
| First Surname | 40 | left blank if entity is person identity = Legal (Persona juridica) |
| Second Name | 40 | left blank if entity is person identity = Legal (Persona juridica) |
| Type of Identification | 1 | B (Bank Identifier Code), E (NIE), C (CIF), N (NIF), O (others), L (LEI), I (Owner Domestic identification in its origin country), P (Passport) or T (Concat) |
| Identification code | 20 | |
| Natural/legal ind | 1 | F (Persona fisica) J (Persona juridica) |
| Nationality ISO03166 | 3 | |
| National/Foreign ind | 1 | E (Foreign - Extranjero) N (National – Nacional [ie Spanish]) |
| Owner type | 1 | Owner type T (Owner) N (Bare owner) U (Usufructuar) R (Representative) |
| Address | 40 | |
| City | 20 | |
| Postal Code | 5 | (for Spanish residents only, left blank if owner is foreign) |
| Country of residence ISO03166 | 3 | |
| Date of Birth | 8 | Optional field (for natural person only), must be left blank if owner is legal entity. If the date of birth is filled the format must be format = YYYYMMDD |
| Co-owner sequence number | 2 | Unique sequential number assigned to each owner/representative, between 01 - 25. When appropriate, the legal representative must be identified below each co-owner. Example: In case of 2 co-owners, for the first co-owner this field should be populated with 01, the second co-owner with 02. |

\* Allowed character set for all records: A – Z a-z 0-9 . , - ( ) & /

Notes:

- For Spanish residents, the owner reference is a local ID number whereas for non-Spanish residents, financial institutions' BIC codes are used as the owner reference.
- If the Owner Reference as stated in the ORS file already exists in the Ownership table, the record will be updated.

- If the Owner Reference as stated in the ORS file does not exist in the Ownership table, a new record will be created.
- In order to add or change a co-owner or the co-owner details, the owner reference including all co-owners should be provided to Cboe Clear Europe via the ORS file.
- In case Owner References, reported via an ORG/ORP, are missing in Cboe Clear's records, the sender of the files will be informed via the processing status ('N' of Not processed) and the error code per incorrect line in the ORG Result file.
- In order to add, or amend the Owner Reference and Owner details in Cboe Clear's records, a new ORS file is required before Cboe Clear Europe can assign the new or amended Owner Reference(s) to gross executions reported by the Clearing Participant via a 'delta' ORG / ORP file.
- All fields in the ORS file are mandatory and should be completed correctly, with exception of the first surname, second name, date of birth and the co-owner sequence number.
  - The first surname is only mandatory for Spanish entities, while the second name is optional for Spanish entities.
  - The date of birth is an optional field and can only be populated if the Natural/legal identification is equal to F (Persona fisica). The PTI will reject reported ownerships in case certain fields contain incorrect data or left blank.
  - The co-owner sequence number should not be populated for a single owner.
  - For co-owner sequence numbers 02 and higher the address, city and postal code and Country of residence are not mandatory fields.
- The PTI will reject reported ownerships in case certain fields contain incorrect data or left blank.

## 2.5 Hold and Release functionality

### 2.5.1 HRG – Hold and Release of Gross executions

| Start Pos | End Pos | Field Name | Format | Comments |
|-----------|---------|------------|--------|----------|
| 1 | 8 | Trade date | N(8) | Trade Date (YYYYMMDD) |
| 9 | 28 | Execution reference | X(20) | The unique identifier of an execution as assigned by the platform and sent to Cboe Clear. This reference is reported to Clearing Participants in TAG 25 of the 409 and 410 record code in the CIF. First character should be 'S for normal trades. The 'S' should be preceded by a sequence number in case of corrected trades |
| 29 | 32 | MIC | X(4) | MIC of the venue where the transaction has been concluded |
| 33 | 33 | H/R | X(1) | H=Hold, R=Release |
| 34 | 37 | Account Number | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) from which the gross execution need to be put on hold (or released) |
| 38 | 57 | Owner reference | X(20) | Owner reference (See note 8) |
| 58 | 69 | Number of shares | N(12) | Quantity of shares to be held or released |
| 70 | 256 | Filler | | empty |

Notes:

1. A gross execution can be partially held on Settlement Date - 1 or partially released from Settlement Date.
2. The combination of 'trade date', 'execution reference', 'Account Number' and 'MIC' uniquely identifies the gross execution.
3. Only "sell" gross executions (resulting in a securities delivery) which settle on Third Party Account can be put on hold.
4. Only requests to change the execution status (from 'released' to 'hold', or from 'hold' to 'released') will be processed.
5. As reported in the STS-file, gross executions can be split across multiple Owners. If the gross executions are split between multiple Owners, the Owner Reference field is mandatory and must be instructed in the file. In all other situations, this field should be left blank. Clearing Participants and/or their settlement Agents may opt to send HRG records regarding gross executions, split across multiple owners, without Cboe Clear Europe validating the Owner reference. If opted for this approach, Cboe Clear Europe will determine which split gross execution(s) to hold or release randomly. Cboe Clear Europe must be informed if this option is desired as it requires a permanent change in setup.
6. Each file should only contain Hold or only contain Release requests.

## 2.6 Result files

The result files share a common structure. The original records of each ERG, ORG, CRG and HRG file will be repeated. In addition, information is provided to show the processing result. If not processed, an error code will be shown subsequently to allow automated processing and an error message is shown to facilitate easy interpretation.

