



CBOE NL PARTICIPANT MANUAL

19 October 2023 • VERSION 23

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Chapter 1: General Provisions

1. Introduction

This document (the "**Participant Manual**") explains the policies, procedures and technology used by Cboe Europe B.V. ("**Cboe NL**"), which trades under the names of Cboe NL Equities and Cboe NL Derivatives. This Participant Manual supplements the Cboe NL Rule Book (the "**Rules**"). Separately, Cboe NL provides a detailed description of derivatives trading functionality in the Cboe NL Derivatives Trading Manual (the "**Trading Manual**"). To the extent that there is any conflict or inconsistency, the Rule Book takes precedence over the Participant Manual and the Participant Manual takes precedence over the Trading Manual.

Information contained in this Participant Manual is subject to change at any time. For the latest updates, please refer to our website <http://markets.cboe.com/europe/equities> for equities or <http://markets.cboe.com/europe/derivatives/> for derivatives (the "**Website**").

Terms defined in the Cboe NL Rule Book shall have the same meaning in this Participant Manual (unless the context requires otherwise).

2. Cboe NL Markets

Cboe NL is regulated by the AFM.

Cboe NL is authorised to operate a Regulated Market ("**Cboe NL RM Equities**"), for the admission and trading of Exchange Traded Funds and other securities, a Regulated Market ("**Cboe NL RM Derivatives**"), for the admission and trading of derivatives, and an MTF ("**Cboe NL MTF Equities**") on which Participants can trade a range of pan-European financial instruments (each a "**Cboe NL Market**" and collectively the "**Cboe NL Markets**").

From time to time, Cboe NL may offer additional related services.

Transactions conducted on the Cboe NL RM Equities, Cboe RM Derivatives and Cboe NL MTF Equities are conducted under the Rules and may be centrally cleared by the Central Counterparty(ies).¹

Participants connect to the Cboe NL Markets via the Cboe FIX Order Handler using the industry standard FIX protocol, with Cboe specific extensions or via the Cboe Binary Order Entry ("**BOE**") protocol.

¹ Participants have the option to suppress the reporting of certain self-matched transactions to the Central Counterparty(ies) where there is no net settlement. Please refer to the Clearing and Settlement section of the Participant Manual.

3. Technology

The Cboe NL trading platform is housed in a world-class data centre in Equinix Slough (LD4).

The Equinix Slough (LD4) data centre provides a high level of security, redundant power supplies including an on-site backup generator, and reliable cooling. Data centre personnel are available 24/7 to maintain and service the system.

The Cboe NL trading platform is distributed across several Linux blade servers to maximise throughput and minimise bottlenecks. More blades can be added easily to expand system capacity.

Fast, reliable data storage is provided by a Storage Area Network (“**SAN**”).

Please refer to the rope Connectivity Manual which is located on the Website for details of Cboe NL’s compliance with Commission Delegated Regulation (“RTS 10”).

4. Participation

Participation on the Cboe NL Markets

Participation on the Cboe NL Markets is open to any partnership, corporation or other organisation which meets the Eligibility Criteria set out in the Rules.

Applications for participation are made using the Cboe Europe Participant Application Form, which is available on the Website.

Cboe NL may require additional information including:

- i. in the case of an EEA investment firm or credit institution, information on its status and the scope of its permissions, if applicable;
 - a. in the case of an Applicant which is not an EEA investment firm or credit institution, any such information as Cboe NL may require to determine whether the Applicant is fit and proper; has a sufficient level of trading ability and competence; has adequate organisational arrangements; and has sufficient resources for the role they are to perform;
- ii. in the case of an Applicant which is not in the regulated sector and not subject to the EU anti money laundering directive (2005/60/EC), such information as Cboe NL may reasonably require to ensure that the Applicant has in place appropriate procedures to prevent money laundering and other financial crime;
- iii. confirmation from the relevant Central Counterparty that appropriate arrangements are in place for the clearing and settlement of the Applicant’s transactions.

Further information on providing clearing services for Participants can be obtained from the relevant Central Counterparty. Contact details for the Central Counterparties are available on the Website.

Use of the Cboe NL Liquidity Provider Programs

Access to and use of the Cboe NL Liquidity Provider Programs are available to Participants of the Cboe NL Markets. Access to and use of the Cboe NL Liquidity Provider Programs is made available at Cboe NL's absolute discretion.

Any Participant who wishes to make use of the Cboe NL Liquidity Provider Programs must enter into a Liquidity Provider Program Addendum which is available on the Website.

Use of the Cboe BIDS Europe Service

Access to and use of the Cboe BIDS Europe Service is available to participants of the Cboe Markets. Access to and use of the Cboe BIDS Europe Service is made available at Cboe's absolute discretion.

Any participant who wishes to make use of the Cboe BIDS Europe Service must enter into a Cboe BIDS Europe Service Participant Addendum.

Further Information

Further information on the Eligibility Criteria and application process is available from Cboe NL Participant Services: ParticipantServices@cboe.com.

Further information on technical specifications and systems requirements is available from the Cboe NL Trade Desk: +31 (0)20 299 6801 or TradeDeskEurope@cboe.com.

5. Sponsored Access

A Participant who meets the requirements of section 1.3 of the Rule Book may, at any time, apply to Cboe NL to permit a third party (a "**Sponsored Client**") to access and use of a Cboe NL Market on behalf of and in the name of the Participant (the "**Sponsoring Participant**"). Cboe NL will require the Sponsoring Participant to enter into a Sponsored Access Addendum, which is available on the Website.

Cboe NL may also require the Sponsoring Participant to have in place such systems and controls and/or to provide such information from or relating to any Sponsored Client as Cboe NL may in its absolute discretion consider appropriate whether before or after the Sponsored Client has been allowed access to and use of a Cboe NL Market.

Cboe NL will deal with the Sponsoring Participant in relation to any Sponsored Client although Cboe NL may, if it deems it appropriate, contact the Sponsored Client directly, such as in the case of operational matters.

It is the responsibility of the Sponsoring Participant to ensure that each of its Sponsored Clients complies with the duties and obligations imposed on Participants by the Rules as if the Sponsored Client were the Participant (save for in respect of any such duties and/or obligations which manifestly relate to the Sponsoring Participant only). All Orders placed and transactions executed on the Cboe NL Markets by a Sponsored Client will be treated as the Orders and transactions of the Sponsoring Participant who will be wholly responsible for the acts and omissions of the Sponsored Clients they sponsor.

Cboe NL will expect Sponsoring Participants to utilise the Sponsored Access functionality provided by Cboe NL. This functionality includes the pre-execution control functionality, details of which can be found in the Cboe Europe Web Risk Controls Specification on the Website, and the DROP COPY data feed functionality, details of which can be found in the Cboe Europe DROP and FIX specifications on the Website. Sponsoring Participants shall monitor the activity of their Sponsored Clients. Where a Sponsoring Participant does not use any of the Cboe Europe Sponsored Access functionality, Sponsoring Participants shall otherwise satisfy Cboe NL that they have appropriate controls in place.

Cboe NL may suspend, terminate or restrict a Sponsored Client's right of access to and use of the Cboe NL Markets. For the avoidance of doubt, this includes, but is not limited to, circumstances in which the Sponsoring Participant is no longer able to effectively monitor the activity of its Sponsored Clients or where Cboe NL considers it necessary to maintain the orderly functioning of its market. Cboe NL may, but shall not be obliged to, give notice to the Sponsoring Participant of its intention to take any action with respect to a Sponsored Client's right of access to and use of the Cboe NL Markets.

Any Participant proposing to add a Sponsored Client may wish to contact Cboe NL Participant Services to discuss their plans: ParticipantServices@cboe.com.

6. Continuing Obligations

Participants are responsible for ensuring that, at all times, their directors, officers, employees and agents having access to the Cboe NL Markets and other services have adequate experience, knowledge and competency to transact business on and through the Cboe NL Markets and provide them with adequate training.

Each Participant shall provide Cboe NL with details of the person or persons who are responsible for:

- i. managing the relationship with Cboe NL;
- ii. ensuring the Participant's compliance with the Rules;
- iii. technical (operations) matters;
- iv. legal documentation;
- v. payment of accounts; and
- vi. requesting changes to the Participant's trading profile e.g. a mass order delete, trade busts.

Notice of changes to such personnel may be made by email to Cboe NL Participant Services: ParticipantServices@cboe.com.