### 2.6.1 ERG result file

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 8 | Trade date | N(8) | Trade date (YYYYMMDD) |
| 9 | 28 | Execution reference | X(20) | The unique identifier of an execution as assigned by the platform and sent to Cboe Clear.  This reference is reported to Clearing Participants in TAG 25 of the 409 and 410 record code in the CIF.  First character should be 'B' or 'S for normal trades.  The 'B' or 'S' should be preceded by a sequence number in case of corrected trades |
| 29 | 32 | MIC | X(4) | MIC of the venue where the transaction has been concluded |
| 33 | 36 | Account Number (FROM) | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) of the Cboe Clear Europe Client FROM which the gross execution must be transferred |
| 37 | 40 | Account Number (TO) | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) of the Cboe Clear Europe Client TO which the gross execution must be transferred |
| 41 | 50 | Number of Shares | N(10) | Quantity of shares to be assigned to the owner specified in Owner ID |
| 51 | 51 | Processing status | X(1) | P=processed, N=Not processed |
| 52 | 53 | Error code | N(2) | 00 if processed, error code if not |
| 54 | 98 | Error message | X(45) | Empty if processed, error message if not |
| 99 | 256 | Filler | | Empty |

## 2.6.2 ORG result file

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 8 | Trade date | N(8) | Trade date (YYYYMMDD) |
| 9 | 28 | Execution reference | X(20) | The unique identifier of an execution as assigned by the platform and sent to Cboe Clear. This reference is reported to Clearing Participants in TAG 25 of the 409 and 410 record code in the CIF. First character should be 'B' or 'S for normal trades. The 'B' or 'S' should be preceded by a sequence number in case of corrected trades |
| 29 | 32 | MIC | X(4) | MIC of the venue where the transaction has been concluded |
| 33 | 36 | Account Number | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) on which the gross execution has been booked |
| 37 | 56 | Owner reference (FROM) | X(20) | Owner reference, as specified in the STS file |
| 57 | 76 | Owner reference (TO) | X(20) | Owner reference |
| 77 | 86 | Number of shares | N(10) | Quantity of shares to be assigned to the owner specified in Owner Reference |
| 87 | 87 | Processing status | X(1) | P=processed, N=Not processed |
| 88 | 89 | Error code | N(2) | 00 if processed, error code if not |
| 90 | 134 | Error message | X(45) | Empty if processed, error message if not |
| 135 | 256 | Filler | | Empty |

### 2.6.3 ORP result file

The result file for an ORP file will be formatted as an ORG file to make sure we inform the requester on the executions changed. Therefore there will be no ORP result file but an ORG result file for each ORP sent. Please refer to section 2.6.2. for more details.

### 2.6.4 CRG – Result file

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 8 | Trade date | N(8) | Trade date (YYYYMMDD) |
| 9 | 28 | Execution reference | X(20) | The unique identifier of an execution as assigned by the platform and sent to Cboe Clear. This reference is reported to Clearing Participants in TAG 25 of the 409 and 410 record code in the CIF. First character should be 'B' or 'S for normal trades. The 'B' or 'S' should be preceded by a sequence number in case of corrected trades |
| 29 | 32 | MIC | X(4) | MIC of the venue where the transaction has been concluded |
| 33 | 36 | Account Number | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) on which the gross execution has been booked |
| 37 | 56 | Owner reference (FROM) | X(20) | Owner reference as specified in the STS file |
| 57 | 76 | Owner reference (TO) | X(20) | Owner reference |
| 77 | 86 | Number of shares | N(10) | Quantity of shares to be assigned to the owner specified in Owner Reference |
| 87 | 87 | Processing status | X(1) | P=processed, N=Not processed |
| 88 | 89 | Error code | N(2) | 00 if processed, error code if not |
| 90 | 134 | Error message | X(45) | Empty if processed, error message if not |
| 135 | 256 | Filler | | Empty |

Notes:

1. The result file for a CRP file will be formatted as a CRG file to make sure we inform the requester on the executions changed. Therefore there will be no CRP result file but a CRG result file for each CRP sent.
2. The result file will have the .txt extension.

## 2.6.5 HRG result file

| Start Pos | End Pos | Field Name | Format | Comments |
|---|---|---|---|---|
| 1 | 8 | Trade date | N(8) | Trade Date (YYYYMMDD) |
| 9 | 28 | Execution reference | X(20) | The unique identifier of an execution as assigned by the platform and sent to Cboe Clear. This reference is reported to Clearing Participants in TAG 25 of the 409 and 410 record code in the CIF. First character should be 'B' or 'S for normal trades. The 'B' or 'S' should be preceded by a sequence number in case of corrected trades |
| 29 | 32 | MIC | X(4) | MIC of the venue where the transaction has been concluded |
| 33 | 33 | H/R | X(1) | H=Hold, R=Release |
| 34 | 37 | Account Number | N(4) | Account Number (Tag no. 4 of record code 410 in the CIF file) from which the gross execution need to be put on hold (or released) |
| 38 | 57 | Owner reference | X(20) | Owner reference |
| 58 | 69 | Number of shares | N(12) | Quantity of shares to be held or released |
| 70 | 70 | Processing status | X(1) | P=processed, N=Not processed |
| 71 | 72 | Error code | N(2) | 00 if processed, error code if not |
| 73 | 117 | Error message | X(45) | Empty if processed, error message if not |
| 118 | 256 | Filler | | Empty |

## 2.7   Table of error codes, error messages and applicable files

The following table details the error codes, error messages and the files where processing checks may result in the respective error code

| Error code | Error message | ERG | ORG/CRG | HRG |
|---|---|---|---|---|
| 00 | No error | X | X | X |
| 01 | Invalid date, ex ref, MIC, client combination | X | X | X |
| 03 | Invalid account | X | | X |
| 04 | Unknown or Incorrect Owner reference | | X | X |
| 05 | Number of shares too large | | X | X |
| 06 | Incorrect number of shares in ISIN | | | |
| 07 | Unable to process | X | X | X |
| 08 | Execution is not a delivery | | | X |
| 09 | Invalid H/R indicator | | | X |
| 10 | File footer check failed (Trailer failure) | X | X | X |
| 11 | Originator id from footer invalid | X | X | X |
| 12 | Creation date should be equal to processing date | X | X | X |
| 13 | Creation time exceeds the deadline | X | X | X |
| 14 | Number of records incorrect | X | X | X |
| 15 | Invalid data error in file name | | X (CRG) | |
| 16 | Wrong file sequence number | | X (CRG) | |
| 17 | Unsettled trades | | X (CRG) | |
| 18 | No correction possible as ISD+5 Passes | | X (CRG) | |
| 19 | Not processed, eligible for Corporate Action | | | X |
| 98 | Invalid data error (invalid character in numeric) | X | X | X |
| 99 | General error code | X | X | X |

# Cboe® | Clear

## 2.8 STS File Specifications

Distribution of STS-files from Cboe Clear Europe is arranged through sFTP secure file transfer protocol. Cboe Clear Europe offers the possibility to distribute these files from Cboe Clear's sFTP server through Internet.

### 2.8.1 Introduction

**1. Purpose**

The STS Cboe Clear Europe file is meant for Clearing Participants and / or their Settlement Agents in the Spanish market, especially to support the Execution Realignment service, the Ownership Reporting service and the Hold and Release service on gross executions and can be used for further processing and reconciliation.

**2. Format**

The data in the STS Cboe Clear Europe file is delivered in ASCII in the following formats:

- Alphanumeric, meaning all letters and figures are possible. The field is left outlined and if (partly) empty, the field is filled with spaces.
- Numeric; meaning only figures are possible. The field is right outlined and if (partly) empty, the field is filled with zeros.
- Date; meaning only a fixed figure field is possible in the format CCYYMMDD (e.g. 20150520)

**3. Setup**

The data in the STS file contains all open gross executions and all open settlements. These are accumulated within one file and created on:

- Client level, resulting in one file per client number;
- Every file has several record types, each containing 512 bytes and recognizable by the record code.
- The data in the STS file is based on the formatting of the record codes 409 or 410 and 450 of Cboe Clear's CIF files. The STS file only contains record codes 412 (based on 409 and 410) and 452 (based on 450)
- The last record in the file is the trailer record, every file will contain this record code.

**4. Timing**

Cboe Clear Europe will transmit the STS File 3 times per business day. The approximate timings of the files on a business day:

**Approx. 14.45 CET (STS 1400)**

Directly after finalising the Execution Realignment process all gross executions and settlement instructions of Settlement Date minus 1 business date and before (ie not today).

**Approx. 16:00 CET (STS 9900)**

Directly after finalising the Ownership Reporting process and the submission of the Ownership Reporting to the PTI for all gross executions and settlement instructions on Settlement Date minus 1 business date and before (i.e. not today).

**EOD STS**

Cboe Clear Europe will be processing the latest STS file directly after passing the deadline of the ability to put gross executions on Hold. The file contains all outstanding gross executions and settlement instructions, including all gross executions processed with Trade Date today.

**5. Naming conventions**

The Intraday STS-file is called:
 <processing date><4*'-'><client number><6*'-'><time>-STS
       e.g. 20150612----1234------1400-STS
       e.g. 20150612----1234------9900-STS

The Intraday STS-file is always packed in a ZIP-file. The ZIP-file has a different name and is called
<client number>-STS-ID.zip
      E.g. 1234-STS-ID.zip

The EOD STS-file is called:
 <processing date><4*'-'><client number><7*'-'>-STS
       e.g. 20150612----1234-------STS

The EOD STS-file is always packed in a ZIP-file. The ZIP-file has a different name and is called:
 <client number>-STS-DF.zip
      E.g. 1234-STS-DF.zip

**6. Further information**

All questions can be directed to:

Cboe Clear Europe Business Support

Tel.: +31 20 5703 324

Mail to: business.support@cboe.com

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## 2.8.2    Cleared Gross Trades Spain  - 412 -

For this report, there is no differentiating Movement Code, the value will be '00', as the report is a snapshot of the status at that point in time.

All gross trades are uniquely identified by the combination of the fields TRANSACTION DATE and UNSETTLED REFERENCE.

| Cleared Gross Trades Spain | | | | | |
|---|---|---|---|---|---|
| **Tag no** | **Fieldname** | **Len** | **Description / value** | **Field pos.** | **Mandatory** |
| 1 | Record Code | 3 | 412 | 1-3 | Yes |
| 83 | Release Code | 3 | | 4-6 | Yes |
| 84 | Processing Date | 8 | (in format CCYYMMDD) | 7-14 | Yes |
| 85 | Clearing Site Code | 5 | | 15-19 | Yes |
| 2 | Account Type | 5 | | 20-24 | Yes |
| 3 | Client Number | 10 | | 25-34 | Yes |
| 4 | Account Number | 10 | | 35-44 | Yes |
| 5 | Subaccount Number | 10 | | 45-54 | Yes |
| 6 | Opposite Party Code | 6 | | 55-60 | Yes |
| 7 | Product Group Code | 2 | | 61-62 | Yes |
| 8 | Exchange Code Trade | 4 | | 63-66 | Yes |
| 9 | Symbol | 6 | | 67-72 | Yes |
| 10 | Type | 1 | | 73-73 | |
| 11 | Expiration Date | 8 | (in format CCYYMMDD) | 74-81 | |
| 96 | Exercise Price | 15 | (including 7 decimals) | 82-96 | |
| 134 | External Member | 10 | | 97-106 | Yes |
| 135 | External Account | 15 | | 107-121 | Yes |
| 13 | Currency Code | 3 | | 122-124 | Yes |
| 14 | Movement Code | 2 | | 125-126 | Yes |
| 15 | Buy/Sell Code | 1 | | 127-127 | Yes |
| 68 | Quantity Long Sign | 1 | | 128-128 | |