It is each Participant's responsibility to ensure that they have in place adequate systems and procedures to ensure their ongoing compliance with the Rules and the standards which might reasonably be expected of Participants.

7. Tax (Irish SDT; FTT)

All purchases of Irish shares on the Cboe NL RM Equities or Cboe NL MTF Equities will be subject to Irish Stamp Duty Tax ("**Irish SDT**") (as defined by the Stamp Duties Consolidation Act 1999, as amended). However, some Participants may be able to claim intermediary relief from Irish SDT (as set out in section 75 of the Stamp Duties Consolidation Act 1999, as amended).

If any Participant believes that it can claim intermediary relief, it should read the Irish SDT Guidance Notes and complete the self-certified Irish SDT Intermediary Relief Form. The Guidance Notes and Irish SDT Intermediary Relief Form are available on the Website.

In relation to any financial transaction tax (FTT), Participants whose transactions fall within the scope of a FTT must account for the tax as required, for example through their CSD or through their settlement agent/custodian. For the avoidance of doubt, Cboe NL will not collect or be liable for any tax that might arise as a result of any transaction executed by Participants through its facilities.

8. Notifications

All notifications by Participants to Cboe NL (required by the Rules) should be made no later than the timing specified but ideally should be made in advance of an event triggering a notification and in the case of significant changes to the status or nature of a Participant (such as a change of ownership or control) at least five Working Days prior to the effective date of change.

Notifications should be made to Cboe NL Participant Services at Cboe NL's registered office by mail.

9. Substantial Shareholdings

Each Participant shall ensure that, where necessary, any transactions executed on a Cboe NL Market or any other services are incorporated into its calculations with regard to any applicable substantial shareholdings rules established by the AFM or any other relevant regulatory authority.

Where there are relevant requirements under substantial shareholdings rules to notify or seek approval from any person or body as to the existence of a substantial shareholding, Participants

must ensure compliance with such requirements. Notification to Cboe NL will not discharge any obligations under any substantial shareholding rules.

10. Rules of Fair Practice

Each Participant shall supervise persons associated with it to ensure its compliance with the Rules, the rules and guidance of any relevant regulatory authority, the EU Market Abuse Directive (2003/6/EC) and any other applicable regulations or laws.

11. Suspension, Termination and Restriction

Notice of suspension, termination or the restriction of a Participant's right to place Orders or receive information from a Cboe NL Market or any other services shall be made by telephone or email and confirmed by letter or fax. Cboe NL is under no obligation to notify a Participant before suspending the Participant or restricting the Participant's right to place Orders or receive information from a Cboe NL Market or any other services.

12. Information

In accordance with Rule 1.8, each Participant shall maintain for a period of 5 years in a legible format and (unless prevented by law from doing so) make available to Cboe NL on demand all and any information in the possession or under the custody and control of the Participant (or any Sponsored Client sponsored by that Participant) relating to its activity on a Cboe NL Market or any other services, any Order (including but not limited to information about the reception and transmission of any Order or its subsequent deletion or execution) and the settlement of any resultant transaction.

13. Complaints

In the event that a Participant has any complaint against or is not satisfied with the service provided by Cboe NL or the operation of a Cboe NL Market or any other services, the Participant should inform Cboe NL's Compliance Department. Complaints should be sent to ComplianceEurope@cboe.com.

All complaints will be considered by Cboe NL who will determine what action to take in response to the complaint.

14. Participant Notices and Amendments to the Rules

Cboe NL shall publish or issue Participant Notices or otherwise notify Participants from time to time relating to such matters as amendments to the Rules, notification of the addition or removal of securities, changes to arrangements for trading a security or a derivative (for example to reflect corporate actions). Participant Notices will be displayed on the Website and emailed or copied to every Participant where they relate to a Material Amendment to the Rules. Following a Participant

Notice of a Material Amendment to the Rules, Cboe NL will monitor feedback from Participants and may set up a Participant consultation group to consider the proposed Rule further.

15. Fees and Charges

Each Participant shall pay Cboe NL all applicable fees, charges and costs. These will be set out in the Fee Schedule (as amended from time to time) displayed on the Website.

Any applicable fees, charges and costs imposed by Cboe NL may also be subject to Dutch Value Added Tax or any other applicable taxes which each Participant shall also pay.

Cboe NL reserves the right to charge interest on any amount due to Cboe NL from the date on which payment was due to the date of actual receipt at such rate or rates as Cboe NL may specify from time to time in the Fee Schedule.

16. Transaction reporting for Participants that are not subject to MiFID transaction reporting requirements

Before trading can be enabled for a Participant that is not subject to MiFID transaction reporting obligations, the Participant must certify that it can provide Cboe NL with the information required by Cboe Rule 1.4.3. This information must be provided to enable Cboe NL to meet its transaction reporting obligations.

Cboe NL provides three mechanisms for Participants to provide the required information depending on the nature of their activity.

- 1) Cboe NL Regulatory Transaction Reporting Service - Participants can use the service to upload their transaction reporting information daily in a prescribed format using a XML file through a SFTP. Detailed information regarding the operations and specifications is available in the rope Regulatory Transaction Reporting Service Description on the Cboe website.
- 2) Third party provider – Participants can submit the required information through a third party provider that is certified to provide that information to Cboe NL on behalf of Participants.
- 3) DEAL only - where a Participant conducts on-exchange trades in DEAL capacity, Cboe NL has the information required to generate the required transaction reports if a Participant provides accurate and complete Order Record Keeping information on orders as required by Rule 2.2.9. This is an opt-in feature at the Bank Code level, allowing for separation of flow where needed and requires certification by the Participant.

Order entry on DEAL only bank codes is subject to a validation on capacity and the information provided to Cboe NL on orders relating to Rule 2.2.9 (Identifiers for Order Record Keeping). Please refer to the [Bank Code Set-up and Rejection webpage](#) for further information. Identifiers for Order Record Keeping for any given day must be uploaded before 5am at the latest;

manual reload of short codes for intra-day additions or amendments is available to Participants through the rope MiFID II Identifier Management Application. Irrespective of the mechanism used, Participants are required to provide accurate and complete information. Failure to do so will be a breach of Rule 1.4.3 and could lead to disciplinary action against the firm.

Trading activity exempt from Cboe NL transaction reporting

Certain on-exchange activity may be exempt from transaction reporting. Accordingly, Cboe NL will not require Participants that are not subject to MiFID transaction reporting obligations to provide the additional information for exempt activity.

If a Participant believes that an exemption applies it should contact Cboe NL and certify that the activity is exempt. If Cboe NL agrees that the activity is exempt, the Participant must separate all exempt activity through the use of a separate Bank Code. Exemptions are listed in Article 5 of RTS 22 and include contracts arising exclusively for clearing or settlement purposes.

Trading Venue Transaction Identification Code ("TVTIC")

Whether a Participant is a transaction reporting a Cboe transaction directly to an NCA or to Cboe under Rule 1.4.3, the following value should be used to populate field 3 (TVTIC):

- base-36 encoded Execution Id, with no zero padding on the left

Chapter 2: Securities

2.1. How Cboe NL Equities Works

Cboe NL Equities Markets

The Cboe NL RM and MTF Equities are traded on the DXE Integrated Books, Periodic Auction Books and Dark Books. Participants may also bring Negotiated and Large in Scale Transactions under the Rules.

Integrated Books

The Integrated Book is an anonymous central limit order book, which combines both Displayed (or visible) and Non Displayed (or hidden) liquidity. In this book, the matching engine compares the limit price of an incoming Order with the price of resting limit Orders on the book. If the Order is immediately marketable against the book, an immediate match is made and communicated back to the Participants.

Resting Orders are matched according to the following criteria in descending order of priority:

- i. Price – the displayed limit price of the Order;
- ii. Display – Displayed (visible) Orders have priority over Non Displayed (hidden) Orders and reserve Orders; and
- iii. Time – the time the Order was received by Cboe NL (time priority in the Cboe NL Integrated Book is based on the time stamped on an Order when it arrives in the book).

For priority of pegged Orders, please see Section 2.12 (Order and Trade Types).