## Cleared Gross Trades Spain

| Tag no | Fieldname | Len | Description / value | Field pos. | Mandatory |
|--------|-----------|-----|---------------------|------------|-----------|
| 16 | Processed Quantity Long | 12 | (including 2 decimals) | 129-140 | |
| 68 | Quantity Short Sign | 1 | | 141-141 | |
| 16 | Processed Quantity Short | 12 | (including 2 decimals) | 142-153 | |
| 19 | Clearing Fee | 12 | (including 4 decimals) | 154-165 | |
| 18 | Clearing Fee D/C | 1 | | 166-166 | |
| 13 | Clearing Fee Cur. Code | 3 | | 167-169 | |
| 28 | Counter Value | 18 | (including 2 decimals) | 170-187 | |
| 18 | Counter Value D/C | 1 | | 188-188 | |
| 13 | Counter Value Cur. Code | 3 | | 189-191 | |
| 23 | Coupon Interest | 18 | (including 2 decimals) | 192-209 | |
| 18 | Coupon Interest D/C | 1 | | 210-210 | |
| 24 | Effective Value | 18 | (including 2 decimals) | 211-228 | Yes, can be zero |
| 18 | Effective Value D/C | 1 | | 229-229 | Yes |
| 20 | Transaction Price | 15 | (including 7 decimals) | 230-244 | Yes |
| 34 | Transaction Date | 8 | (in format CCYYMMDD) | 245-252 | Yes |
| 35 | Settlement Date | 8 | (in format CCYYMMDD) | 253-260 | Yes |
| 36 | Unsettled Reference | 9 | | 261-269 | Yes |
| 25 | External Transaction ID Exchange | 20 | | 270-289 | Yes |
| 159 | Settlement Instruction Reference | 9 | | 290-298 | |
| 39 | Order Number | 10 | | 299-308 | |
| 42 | ISIN Code | 12 | | 309-320 | Yes |
| 66 | Trader Initials (see Tag no. 186, 187, 188 and 189) | 6 | | 321-326 | |
| 90 | ULV Trading Unit | 11 | (including 4 decimals) | 327-337 | |
| 92 | Transaction Origin | 4 | | 338-341 | |

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**Cleared Gross Trades Spain**

| Tag no | Fieldname | Len | Description / value | Field pos. | Mandatory |
|--------|-----------|-----|---------------------|------------|-----------|
| 88 | Exec. Trading ID | 6 | | 342-347 | |
| 146 | Depot ID | 6 | | 348-353 | Yes |
| 147 | Safe Keeping ID | 2 | | 354-355 | Yes |
| 50 | Comment | 21 | | 356-376 | |
| 149 | Timestamp | 6 | | 377-382 | |
| 150 | Transaction Type Code | 3 | | 383-385 | Yes |
| 180 | External position account id | 30 | | 386-415 | |
| 190 | Clearing Account | 8 | | 416-423 | Yes |
| 191 | Spanish CSD account type | 1 | S, or T, or I, or P | 424-424 | Yes |
| 192 | Owner Reference | 20 | | 425-444 | Yes[34] |
| 193 | Hold or Release status | 1 | H or R | 445-445 | Yes |
| | Filler | | | xxx-511 | |
| 156 | End of Line Mark | 1 | # | 512-512 | Yes |
| | **Total Length** | **512** | | | |

Subset for tag 66 Trader Initials available on client request:

| Tag no | Fieldname | Len | Description / value | Field pos. | Mandatory |
|--------|-----------|-----|---------------------|------------|-----------|
| 186 | Place of trade | 2 | | 321-322 | Yes |
| 187 | Country of issuer | 2 | | 323-324 | |
| 188 | Trade type | 1 | | 325-325 | Yes |
| 189 | Late trade indicator | 1 | | 326-326 | |

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[3] If a Clearing Participant requested EuroCCP to no longer validate on the Ownership reference in HRG records, the Owner Reference will be included until and including ISD-1 17:00 CET (2nd intra-day STS file). Hereafter the Owner reference is no longer included in tag 192 of the STS file.

[4] If a Clearing Participant makes use of the HTITU03 Ownership Reporting service the Owner Reference, tag 192, will not be populated.

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### 2.8.3 Spanish Settlement Instruction - 452 –

Every 'settlement instruction reflects the data of one settlement instruction either instructed or to be instructed by Cboe Clear. This could be a MT 540 (receive, free of payment), a MT 541 (receive, against payment), a MT 542 (delivery, free of payment) or a MT 543 (delivery, against payment). The settlement instructions are created from the point of view of Cboe Clear. So in case the client 'Buys', the Settlement instruction will state a Delivery. In case the client 'Sells' the settlement instruction will state a Receive.

The unique identification of a settlement instruction (record code 452) is maintained within the combination of Transaction date + Instruction reference + Deliver/Receive code.

The identification will stay the same during the life cycle of the instruction (until the instruction is settled or cancelled). A settlement instruction is reported daily during its lifecycle.

| Spanish Settlement Instruction | | | | | |
|---|---|---|---|---|---|
| **Tag no** | **Fieldname** | **Len** | **Description / value** | **Field pos.** | **Mandatory** |
| 1 | Record Code | 3 | 452 | 1-3 | Yes |
| 83 | Release Code | 3 | | 4-6 | Yes |
| 84 | Processing Date | 8 | (in format CCYYMMDD) | 7-14 | Yes |
| 85 | Clearing Site Code | 5 | | 15-19 | Yes |
| 2 | Account Type | 5 | | 20-24 | Yes |
| 3 | Client Number | 10 | | 25-34 | Yes |
| 4 | Account Number | 10 | | 35-44 | |
| 7 | Product Group Code | 2 | | 45-46 | Yes |
| 8 | Exchange Code Trade | 4 | | 47-50 | |
| 9 | Symbol | 6 | | 51-56 | Yes |
| 13 | Currency Code | 3 | | 57-59 | Yes |
| 157 | Deliver/Receive Code | 3 | | 60-62 | Yes |
| 183 | Transaction Quantity | 12 | (including 2 decimals) | 63-74 | |
| 171 | Stamp Duty Ind. | 1 | | 75-75 | |
| 158 | Settlement Amount | 18 | (including 2 decimals) | 76-93 | |
| 18 | Settlement Amount D/C | 1 | | 94-94 | |
| 34 | Transaction Date | 8 | (in format CCYYMMDD) | 95-102 | Yes |
| 35 | Settlement Date | 8 | (in format CCYYMMDD) | 103-110 | Yes |
| 42 | ISIN Code | 12 | | 111-122 | Yes |

## Spanish Settlement Instruction

| Tag no | Fieldname | Len | Description / value | Field pos. | Mandatory |
|--------|-----------|-----|---------------------|------------|-----------|
| 159 | Settlement Instruction Reference | 9 | | 123-131 | Yes |
| 146 | Depot ID | 6 | | 132-137 | Yes |
| 160 | Place of Safekeeping | 11 | | 138-148 | Yes |
| 161 | Place of Settlement | 11 | | 149-159 | Yes |
| 162 | Buyer/Seller Context | 8 | | 160-167 | |
| 163 | Buyer/Seller Code | 11 | | 168-178 | |
| 164 | Buyer/Seller Account Code | 12 | | 179-190 | |
| 165 | Rec/Del Agent Context | 8 | | 191-198 | |
| 166 | Rec/Del Agent Code | 11 | | 199-209 | |
| 167 | Rec/Del Agent Account Code | 12 | | 210-221 | |
| 168 | GSI Status | 9 | | 222-230 | |
| 169 | GSI Status Reason | 9 | | 231-239 | |
| 174 | GSI type | 2 | | 240-241 | Yes |
| 173 | Send indicator | 1 | | 242-242 | Yes |
| 175 | Original Instruction reference | 9 | | 243-251 | |
| 176 | Previous Instruction reference | 9 | | 252-260 | |
| 177 | Instruction id SA/AO | 35 | | 261-295 | |
| 178 | Reference Custodian/CSD | 35 | | 296-330 | |
| 172 | Average price | 18 | (including 7 decimals) | 331-348 | |
| 170 | Settlement Fee | 18 | (including 2 decimals) | 349-366 | |
| 18 | Settlement Fee D/C | 1 | | 367-367 | |
| 13 | Settlement Fee Cur. Code | 3 | | 387-370 | |
| 179 | Fail Fee | 18 | (including 2 decimals) | 371-388 | |
| 18 | Fail Fee D/C | 1 | | 389-389 | |
| 13 | Fail Fee Cur. Code | 3 | | 389-392 | |
| 10 | Type | 1 | | 393-393 | Yes |

**Spanish Settlement Instruction**

| Tag no | Fieldname | Len | Description / value | Field pos. | Mandatory |
|--------|-----------|-----|---------------------|------------|-----------|
| 11 | Expiration Date | 8 | (in format CCYYMMDD) | 394-401 | |
| 12 | Exercise Price | 15 | (including 7 decimals) | 402-416 | |
| | Filler | 95 | | 417-511 | |
| 156 | End of Line Mark | 1 | # | 512-512 | |
| | **Total Length** | **512** | | | Yes |

### 2.8.4   Trailer  - 910 -

The 'trailer' record is a check record containing one line, which is always present.

**Trailer Record**

| Tag no. | Fieldname | Len | Description / value | Field no. | Mandatory |
|---------|-----------|-----|---------------------|-----------|-----------|
| 1 | Record Code | 3 | 910 | 1-3 | Yes |
| 83 | Release Code | 3 | | 4-6 | Yes |
| 84 | Processing Date | 8 | (in format CCYYMMDD) | 7-14 | Yes |
| 85 | Clearing Site Code | 5 | | 15-19 | Yes |
| 99 | Holding Number | 10 | | 20-29 | |
| 2 | Account Type | 5 | | 30-34 | Yes |
| 3 | Client Number | 10 | | 35-44 | Yes |
| 43 | Report Date | 8 | (in format CCYYMMDD) | 45-52 | Yes |
| 44 | Total Number of Records | 8 | | 53-60 | Yes |
| 181 | Cboe Clear Europe BIC code | 11 | | 61-71 | Yes |
| 184 | Delta file sequence number | 2 | | 72-73 | |
| | Filler | 438 | | 74-511 | |
| 156 | End of Line Mark | 1 | # | 512-512 | Yes |
| | **Total Length** | **512** | | | |

## 2.8.5 Field numbers, names and descriptions

**1.       Record code**

*Format: numeric*

Code used to identify the record type

**2.       Account type**

*Format: alphanumeric*

Code that indicates for instance if the client's business is  "segregated" (code: CLNT=CLIENT) or "non- segregated" (code: HSE=HOUSE).