Trading on the Cboe NL RM Equities Integrated Book is opened and closed with an auction. The auction begins with a call period of fixed length, during which Participants can submit, amend and cancel orders, but no automatic execution takes place. The call period in the opening auction lasts 10 minutes and in the closing auction lasts 5 minutes. This is followed by a random additional call period of up to 30 seconds after which the auction will attempt to uncross. If the uncrossing would generate a price movement of 5% relative to the reference price, an additional price monitoring extension period of 30 seconds will be triggered. The reference price used will be the last order book traded price, or the open or close price; whichever is the most recent. If the uncrossing would leave unexecuted market orders an additional market order imbalance extension period of 30 seconds will be triggered. A random period of up to 30 seconds will be applied after each extension. A maximum of three price monitoring and three market order imbalance extension periods may be triggered in a single auction.

All unexecuted orders are deleted following an auction, with the exception of orders entered during the opening auction with a TimeinForce value of AtTheClose, which will rollover to the closing auction.

Periodic Auction Book

The Periodic Auction Book is a separate lit book that operates intra-day auctions throughout the trading day. It uses a standard auction price calculation with a price / size / time priority allocation of executions. The book is provided in the DXE environment.

The frequency of the auctions is based on observed activity levels in each security, with more liquid securities uncrossing more frequently. The maximum duration of the auction for each security is made available in the symbol reference file. The actual duration of the auction is random: uncrossing can take place at any time after the start of the auction, up to a maximum duration.

Orders that do not meet the minimum order entry size at the point of entry will be rejected. Any amendment to a resting order will be reassessed against the minimum order entry size and the order will be cancelled back if the amended size does not meet the minimum. The notional value of the minimum order entry size will be notified by Trade Desk Notice. The minimum order entry size, expressed as a number of shares based on the previous night's close, will be included in the daily symbol file.

Participants can set a Minimum Quantity (MinQty) for orders in the Periodic Auction Book. Where Participants have set a MinQty, the auction algorithm will only consider the order for execution if the MinQty can be satisfied. The algorithm will allow multiple fills that in aggregate fulfil the MinQty. Where an Order is partially filled and the residual Order size is lower than the MinQty, the MinQty will be reset to the residual Order size for subsequent auctions.

Participants can also set broker preferencing for orders in the Periodic Auction Book at port level. Where broker preferencing is set, orders with this attribute will be uncrossed in priority moving the execution from price / size / time to broker / price / size / time priority during execution allocation.

To ensure best price and orderly price formation with respect to other Cboe NL Equities order books in continuous trading, an execution collar is applied that prevents uncrossing if the uncrossing price is more than one tick outside the execution collar and, if a valid uncrossing price can be generated, will only consider orders that are marketable within the collar range. Please refer to the Periodic Auctions Book Guidance Note for further information on execution price protection. If uncrossing is prevented then any eligible orders will automatically roll into the next auction.

The start of an auction is indicated by the first Auction Update message after an Auction Summary message or the first Auction Update message of the day. If no execution took place during the auction, an Auction Summary message will be published with zero-value Price and Shares. Indicative uncrossing price and volume are disseminated in real time during auction call periods. Cboe NL also disseminates whether or not the indicative uncrossing price is within the execution collar and therefore likely to uncross as well as a flag to indicate if the collar includes the primary market prices. If the indicative price is outside of the collar (meaning no uncrossing would occur) the indicative price and volume will be omitted from the message. If the indicative price returns to

being within the collar then a new message will be published with the indicative price and volume prior to any uncrossing.

A full description of the functionality of the Periodic Auction Books is set out in the Guidance Note which is available on the Website.

Dark Books

The Dark Book is an anonymous midpoint order book, which is separate from the Integrated Books, where all Orders are Non Displayed. The Dark Book uses the pre-trade transparency waiver available to reference price systems under MiFID and MiFIR, Cboe NL Equities Dark Books support the use of the waiver in shares, ETFs and DRs. Therefore, any Orders submitted to the Dark Book will not be pre-trade transparent. The reference price used is the midpoint of the relevant Best Bid and Offer on the Listing (Primary) Market (the “**PBBO**”).²

Participants should note that where market data is unavailable from a particular Listing Market for whatever reason, Dark Books will not normally be supported in relation to those markets. A list of markets for which Cboe NL Equities does not consume market data, and for which Cboe NL Equities does not therefore operate Dark Books can be found in Section 2.17 of this manual. Further information on temporarily affected markets will be made available on the Website or via a Trade Desk Notice. Alternatively, Participants can contact the Cboe NL Trade Desk.

Cboe Closing Cross (3C)

The Cboe Closing Cross is a separate lit book that operates after the close of continuous trading, which will generally be at 17:30. The book is provided in the DXE environment. The book is non-continuous and uncrosses every 15 seconds for 25 minutes.

Only at-limit order types are permitted in 3C. At-limit orders can only trade at their limit price and offer no possibility of price improvement. Orders entered into 3C are pre-trade transparent and subject to a 20% static collar based on the last continuous book traded price on BXE, CXE or DXE using the transaction time from the matching engine to determine the most recent trade price to use.

The 3C uncrossing comprises two steps - price determination followed by execution allocation. To determine a single equilibrium match price the following criteria are assessed in sequence:

- I. Maximum executable volume. If a single crossing price can be chosen, which uniquely maximises the crossing volume, then this is chosen as the crossing price.
- II. Closest to last traded price - If i. does not resolve a tie break the order which is priced closest to the last traded price will be selected
- III. Highest price – If i. and ii. do not resolve a tie break, the order with the highest price will be selected.

Participants can set a Minimum Quantity (MinQty) for orders in 3C. Where Participants have set a MinQty, the auction algorithm will only consider the order for execution if the MinQty can be

² Where appropriate, midpoint prices are rounded (up) to four decimal places.

satisfied. The algorithm will allow multiple fills that in aggregate fulfil the MinQty. Where an Order is partially filled and the residual Order size is lower than the MinQty, the MinQty will be reset to the residual Order size for subsequent uncrosses.

Once the price has been determined, allocation of executions will be determined based on size then time. Brokers can optionally choose the broker priority attribute at port level. Orders with this attribute will be uncrossed in priority moving the execution from size / time to broker / size / time priority during execution allocation.

A full description of the functionality of Cboe Closing Cross is set out in the Guidance Note, which is available on the Cboe website.

Cboe BIDS Europe

Cboe BIDS Europe is an additional service which allows for the interaction of actionable Indications of Interest (“IOIs”), resulting in the execution of Large in Scale (“LIS”) trades. The system allows actionable IOIs to match at or within the EBBO, with the ability to set additional price requirements such as Limit Price, Market Price and Pegged Price.

Cboe BIDS Europe will identify potential matches between actionable IOIs submitted to the system and send an invitation to firm up to each submitter.

An invitation to firm-up will be sent if the following conditions are met on a single actionable IOI:

- The prices match or cross
- The symbol is available for matching
- The IOI meets the minimum volume requirements of the contra and viceversa
- The match size is equal to or superior to the LISvalue
- The Scorecard for the trader must meet or exceed the Filter setting for the contra and vice versa (for further details see the Cboe BIDS Europe Service Description)

The submitter has then the opportunity to firm up within a set time limit. The time limit will depend upon the type of user and the capacity in which they are acting and will be advised by Cboe from time to time.

Two firm-ups will automatically result in a negotiated trade under the following conditions:

- The symbol is available for execution
- The prices match or cross at or within the EBBO
- The volume on the firm-up meets or exceeds the minimum volume on the contra firm-up and vice versa
- The trade size is equal or superior to the LIS value symbol

The firm-up will then result in a Large In Scale Transaction on the Cboe Markets and benefiting from the LIS waiver.

In order to maximise the interaction of actionable IOIs, each user ID submitting non-actionable IOIs will be assessed via the Scorecard. This determines an overall score based on a trader's past behaviour. A trader who responds to invitations frequently, on the terms on their initial actionable IOI, will have a high score. By contrast, a trader who consistently ignores invitations to trade, or responds with an inferior terms, will have a low score.

Users can also set filters when submitting an actionable IOI, which allows them to manage the counterparties with whom they are willing to interact.

Participants interested in using the Cboe BIDS Europe Service should carefully read the Cboe BIDS Europe Service Description to fully understand the functionality and behaviour.

Cboe NL Equities Closing Price

On any given Working Day, Cboe NL will publish a closing price for a Security admitted to a Cboe NL Market using the criteria below.

Cboe NL MTF Equities – in any given Security, the price of the last transaction on that day. If there are no transactions on a given Working Day, the last Cboe NL Closing Price is used.