**3.       Client number**

*Format: numeric.*

A unique code that identifies the client.

**4.       Account number**

*Format: numeric.*

An unique code that identifies an account.  Every client number has at least one account number.

**5.       Subaccount number**

*Format: numeric.*

Always filled with value 1.

**6.       Opposite party code**

*Format: alphanumeric.*

The identification of the counter party. For regular trade execution on the MTF platform the Opposite Party code "MCFCHI" (MCF Clearing House Information) will be used.

**7.       Product group code**

*Format: alpha numeric*

A code what specifies the product group.

Possible values:
SD                        Stock dividend
ST                        Stock
RI                        Rights

**8.       Exchange code trade**
*Format:  alphanumeric*
The specifies the market where the original trade was executed.  This code reflects the official Market Identification Code ("MIC") as issued by SWIFT (ISO 15022).
In case of the Global Settlement Instruction  the exchange code trade **may** be <empty>, in this case the instruction has been netted across MTF's (exchanges).

Examples :
MIC BATS Trading Limited        ; BATE
MIC CHI-X Europe Ltd.        ; CHIX
MIC ITG MTF                ; ITGX
MIC TURQUOISE MTF        ; TRQX
MIC UBS MTF                ; XUBS
MIC SIGMA X                ; SGMX
MIC SMARTPOOL                ; XSMP

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### 9.    Symbol

*Format: alphanumeric.*

A code,  issued by Cboe Clear Europe which specifies the product.

### 10.    Option type
*Format: alphanumeric.*

*Will be empty for all product groups presently reported.*

### 11.    Expiration date

*Format: date (CCYYMMDD).*

*Will be empty for all product groups presently reported.*

### 12 .    Exercise price
*Format: numeric.*
*Will be empty for all product groups presently reported.*

### 13.    Currency code

*Format: alphanumeric.*

A unique code identifying the currency.

Possible values:
EUR                      Euro

### 14.    Movement code

*Format: alphanumeric.*

Always filled with '00'.

### 15.    Buy/Sell code

*Format: alphanumeric.*

One character specifying whether the transaction was a buy or a sell.

Possible values:

B            Buy
S            Sell

### 16.    Processed quantity long / Processed quantity short

*Format: numeric.*

The volume concerning one transaction. Processed quantity long is filled when the transaction / instructions concerns a Buy.
Processed quantity short is filled when the transaction/instructions concerns a Sell.

### 18.    D/C indicator

*Format: alphanumeric.*

Possible values:
D            Debit
C            Credit

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### 19. Clearing fee

*Format: numeric.*

Will always be zero.

### 20. Transaction price

*Format: numeric.*

The price of the transaction.

### 23. Coupon Interest

*Format: numeric.*

Will always be zero

### 24. Effective value

*Format: numeric.*

The effective value is calculated as follows:  (Quantity * Transaction price) / pricing unit (if applicable).

### 25. External transaction id exchange

*Format: alphanumeric.*

This code reflects the allocated execution ID to the executed transaction by the MTF platform. The transaction has two sides, each side has the same id preceded by the side (buy sell code). The transaction will always keep its ID

### 28. Counter value

*Format: numeric; field will be empty.*

### 34. Transaction date

*Format: date.*

Date on which the transaction was executed.

### 35. Settlement date

*Format: date.*

The date on which the Opposite Party is Expected to receive or is expected to pay for the product to be settled.

### 36. Unsettled reference
*Format: numeric.*
A number issued by Cboe Clear Europe which, in combination with the Transaction Date, uniquely identifies the transaction.

### 39. Order number

*Format: alphanumeric*

A number, issued by the MTF platform, related to the order initiated by the Trading Participant.

### 42. ISIN code

*Format: alphanumeric*

The international standardized code identifying the product.

### 50. Comment

*Format: alphanumeric.*

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Optional field.

In case of record code 412 it will contain the underlined trader information retrieved from the free text field from the MTF fix message (first 9 positions are selected).

### 66.  Trader initial
*Format: alphanumeric; field will be empty*

### 68.  Quantity long sign / Quantity short sign
*Format: numeric.*
Will always be filled with 0.

### 83.  Release code
*Format: numeric.*
Code representing the CIF version

### 84.  Processing date
*Format: date.*
The date on which Cboe Clear Europe generated the data.

### 85.  Clearing site code
*Format: alphanumeric.*
Code issued by Cboe Clear Europe representing the processing MCF entity. Possible value: "MCF"

### 88.  Executing trader ID
*Format: alphanumeric; field will be empty*

### 90.  ULV trading unit
*Format: numeric.*
Trading unit of the underlying value

Possible value:
00000010000

### 92.  Transaction origin
*Format: alphanumeric*
Code indicating if the Trading Participant has executed the trade on the MCF platform as an Agent or Principal.

Possible values:
AGNT    Agent
PRCP    Principle

### 134.  External Member
*Format: alphanumeric.*
Will be filled with a code allocated by the MCF to recognize the Clearing Participant.