Cboe NL RM Equities - in any given Security, the price of the last transaction on the Cboe NL RM on that day, provided that it is at or within the bid and offer at the close. If it is not, the mid-point of the best bid and offer on the Integrated Book. If there is no valid bid and offer on the Integrated Book then the price of the last transaction. If there are no transactions on a given Working Day, the last Cboe NL Closing Price is used.

Order Price Collar

All Orders submitted to the Cboe NL Equities Markets are subject to an Order Price Collar based on a reference price. Where an Order is received that would breach the Order Price Collar, the aggressive Order will be rejected.

The Order Price Collar is 5% or more through the EBBO³, with a minimum increment of more than 1 tick. Where the EBBO is unavailable or has a one-sided quote, the Order Price Collar is 5% or more through the price of the last transaction on a market contributing to the EBBO, with a minimum increment of more than 1 tick.

Price checking will be as described above except during an auction phase on any market contributing to the EBBO. In this case the most recent price update will be used as the reference price. This will include both transactions and indicative auction value updates.

Where there is no EBBO and there has been no transaction on any market contributing to the EBBO on that day, there is no Order Price Collar.

³ The Order Price Collar uses the best Displayed buy Order and the best Displayed sell Order of:

- Cboe UK lit venues (BXE, CXE) and Cboe NL lit venue (DXE)
- Turquoise UK and Turquoise EU (excluding the Czech Republic, Hungary and Poland)
- the Listing Market (excluding Spain, the Czech Republic, Hungary, Poland and Frankfurt Stock Exchange)

Participants who wish to impose a narrower Order Price Collar at order entry may do so on an opt-in basis either at the Participant level or session level by contacting the Cboe NL Trade Desk (+31 (0)20 299 6801, TradeDeskEurope@cboe.com). Narrower collars are only used at the point of Order entry with respect to aggressive Orders.

Static Price Collar

In order to help manage volatility events, a static price collar will be applied to the trading of Securities on the Cboe NL RM and for Cboe NL MTF markets where the Listing Market data is not contributing to the EBBO (as communicated via a Cboe Trade Desk Notice). Unless notified otherwise, the collar will initially be set at 10% away from the previous closing price. This will prevent the acceptance of new aggressive orders that breach the static threshold, e.g. an aggressive buy order that would breach the threshold price would be cancelled, as would sell orders below the lower limit.

Once a collar is triggered, a two minute period will elapse before the collar will automatically move to the next threshold, unless Cboe NL determines that the collar was breached due to an erroneous trade, in which case Cboe NL will cancel the automatic move and bust the trade. The collar price thresholds will increase in increments of 10%.

Market Data

Full depth of book market data for Displayed Orders on the Cboe NL Equities Integrated Books is available via the Cboe NL PITCH protocol.

All published executions on the Cboe NL Markets are also available on the market data feed.

Participants may also receive copies of their Orders via the Cboe FIX protocol and may receive copies of their executions via either the Cboe DROP or FIX protocol.

Note on trading securities listed on the Bolsas Y Mercados Españoles

Participants' use of pegging functionality when trading securities in the Spanish segment is subject to them confirming in writing to Cboe NL that they are in possession of a SIB N1+ market data licence from Bolsas Y Mercados Españoles. Participants are required to notify Cboe NL promptly in writing if the above market data licence is no longer in place.

2.2. Maximum Order to Trade Ratio Policy

All trading in the Cboe NL Equities Integrated and Dark Books is subject to a Maximum Order to Trade Ratio (OTR) policy. Participants are required to adhere to two symbol level thresholds at the end of each trading session; one 'Number Denominated Ratio' and one 'Volume Denominated Ratio'.

The respective thresholds are displayed as a value populated in the daily symbol file and Participants' compliance with the thresholds is monitored by Cboe NL.

The daily symbol file values are populated dependent on the band in which the symbol has been placed by Cboe NL as per the table below. A symbol's band allocation is derived from an end of month calculation performed by Cboe NL.

Liquidity Band	Volume/Number Ratio	Floor	Threshold
Band A	Number Denominated Ratio	1	100,000
Band A	Volume Denominated Ratio	10,000	500,000
Band B	Number Denominated Ratio	1	250,000
Band B	Volume Denominated Ratio	10,000	1,250,000

When admitting a new symbol, the symbol will initially be placed in Band B.

Liquidity Provider Program

A Participant registered and successfully meeting its obligations under a Liquidity Provider Program in a given symbol is subject to a Liquidity Provider OTR threshold in the relevant symbol.

Volume/Number Ratio	Floor	Threshold
Liquidity Provider Number Denominated Ratio	1	1 000 000
Liquidity Provider Volume Denominated Ratio	10,000	10 000 000

Monitoring and breaches

When monitoring Participants' compliance with the OTR threshold, Cboe NL applies a Floor to the breach calculation, where the floor represents the number of units granted per day.

Cboe NL performs monitoring of Participant OTRs on a symbol by symbol basis over each daily trading session. Participants found to have been trading at a ratio above the threshold at the end of a trading session will be deemed to have been in breach of the OTR, which will result in a notification from Cboe NL.

A fixed penalty fine will be issued by Cboe NL if a Participant breaches the ratio four times or more during a calendar month without any mitigating circumstances (please see Cboe NL's Disciplinary Policy).

2.3. Equities Liquidity Provider Program(s)

The Cboe NL Equities Liquidity Provider Program(s) ("**ELPP**") has been designed for Participants that wish to provide liquidity on Cboe NL by posting and maintaining executable quotes with certain set parameters, as outlined below, with the result of providing liquidity on a regular and on-going basis to the market.

Cboe NL will temporarily release Participants from their obligation to provide liquidity on a regular and predictable basis in the case of Exceptional Circumstances. Furthermore, Cboe NL may in its absolute discretion suspend or withdraw the Liquidity Provider Program during Market Disruption.

In order to be considered a Liquidity Provider pursuant to the ELPP, a Liquidity Provider undertakes to quote in accordance with the requirements set out below.

Securities Subject to the ELPP

A Liquidity Provider may elect to add liquidity pursuant to the ELPP in one or more Securities on the Cboe NL Integrated Books. A list of Securities offered on the ELPP is available on the Website. From time to time, Cboe NL may change the list of eligible Securities and will provide such information on the Website.

Required Size

Where a Program specifies a Required Size a Liquidity Provider must provide reasonable quotations by maintaining quotes, such that the aggregate displayed size of qualifying bids or offers in any relevant Security of at least the Required Size (as set out in the table below), or the equivalent, as determined by Cboe NL, in the traded currency of the relevant Security, in order for such quotations to qualify as quotations satisfying the requirements of the ELPP.

Specified Price

A Liquidity Provider must enter and maintain bid prices that are no more than the specified percentage below the Cboe NL Best Bid and an offer price that is no more than the specified percentage above the Cboe NL Best Offer (as set out in the table below), with respect to each relevant Security, in order for such bid or offer, respectively, to qualify as a quotation satisfying the requirements of the ELPP.

Required Time

The ELPP is active between the Official Market Open and Order Book Close (as those terms are defined in Section 2.3), provided, however, the program shall not be active on the Cboe NL MTF (i) during any trading day until after the first transaction on the Listing Market in the relevant Security, (ii) during an auction, a request by the issuer to suspend the relevant Security, a suspension from trading by Cboe NL, or where a Regulator has instructed such suspension (collectively, a "halt"), until after the first transaction on the Listing Market in the relevant Security

following such halt, and (iii) in a relevant Security where there is a public holiday on the Listing Market in the relevant Security.

A Liquidity Provider must be present on the Integrated Book for the relevant Security(ies) consistent with the Required Size, the Specified Price and for the Required Time (as set out in the table below). Non Displayed Orders entered by the Liquidity Provider do not qualify towards a Liquidity Provider's obligations under the ELPP.

Liquidity Provision Flag

All orders submitted in accordance with ELPP must be flagged as liquidity provision activity in accordance with Rule 2.1.

Liquidity Provider Program Parameters

Cboe NL has four Liquidity Provider Programs. Participants can choose to provide liquidity under any of these Programs. For the purpose of the Liquidity Provider Program, the Required Size, Specified Price, Required Time and Market Share Requirement shall be as follows:

	REQUIRED SIZE	SPECIFIED PRICE %	REQUIRED TIME %	MARKET SHARE REQUIREMENT
Program 1	€5,000	0.25%	80%	n/a
Program 2	€5,000	As per LP commitment ⁴	95%	n/a
Program 3 ⁵	N/A	2%	50%	n/a
Program 4	€5,000	As per LP commitment ⁶	95%	0.5%

For Program 1, presence on the Cboe NL Integrated Book is calculated as the sum of time, while the ELPP is active, that a Liquidity Provider has qualifying bids or offers divided by twice the time that the ELPP is active.

For Program 2, presence is calculated as the time that the ELPP is active and a Liquidity Provider has qualifying bids and offers displayed simultaneously on both sides of the order book.

⁴ The Liquidity Provider must commit to a Specified Price that is sufficiently narrow to efficiently fulfil its role for the relevant Security.

⁵ Program 3 complies with the minimum requirements for a market making agreement as set out in Article 2 of Commission Delegated Regulation (EU) 2017/578 and is therefore appropriate for Participants that are obliged to enter into a market making agreement under Article 1 of that Regulation.

⁶ The Liquidity Provider must commit to a Specified Price that is sufficiently narrow to efficiently fulfil its role for the relevant Security.

For Program 3, presence is calculated as the time that the ELPP is active and a Liquidity Provider has at least two simultaneous two-way quotes of comparable size within the specified price. Whereas comparable size is defined as the both sides not diverging by more than 50% from each other, however when assessing comparable size, any marginal volume in excess of €1,000 is ignored.

Withdrawal from ELPP

Subject to meeting the Minimum Term requirement of 30 days, as set out in the Cboe NL Rules, a Liquidity Provider may voluntarily terminate its status as a Liquidity Provider in either Program 1 or Program 2 by providing Cboe NL with a written notice of such termination. Notifications should be made to Cboe NL Participant Services by e-mail or at Cboe NL's registered office.

A Liquidity Provider may temporarily withdraw its status as a Liquidity Provider in a Security or Securities for compliance reasons, or if it is experiencing technical or operational difficulties. In such circumstances, the Compliance Department of the Liquidity Provider must notify Participant Services by email at ParticipantServices@cboe.com of the temporary withdrawal and the reasons for it. Cboe NL may terminate a Liquidity Provider's participation in the Liquidity Provider Program if such Liquidity Provider demonstrates a frequent need to withdraw due to compliance, technical or operational problems.

N.B. It is a Participant's responsibility to ensure that it can continue to comply with Article 1 of Commission Delegated Regulation (EU) 2017/578 ("RTS 8") following withdrawal from any Liquidity Provider Program.

Fees

Liquidity Providers do not receive or pay any additional fees for executions that occur through the ELPP. Standard Cboe NL execution fees apply. Please refer to the Pricing Schedule located on the Website for further details.

2.4. Trade Confirmations

Cboe NL will confirm Orders executed through the Cboe NL Markets via the Participant's order entry connection. The price, quantity and the nature of the transaction (buy or sell) will be made immediately available after an Order has been executed. Any discrepancy between the Order and confirmation should be immediately reported to Cboe NL Trade Desk (+31 (0)20 299 6801). After a Participant has notified Cboe NL by telephone, a written notification must be made by the Participant to Cboe NL within thirty (30) minutes of the Order in question by email to TradeDeskEurope@cboe.com. The notification should include the name of the Participant, time(s) of the transaction(s), the symbol(s), the quantity(ies), the side (bought or sold) and the price(s).

Any erroneous transactions will be subject to the Erroneous Transaction Policy.

2.5. DXE - Erroneous Transaction Policy - Equity

In accordance with Rule 2.2.12 for Equities of the Rule Book, where a Participant reasonably believes that a transaction was executed on a Cboe NL Market or any other services as a result of an erroneously submitted Order, that Participant should in the first instance immediately

telephone Cboe NL Market Supervision (+44 20 7012 8906; +31 20 299 6801) to request that Cboe NL review the transaction. Once a request is submitted, it may not be withdrawn without the consent of the counterparty(ies) to the transaction. After a Participant has notified Cboe NL by telephone, confirmation of this request must be made by the Participant to tradereviewEU@cboe.com within thirty (30) minutes of the execution of the Order in question and no later than 18:00 CET for equities. Any request received within 15 minutes of market close will be dealt with on a best efforts basis, however this is likely to require action by the relevant CCP(s) rather than by Cboe NL.

The e-mail request must contain the following details:

Participant	
Product	
Exchange Execution ID(s)	
Why the transaction is considered erroneous	

In accordance with Rule 2.2.13 for Equities of the Rule Book, Cboe NL may in its sole discretion review any transaction which it reasonably believes was executed as a result of an erroneously submitted Order irrespective of whether any parties to the transaction have requested Cboe NL to review the transaction.

As soon as practicable, Cboe NL will notify all parties to any transaction being reviewed under Rule 2.2.12 or 2.2.13 for Equities of the Rule Book. The parties to the transaction shall provide any supporting information as may reasonably be requested by Cboe NL to aid the resolution of the matter in such format and within such time as Cboe NL may

reasonably specify in its request. Cboe NL will not disclose the name of the counterparty to the trade unless each of them waives their right to anonymity.

Participants must provide Cboe NL as soon as reasonably practical with any information requested by Cboe NL about a potentially erroneous transaction (in accordance with Rule 2.2.12 or 2.2.13 for Equities so that the matter can be resolved during the same trading day before the end of the day cut-off imposed by the relevant Central Counterparty(ies) for processing transactions.

When reviewing a transaction in accordance with Rule 2.2.12 or 2.2.13 for Equities of the Rule Book to determine whether a transaction is clearly erroneous, Cboe NL will consider the importance of preserving the integrity of the Cboe NL Markets, including the importance of preserving certainty of transactions executed on the Cboe NL Markets. Cboe NL will review every case on its own merits and may consider, without limit, any of the following criteria:

- i. the price at which the Order was executed, including, where relevant, whether the price at which the Order was executed was too far away from a suitable reference price. For the Cboe NL RM or MTF Equities, this will typically be a deviation of 5% from the price of the last transaction on the Listing Market or any other relevant MTF.
- ii. information gained from the relevant Participants;
- iii. Cboe NL's analysis of relevant market data;
- iv. Cboe NL's analysis of relevant market events;
- v. any system errors and/or failures that impact market integrity;
- vi. any Negotiated Transactions which do not comply with the pricing criteria defined in the Cboe NL Rule Book; and
- vii. any Negotiated Transactions which have been notified to Cboe NL using a Matching Exchange Trade Report and for which no Matching Confirmation has been received.

As soon as practicable, Cboe NL will notify all parties to any transaction being reviewed under Rule 2.2.12 or 2.2.13 for Equities of the Rule Book whether the transaction(s) will stand or be cancelled by email.

Where a Participant becomes aware that details of an Off Book Transaction that has been notified to Cboe NL using an Exchange Trade Report are incorrect, it should immediately request that Cboe NL cancel or amend the Exchange Trade Report. Where the Participant is both the buyer and seller (single-party) or the Trusted Counterparty (multi-party) of the Off Book Transaction, this request may be made electronically. Electronic cancellation and amendment requests are possible up to 18:00 on the sixth calendar day after the transaction for non-CCP cleared trades, and up to 18:00 on the day of the trade for CCP cleared trades. A maximum of three electronic amendments are possible for any particular trade. The availability of this functionality does not remove the obligation on Participants to ensure that Exchange Trade Reports are accurate and that Cboe NL is made aware of any errors as soon as they are detected.

Where a Participant wishes to cancel more than 100 Off Book Transactions, and is unable to do so electronically, Cboe NL will view this a prima facie breach of Rule 1.2.2.4 which required Participants to have adequate systems, procedures and controls. This will result in a fixed penalty fine (please see Cboe NL's Disciplinary Policy.)

If Cboe NL concludes that an Exchange Trade Report has been accepted in error by Cboe NL as a result of a Cboe NL system malfunction then that transaction will be considered to be erroneous and Cboe NL will cancel the transaction if it receives a request from either counterparty.

2.6. Currencies Quoted

Local currency for each Security: GBX, USD, EUR, JPY, CAD, AUD, NOK, DKK, SEK, CHF, CZK, HUF, PLN, MXN, NZD.