### 135.  External Account
*Format: alphanumeric.*
Field will be filled with concatenation of the BIC of the Trading Participant as allocated by the MTF platform followed by the first position of TAG1 (account). This last position specifies if the transaction will be posted within the segregated ("C" =client) or non segregated ("H" = House) account of the Clearing Participant.
Sample:
MTGEBCEBE03 C
MTBEFYTEB05 H

Only in case the execution concerns an Irish fund and the Trading Participant has executed the trade as an Agent the field will be filled with the concatenation of the BIC of the Trading Participant as allocated by the MTF platform followed by the letter "A".

### 146.  Depot ID

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*Format: alphanumeric.*
Name of the safe keeping company.

### 147.　Safe keeping id
*Format: alphanumeric*
Code that indicates the place where the securities are kept.
Possible values: ES　　Spain

### 149.　Time stamp
*Format: numeric*
The time of execution (expressed in GMT) retrieved from the gross trade execution as received from the MTF.

### 150.　Transaction type
*Format: alphanumeric*
A code indicating the type of transaction.

Possible values:
STD　　Standard (default)

### 156.　End of line mark
*Value: #*

### 157.　Deliver/Receive code
*Format: alphanumeric*
Code representing the consequences of a buy of the client (=delivery) or sell of the client (=receive)

Possible values:
DEL　　Delivery
REC　　Receipt

### 158.　Settlement amount
*Format: numeric*
Amount related to the settlement

### 159.　Instruction reference
*Format: numeric*
Code, issued by Cboe Clear, to identify the settlement instruction.
The Instruction Reference is not reported in the record code 410 of the  Standard Intraday CIF file.

### 160.　Place of safekeeping
*Format: alphanumeric*
BIC code of the safekeeping location.

### 161.　Place of settlement
*Format: alphanumeric*
BIC code of the settlement location.  The place of settlement is always equal to the place of safekeeping.

### 162.　Buyer/Seller context
*Format: alphanumeric*
Identification of the Buyer/Seller code from Swift field 95R (e.g. 'BIC' or 'ECLR')

### 163.　Buyer/Seller code
*Format: alphanumeric*
Code related to the Buyer/Seller context, identifying the Clearing Participant.

### 164.　Buyer/Seller account code
*Format: alphanumeric*
Account code of the Clearing Participant.

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**165. Rec/Del agent context**
*Format: alphanumeric*
Identification of the Receipt/Delivery code from Swift field 95R (e.g. 'BIC' or 'ECLR')

**166. Rec/Del agent code**
*Format: alphanumeric*
Code related to the Buyer/Seller context, identifying the Settlement Agent.

**167. Rec/Del agent account code**
*Format: alphanumeric*
Account code of the Settlement Agent.

**168. GSI status**
*Format: alphanumeric*

This field will contain one of the following values:

*'STRNG NET'* : *The settlement instruction contains a strange net which, upon request of the client, will not be resolved. The settlement will, without involvement of a CSD, take place on settlement date. Any settlement amount due will be booked.*

&lt;empty&gt;           No MT548 status has been received representing the status of the settlement instruction.

Other values : The settlement instruction has been sent to the CSD, the code from Swift (MT 548 tag 25D) representing the status of the settlement has been received.

Examples MT548:

| TAG 24B | TAG 25D |
|---------|---------|
| CAND | IPRC/CAND or CPRC/CAND |
| CANP | IPRC/CANP or CPRC/CANP |
| DEND | CPRC/DEND or CALL/DEND |
| NMAT | MTCH/NMAT |
| PACK | IPRC/PACK or CPRC/PACK |
| PEND | SETT/PEND |
| PENF | SETT/PENF |
| REJT | IPRC/REJT or CPRC/REJT or SPRC/REJT |
| CACK | CALL/CACK |
| PPRC | IPRC/PPRC |

**169. GSI status reason**

*Format: alphanumeric*
Optional code from Swift (MT 548 tag 24B), representing the reason of the status as mentioned in code 168. This field is only filled when the MCF has sent out the settlement instructions (T+1 in general).

See for all possible values Swift code MT 548 tag 24B.

**170. Settlement fee**

*Format: numeric.*

Always empty

**171. Stamp duty Ind.**

*Format: alphanumeric.*

Possible values:
'Y' : Yes

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'N' : No

## 172. Average price

The average price of the settlement instruction created.

## 173. Send indicator

*Format: alphanumeric*

The send indicator informs the client whether the settlement instruction has been sent to the CSD.
Possible values:
'Y' : Yes
'N' : No

## 174. GSI type

*Format: alphanumeric*

*The GSI type informs the client of the type of GSI reported.*

Possible values:
20 - Pending  / overdue instruction at the CSD

## 175. Original Instruction reference

*Format: see Settlement Instruction Reference field*
In case the settlement instruction has been created as a result of a previously reported settlement instruction (e.g. in case of a 'split' or 'cancel duplicate') this field is filled with the Settlement Instruction reference number of the originally created settlement instruction.

## 176. Previous Instruction reference

*Format: see Settlement Instruction Reference field*

In case the settlement instruction has been created as a result of a previously reported settlement instruction (e.g. in case of a 'split' or 'duplicate')  this field is filled with the instruction reference of the Instruction is was generated from.

Note: In case of the first 'split' the fields Original Instruction Reference and Previous Instruction Reference' will both contain the same value.

In case of the second, third, etc. 'spilt' the values will differ.

## 177. Instruction ID SA/AO

*Format: alphanumeric*

The Swift settlement reference field from the Settlement Agent / Operating Account.