2.7. Eligible Securities

Cboe NL offers trading in financial instruments, including constituents of major European indices, Depository Receipts (DRs), Exchange Traded Funds (ETFs), Exchange Traded Commodities (ETCs) and Exchange Traded Notes (ETNs). Cboe NL will notify Participants of details of eligible Securities from time to time and will display a list of eligible Securities on the Website.

Participants will be permitted to trade in all Securities for which they have valid clearing arrangements, as confirmed by the relevant Central Counterparty. Participants should ensure that they only enter Orders into a Cboe NL Market or any other services for those securities where they have the appropriate regulatory permissions. A Participant may contact Cboe NL Participant Services at any time to amend its access rights.

With respect to the Cboe NL MTF, Participants may request that a Security be admitted to trading by contacting Cboe NL Participant Services and providing details of the Security. Cboe NL will determine whether or not the Security will be admitted to trading and the results of that determination will be communicated to the Participant. Requests for addition should be made prior to 10:00AM on the Working Day prior to the desired first day of trading. With respect to the Cboe NL RM, Securities may be admitted to trading subject to meeting the requirements of the Issuer Rules, and having an application for admission approved. Cboe NL reserves the right to add to and delete Securities from a Cboe NL Market, if Cboe NL deems it necessary or desirable to do so.

Any additions and deletions of Securities traded on the Cboe NL Markets will be communicated to Participants and will be displayed on the Website.

Cboe NL will not offer trading on the Cboe NL MTF in any securities which are not listed or admitted to trading on at least one of the principal European Exchanges. However, this may include admitting newly listed securities to the Cboe NL MTF on the first day of trading.

2.8. Minimum and Maximum Order Sizes

Minimum Order Size:	1 Share for all markets.
Maximum Order Size:	99,999,999 Shares for all markets.

2.9. Clearing and Settlement

Interoperable Central Counterparty Model

All Participants must have an appropriate clearing relationship with a Central Counterparty either directly or through a General Clearing Member. A list of eligible Central Counterparties is on the Website.

Under the interoperable Central Counterparty model, where a transaction occurs between two Participants, each leg of the transaction will be sent to the Participant's respective interoperable Central Counterparty for clearing and settlement processing.

Clearing Suppression Service

Participants have the option to suppress the reporting of transactions conducted on the Cboe NL Markets to the Central Counterparty(ies) where there is no net settlement; that is, where the Participant, clearing method (as a Direct Clearing Member or through a General Clearing Member) and the account type (either House or Client) are all the same. These transactions will not be sent to or cleared by the Central Counterparty(ies). Participants who wish to suppress the reporting of qualifying transactions to the Central Counterparty(ies) may do so on an opt-in basis for specified Listing Markets by contacting the Cboe NL Trade Desk (+31 (0)20 299 6801, TradeDeskEurope@cboe.com).

Settlement Location

Unless agreed otherwise, a transaction in any European Security shall be settled in accordance with the standards set by the local Central Securities Depository (CSD) for that Security, as published by Cboe NL and its CCPs from time to time. The normal settlement location and cycle for a market segment supported by Cboe NL is listed below:

MARKET SEGMENT	SETTLEMENT LOCATION	SETTLEMENT TIMELINE
Austria	OEKB	T+2
Belgium	Euroclear Belgium	T+2
Czech Republic	Centralni Depozitar Cennych Papiru, A.S.	T+2
Denmark	VP Security Services	T+2
Finland	Euroclear Finland	T+2
France	Euroclear France	T+2
Germany	Clearstream Frankfurt, Clearstream International	T+2
Hungary	KELER LTD.	T+2
International Depository Receipts (IDRs)	Euroclear Bank	T+2
Ireland	Euroclear Bank	T+2
Italy	Monti Titoli	T+2
Netherlands	Euroclear Netherlands	T+2
Norway	VPS	T+2
Poland	KDPW S.A	T+2

Portugal	Interbolsa	T+2
Spain	Iberclear	T+2
Sweden	Euroclear Sweden	T+2
Cboe NL RM	As advised by the security issuer	T+2

Settlement practices

In exceptional circumstances, Cboe NL or the relevant Central Counterparty may:

- i. Change the settlement location of a Security, if it believes that settlement liquidity in a particular Security has shifted from one CSD to another
- ii. Extend the settlement date of a Security for an off order book transaction.

The above courses of action will be taken in conjunction with the Central Counterparties supporting the Cboe NL market.

Dual ISINs

Please note that due to Cboe NL trading in multiple European market segments, Participants may trade and settle Securities with the same ISIN in multiple locations. The settlement location for each unique ISIN / currency / market segment combination is defined by the above table.

An example is shown below:

STOCK NAME	ISIN	CURRENCY	MARKET SEGMENT	SETTLEMENT LOCATION
STMicro Electronics	NL0000226223	EUR	France	Euroclear France
STMicro Electronics	NL0000226223	EUR	Italy	Monti Titoli

Non-standard settlement functionality is provided for the Exchange Trade Report (ETR) service where a non-standard settlement currency or location can be used in the following ways:

1. Non-standard settlement currency

Participants submitting ETRs to Cboe can indicate settlement in an alternative currency to the standard traded/settlement currency. This is available in the following markets and currencies:

Market	*Standard settlement currency	Alternative / Non-standard Settlement currencies **	Central Securities Depository
UK	GBp, GBP	EUR, USD	Euroclear UK & I
Switzerland	CHF	EUR	SIS
Denmark	DKK	EUR	VP Securities

*The standard trading and settlement currency for the local market

Use of the above functionality is subject to submitting Participants passing a **mandatory conformance test in the Cboe Certification (UAT) environment.

2. Non-standard settlement location

Participants submitting ETRs to Cboe can request settlement take place in an International CSD (ICSD), with settlement in Euros or US Dollars. This is available as follows providing Participants have the appropriate clearing authority in place from their General Clearing Member/Central Counterparty (CCP):

Market	*Standard settlement currency	Alternative / Non-standard Settlement currencies **	International Central Securities Depository
All Markets	Local currency	EUR, USD	Euroclear Bank

*The standard trading and settlement currency for the local market

Use of the above functionality is subject to submitting Participants passing a **mandatory conformance test in the Cboe Certification (UAT) environment.

2.10. Time in Force Values

Orders may specify one of the following time in force values (each a "**Time in Force Value**"):

IOC – immediate-or-cancel

DAY – available for trading during trading hours

GFA – expires at the end of the periodic auction before the next auction match attempt

GTD – expires at the earlier of the specified expiry time or at the end of the trading day.

The following additional Time in Force Values are available on the Cboe NL RM:

AtTheOpen – available for trading during the opening auction

AtTheClose – available for trading during the closing auction

All remaining Orders (including GTC Orders) shall expire at the end of the Cboe NL trading day.

2.11. Minimum Tick Increment

Cboe NL minimum tick size increments are available on the Website.

2.12. Order and Trade Types

Order Types

Limit Orders

Cboe NL accepts limit Orders in the Integrated and Periodic Auction Books.

Market Orders

Cboe NL accepts market Orders in the Integrated and Periodic Auction Books. Cboe NL imposes a limit price on all market Orders. The limit price provided by Cboe NL on any market Order is 1% away from the EBBO but at least 0.1 traded currency units. Where the provided limit price would exceed the Order Price Collar, the limit price will be one tick inside the Order Price Collar. All market Orders are implicitly IOC.

Non Displayed (Hidden) Orders

Cboe NL allows Non Displayed Orders. Orders with a Time in Force Value of IOC are not classified as Non Displayed Orders.

All Non Displayed Orders in the Integrated Books must, where applicable, satisfy at the time of entry the qualifying Large in Scale (LIS) criteria specified in table 2 to Annex II of the Markets in Financial Instruments Directive (MiFID) Regulation. For financial instruments not covered by the MiFID LIS criteria, all Non Displayed Orders must satisfy at the time of entry the criteria determined by Cboe NL, which shall be displayed on the Website.

In the Integrated Books, Displayed Orders receive the highest time priority over all other Order types. Non Displayed Orders receive the lowest time priority.

Non Displayed Orders in the Dark Books must be flagged as midpoint but do not have to satisfy the MiFID LIS criteria. Participants may attach an absolute limit to their Orders, such that where the reference price (that is, the midpoint of the PBBO) is more aggressive than the specified limit, the Order will not be available for execution.

Executions in the Dark Books will only occur at the midpoint of the PBBO.

Participants can set a Minimum Quantity (MinQty) for the above Non Displayed Orders. Participants can configure this behaviour to, upon entry, either allow multiple fills that in aggregate fulfil the MinQty or require that the MinQty is executed in a single fill. Once resting, orders with a MinQty can only be executed in a single fill that satisfies the MinQty set. Where an Order is partially filled and the residual Order size is lower than the MinQty, the MinQty will be reset to the residual Order size.

Reserve (Iceberg) Orders

All Iceberg orders are subject to a minimum order size of €10,000 or equivalent in the traded currency of the symbol.

In the Integrated Books, reserve quantities of an Order are filled only after Displayed and Non Displayed Orders are filled. Each subsequently “reloaded” Order is treated as a new lit tip with a priority associated with the time it was reloaded into the order book. With this Order type, a Participant can set the amount of the Order to be displayed and the amount of the Order to keep in reserve and how many shares are to be “reloaded” after the displayed portion is filled with each execution.

Iceberg orders are available in the Periodic Auction Books although they will be treated as limit orders with their total volume and no reserve.

Pegged Orders

In the Integrated Books on the Cboe NL MTF, Cboe NL allows Orders to peg to the PBBO in four ways:

- i. Primary – pegs to the same side of the PBBO as the Order
- ii. Market – pegs to the opposite side of the PBBO from the Order
- iii. Midpoint – pegs to the midpoint of the PBBO (non-displayed)
- iv. Alternate Midpoint – pegs to the less aggressive of the midpoint of the PBBO or 1 tick inside the same side of the PBBO as the Order

Primary and Market pegs may include a non-aggressive offset. Midpoint pegs may not include an offset. Midpoint peg Orders have a lower priority than other peg Orders ranked at the same price.

In the Integrated Books on the Cboe NL RM, Cboe NL allows orders to peg to the Cboe NL Best Bid and Offer (“CBBO”) in two ways:

- i. Market – pegs to the opposite side of the CBBO from the Order
- ii. Midpoint – pegs to the midpoint of the CBBO (non-displayed)

All visible pegged Orders (Primary and Market) in the integrated book are subject to the Cboe NL tick-sizes. If the implied referenced price is not on a Cboe NL tick, the visible peg Order limit price will be rounded in a non-aggressive manner away from the midpoint to the nearest Cboe NL tick increment.

Participants should note that where market data is unavailable from a particular Listing Market for whatever reason, pegged orders will not normally be supported in relation to those markets. A list of markets for which Cboe does not consume market data, and for which Cboe does not therefore support pegged orders can be found in Section 2.17 of this manual. Further information on temporarily affected markets will be made available on the Website or via a Trade Desk Notice. Alternatively, Participants can contact the Cboe NL Trade Desk.

In the Periodic Auction Book Cboe NL allows orders to peg to the mid-point EBBO. Participants can request on the order that in the event that the Listing Market prices are not available that the order is not available for execution (“Guarded Midpoint”). If this attribute is selected on an order in a market listed in Section 2.17 of this manual and for which Cboe does not consume market data then the order will be rejected.

Post Only Orders

Cboe NL only allows post only Orders in the Integrated Books. Post only Orders allow Participants to make a market and specify not to remove liquidity. Any incoming displayed post only Order that would cross with a resting passive Order will be rejected. Any Non Displayed post only Order that would cross with a resting passive Order will not be rejected but will not be available for execution until a re-evaluation event has occurred, such as a new incoming Order or a price movement in the applicable reference price.

Sweep Orders

i. Dark-Lit

Allows Participants to access both the Dark and Integrated Books of DXE using a single order. Only orders with a time in force value of ‘Immediate or Cancel’ (**IOC**) or **Market** will sweep the dark order book when using the Dark Lit Sweep routing instruction. The order will execute first against available liquidity in the Dark Book and any remaining quantity will be sent to the Integrated Book. All other time in force values will continue to be accepted, but will not interact with the dark book, and will only be routed to the DXE lit order book.

ii. Dark to Periodic Auction Book sweep order

Allows Participants to access both the Dark and Periodic Auction Book using a single order. A qualifying order will sweep the Dark Book before resting in the Periodic Auction Book for the remaining quantity and time in force. The order will be midpoint pegged honouring the limit price. If a symbol is capped due to the MiFID double volume cap or primary market pricing is unavailable the order will route directly to the Periodic Auction Book. Broker preferencing will be honoured in the Periodic Auction Book but not in the Dark Book. Amendments to an order which is resting on the Periodic Auction Book will not route through the Dark Book.

iii. Dark on Expiry

Allows Participants to access the Periodic Auction Book and then sweep the Dark Book using a single order. A qualifying order will have the option for any residual quantity to be

swept from the Periodic Auction Book to the local Dark Book at the expiry of the auction as an Immediate or Cancel order. This functionality is only applicable to marketable Add or Cancel and Good for Auction order types, and Dark on Expiry can be specified on a per order basis or on the port level. If an order is supplied with a Minimum Acceptable Quantity (“MAQ”) this value will be honoured in the Dark Book, and if the order has partially executed and the residual is below the MAQ then the MAQ will be set to the residual amount in the Dark Book.

- iv. **All or nothing**
Allows Participants to set the MAQ on their Periodic Auction order to the full quantity of the order by setting a per order attribute or requesting a port default. An order with this type of functionality flagged will only execute if the full order size can be traded. This functionality is only available to marketable Accept or Cancel and Good for Auction order types.

Any order size amendments to orders flagged with All or Nothing shall be honoured. This instruction can be specified on a per order basis on inbound FIX/BOE messages using additional characters in the routing instruction or on the port level.

- v. **PAB Lit Sweep Order**
Allows Participants to use a single Accept-Or-Cancel (AOC) order to check the Periodic Auction Book (“PAB”) for marketable contra liquidity (meeting any specified Minimum Acceptable Quantity and/or Price Improvement) in which case the order is accepted into the PAB as a Good For Auction order. If the order is not marketable in the PAB, it will immediately target the local Lit book using the original Time In Force of the order. Dark on Expiry can also be submitted as an additional sweep order attribute, which will route any unexecuted PAB order quantity to the local Dark book as an Immediate or Cancel (“IOC”) order following the completion of the PAB cycle.
- vi. **Dark PAB Lit Sweep**
Will first sweep the Dark book as an effective IOC before targeting the PAB as an AOC order. If it is not accepted into the PAB, it will immediately target the local Lit order book with the client-specified Time in Force. Dark on Expiry can also be requested as an additional sweep order attribute.

Please refer to the Periodic Auctions Book Guidance Note for further information

Accept Or Cancel (AOC) Orders

Cboe NL allows AOC orders in the Periodic Auctions Book. The AOC order type ensures marketable orders remain in the Periodic Auctions Book for the duration of the auction and are treated as Good For Auction (GFA) unless cancelled by the Participant. Non-marketable orders are cancelled back immediately. It should be noted that AOC orders accepted into the Periodic Auctions Book are likely to result in an execution but are not guaranteed to. Please refer to the [Periodic Auctions Book Guidance Note](#) for further information.

Near Side Peg

This order attribute allows Participants to peg to the bid or offer within the Periodic Auction Book with less message-traffic. In addition, It allows Participants to optionally select a price offset from the current near side of the EBBO. The peg's offset is limited to the more passive of the limit price on the order (if one is provided) and the mid-point.

Exchange Trade Reports (“ETRs”)

The ETR trade type allows Participants to transact off-order book Negotiated Transactions and Large In Scale Transactions (together with Block Trades, “Off Book Transactions”) on the Cboe NL Markets. Off-book Transactions are subject to the Rules, including meeting section 2.3 or 2.4 of the rules as appropriate. Upon receipt of an ETR, the Off-book Transaction will be acknowledged to the Participant and reported to the CCP(s) where appropriate. Participants should note, due to restrictions at some CCPs, Participants wishing to enter trades above €50 million should first contact Cboe NL Participant Services as trades above this value may be subject to rejection by those CCPs.

Off-book Transactions will be published in real time unless the Participant has requested trade reporting suppression or a delay for which the report is eligible. Participants must include transaction time in the ETR unless the transaction was conducted electronically and reported in real time, when Cboe NL will populate the transaction time as being the time of receipt.