## 178. Reference Custodian / CSD

*Format: alphanumeric*
The Swift settlement instruction reference field from the Custodian / CSD.

## 179. Fail fee

*Format: numeric*
Will always be zero.

## 180. External position account id.

*Format: alphanumeric*
Always empty

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## 183. Transaction quantity (total buy/sell/net)

*Format: numeric.*

The quantity concerns:

- the total of all buys related to one settlement instruction, or
- the total of all sells related to one settlement instruction, or
- the total of all buys and sells related to one settlement instruction.

## 185. Dual listed indicator

*Format: alphanumeric.*

Possible values;
<empty> - not a dual listed trade
'D'         - a dual listed trade.

Some equity instruments are traded on more than one reference market and settled in a different CSD in each case. These are sometimes referred to as "dual listed ISINs". Where an alternate market, such as an MTF, offers trading to match both reference markets a method is required to differentiate the instruments as they will have the same ISIN and often the same currency. This indicator will separate the Dual listed trades from the non-Dual listed trades.
The Safekeeping ID (tag  147) has been changed to the new code.

## 186. Place of trade

*Format: alphanumeric.*

The execution / venue segment where it differs from the Safe keeping ID or Country of issuer.        This field will always show the original safekeeping id as received from the MTF.

## 187. Country of issuer

*Format: alphanumeric.*

The Country of issuer if the Place of trade is not the place where the ISIN will be settled.

## 188. Trade type

*Format: alphanumeric.*

Possible values;
<empty> - regular equity trade
'O'          - OTC trade
'E'          - ETR trade.
Code that indicates the type of trade.

## 189. Late trade indicator
*Format: alphanumeric.*

Code that indicates if the trade was executed past the regular trading hours of the MTF / TDP.

## 190. Clearing Account
*Format: alphanumeric.*

Account Code that indicates the  Client number and  Settlement Account number as stated in TAG 3 and 4 of Record Code 452(or CIF 450).

## 191. Spanish CSD Account type

*Format: alphanumeric.*

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An I, P, T, S of the four different types of CSD accounts at Iberclear: Individual (I), Proprietary (P), Third Party (T) and SFI (S).

### 192. Owner Reference

F*ormat: alphanumeric.*

For Spanish residents, the owner reference is a local ID number whereas for non-Spanish residents, financial institutions' BIC codes are used as the owner reference.

### 193. Hold or Release status

F*ormat: alphanumeric.* For trades on a Hold status, the 'H' will be stated, and for trades Release, an 'R' will be stated

## 3 Annex

### 3.1 Cboe Clear Europe business day in T2S

| TRADE DATE | | | SETTLEMENT DATE -/- 1 DAY | | SETTLEMENT DATE | |
|---|---|---|---|---|---|---|
| | | | | | 03:00-05:00 | Start T2S maintenance window |
| | | | | | 05:00 | T2S start Real-time settlement |
| | | | | | 07:30 - 08:00 | 1st Release window |
| | | | | | 08:00 | T2S Partial Window |
| 9:00 | | | | | 09:00 - 09:30 | 2nd Release window |
| | | | | | 10:00 | T2S Partial Window |
| | | | | | 11:00 - 11:30 | 3rdh Release window |
| | | | | | 12:00 | T2S Partial Window |
| | | | | | 13:00 - 13:30 | 4th Release window |
| | | | | | 14:00 | T2S Partial Window |
| <14:30 | | Client send ERG-file to EuroCCP | <14:30 | Client send ERG-file to EuroCCP | | |
| | | EuroCCP send ERG result-file to Client | | EuroCCP send ERG result-file to Client | | |
| | Trade will be executed on trading platform | | +/- 14:45 | EuroCCP send STS-file to Client | +/- 14:45 | EuroCCP send STS-file to Client |
| | | | | | 14:45 - 15:15 | 5th Release window |
| | | | <15:45 | Client send ORG/ORP-file to EuroCCP | 15:45 | T2S Partial Window |
| | | | | EuroCCP send ORG result-file to Client | | |
| | | | | | 16:00 | T2S end DVP Real-Time Settlement |
| | | | +/- 16:00 | EuroCCP send STS-file to Client | +/- 16:00 | EuroCCP send STS-file to Client |
| | | | +/- 17:00 | PTI distribute mid day session file (HTITU03) | 16:30 - 17:00 | 6th Release window |
| | | | 17:30 - 18:45 | ISD-1 release window | 18:00-18:45 | Start T2S End of Day process |
| | | | <19:00 | Client send HRG-file S-1 hold to EuroCCP | | |
| <19:10 | | Client send ERG-file to EuroCCP | | EuroCCP send HRG result-file to Client | | |
| | | EuroCCP send ERG result-file to Client | | | | |
| | | | < 20:00 | Settlement instructions send to T2S | | |
| | | | +/- 20:00 | T2S start first Night-Time Settlement cycle | | |
| +/- 20:00 | | EuroCCP send EOD STS-file to Client | +/- 20:00 | EuroCCP send EOD STS-file to Client | +/- 20:00 | EuroCCP send EOD STS-file to Client |
| +/- 20:30 | | EuroCCP send EOD CIF-file to Client | +/- 20:30 | EuroCCP send EOD CIF-file to Client | +/- 20:30 | EuroCCP send EOD CIF-file to Client |

| | |
|---|---|
| | Action for Clearing Participant/settlement agent |
| | EuroCCP processing window release requests |
| | Action for EuroCCP |
| | T2S/ PTI action |
| | HTITU03 Ownership Report can be provided between 07:00 and 19:30 CET. |