- i. Rule 2.4.1.4(c) permit the submission of Negotiated Transactions where they are subject to conditions other than current market price, provided that they are identified as such in the ETR using the "PRIC", "NPFT" and "BENC" flags. Examples of the types of transactions for which this would be appropriate are set out in paragraphs (a), (b), (c), (e) or (j) of Article 6 of Commission Delegated Regulation (EU) 2017/587 ("RTS 1"). The flags should be set in accordance with Table 4 of Annex 1 of RTS 1.

Responsibility for submission of ETRs

Participants must ensure that duplicate ETRs are not submitted. Rule 2.4.3 requires that the selling Participant submits the ETR, unless the Participants are using Matching Exchange Trade Reports (see below) or have agreed otherwise. Accordingly, in the event that two ETRs are received for the same trade, the buying Participant will be considered to be in breach of the rule unless it can demonstrate that agreement was reached for them to report.

Trusted Counterparties

Before Participants are able to submit ETRs for Off-book Transactions with other Participants, or in the case of Arrangers, on behalf of other Participants, they must be approved by the other Participant(s) to do so. A Participant should pre-approve any Participants that it is prepared to accept ETRs from using the Cboe NL Exchange Trade Report Counterparty Trust Matrix form. Cboe NL will maintain a record of all "trusted" relationships and will only accept ETR submissions, amends and cancels between Participants where the appropriate trusted relationship exists between the submitting Participant and its counterparty or between the Arranger and both counterparties to the submitted trade.

Submission Via Third Party Matching Service

Participants may also elect to submit ETRs via a third party matching service. In this case, both Participants must have enabled the third party matching service provider as a reporting channel. A list of service providers that have the connectivity and have passed the appropriate conformance tests to be able to offer this service will be provided by Cboe NL on request.

Matching Exchange Trade Report ("METR")

Participants can also report NTs to Cboe NL using METRs. When using this method, the selling Participant must submit a METR to Cboe NL and the buying Participant must submit a Matching Confirmation. The METR and Matching Confirmation contain primary and optional secondary matching fields. While both Participants have an obligation to submit either an METR or Matching Confirmation, the selling Participant will be responsible for providing certain details, such as the trade time. Participants are not required to enter into trust relationships to enter into Off-book Transactions using METRs.

Where the price of a METR and Matching Confirmation do not match completely but the tolerance selected by the buying Participant allows for the price submitted by the selling Participant, then it is the price provided by the selling Participant that will be applied to the transaction.

Delayed Publication

Rule 2.4.6 permits Participants to request that the publication of a Negotiated Transaction that has been reported using an Exchange Trade Report be delayed in certain circumstances. Where a delay is requested, and if a transaction meets the size requirement, Cboe NL will apply the delay as set out in Tables 4, 5 and 6 of Commission Delegated Regulation (EU) 2017/587 ("RTS 1") Where an instrument is traded in a currency other than Euro, Cboe NL will convert the values in the table below using the appropriate exchange rate as published by the ECB. Where the ECB does not publish an exchange rate, Cboe NL will use a suitable alternative.

Settlement Price and Non-Standard Settlement

Participants can use additional fields on the ETR message to request that the CCP or CCPs settle Off-book Transactions at a price other than the transaction price. Participants can also request that the CCP or CCPs vary the settlement date. Valid settlement dates range from T+1 to T+30. Please note that any values populated in these fields do not alter the terms of the transaction on Cboe NL and will have no effect on transactions where clearing has been suppressed. This functionality is not currently supported for Off-book transactions that are reported using METRs.

2.13. Order Management

No guarantee is made about system performance, especially during periods of high volatility and Order traffic. However, the Cboe NL system was designed to handle at least 5,000 incoming messages per second, per port, while providing acceptable Order acknowledgement times. Participants planning to send Orders at a higher rate than 5,000 Orders per second should make arrangements to connect to multiple ports. Any incoming Orders in excess of 5,000 messages per second per port will be rejected.

Double Volume Cap Mechanism

Trading under the Reference Price and Negotiated Trade Waivers is limited based on the percentage of trading carried out under the waivers. The limits are set to 4% of the total volume of trading in an instrument on a given trading venue - or 8% of the total European Union volume of trading in an instrument - over the previous twelve (12) months, calculated on a rolling basis in accordance with Article 5 of MiFIR.

The limits do not apply to Negotiated Transactions which are in a share, depositary receipt, ETF, certificate or other similar financial instrument;

- for which there is not a Liquid Market; or
- that are subject to conditions other than the current market price; or
- which are Large in Scale.

Cboe NL will make reasonable efforts to avoid breaching the 4% venue threshold and may choose to suspend use of the relevant waivers in a symbol pre-emptively in order to avoid a breach, which would otherwise result in a six (6) month suspension of use of the waivers.

Availability of the waivers for any given symbol is displayed in the Cboe NL symbol file.

2.14. Technical Requirements

The technology and infrastructure requirements which are necessary to connect to and operate on the Cboe NL Markets, including connectivity requirements, FIX specification, BOE specification and market data specifications are published and regularly updated on the Website.

Cboe Europe publishes all connectivity options in the **Cboe Connectivity Manual**. Participants are responsible for choosing their telecommunications provider and arranging connectivity and for complying with the requirements as specified by Cboe NL from time to time.

2.15. Trading Hours (Central European Time)

Cboe NL Equities

08:00 testing	Market data feeds and order entry handlers are available for connectivity
08:00	Cboe NL Trade Desk Staffed, NOC Desk Staffed, Participant Services Staffed, Development Support Available
08:50	Pre Market Open (ETRs can be submitted and opening auction will begin on Cboe NL RM)
09:00	Official Market Open (This may be delayed up to 09:06:30 on the Cboe NL RM if the opening auction triggers extension periods)
17:30	Official Market Closed (Our book for the trading day is closed and all outstanding day Orders are cancelled although submission of ETRs can continue. The closing auction will begin on the Cboe NL RM)
17:35	Cboe NL RM closing auction uncrossing (This may be extended up to a maximum of 17:41:30 if all extension periods were to be triggered)
19:00	After Market Closed (ETRs can no longer be submitted)
19:15	All inbound connections are severed

19:30 Cboe NL Trade Desk Closed

19:30 NOC Desk Closed

Cboe Markets will generally observe the same trading hours as other Listing Markets. The Continuous Trading sessions and Cboe Closing Cross (3C) differ for the below market segments (all Central European time):

Market Segment	Continuous Session End/3C Session Start	3C Session End
Oslo, Norway	16:20	16:45
Copenhagen, Denmark	16:55	17:20
Helsinki, Finland	17:25	17:50
Stockholm, Sweden	17:25	17:50
Dublin, Ireland	17:28	17:53
Prague, Czech Republic	16:10	15:35
Warsaw, Poland	16:50	17:15
Budapest, Hungary	17:00	17:25

Changes to trading hours will be notified to Participants a reasonable time in advance of such changes.

Trading Phases

Cboe NL publishes a trading phase indicator for Cboe NL RM and MTF Equities via market data. Each indicator and associated phase, along with a detail about trading behaviour in that phase, are described in the table below.

INDICATOR	TRADING PHASE	DESCRIPTION
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T	Trading	Indicates continuous trading is taking place. Order entry and off-book reporting channels are open.
R	Off-book Reporting	Indicates off-book reporting channels are open (continuous trading is unavailable and order entry is not permitted).
O	Opening Auction	Indicates that an opening auction is taking place. Order entry and off-book reporting channels remain open but no automated executions are taking place.
E	Closing Auction	Indicates that a closing auction is taking place. Order entry and off-book reporting channels remain open but no automated executions are taking place.
M	Market Order Imbalance Extension Period	Indicates that a market order imbalance extension period following an auction is taking place. Order entry and off-book reporting channels remain open but no automated executions are taking place.
P	Price Monitoring Extension Period	Indicates that a price monitoring extension period following an auction is taking place. Order entry and off-book reporting channels remain open but no automated executions are taking place.
C	Closed	Indicates that the order book is closed and no matching is taking place. Order entry and off-book trade reporting channels are closed.
S	Suspension	Indicates the Cboe NL Market is in a suspended state. Continuous trading is unavailable, all existing orders are cancelled, order entry and off-book trade reporting is not permitted

N	No Reference Price	Indicates there is no reference price for dark matching available. Dark book matching is unavailable and pegged orders are withdrawn from the market.
V	Volatility Interruption	Volatility Interruption indicates that the static price collar has been reached. This will prevent the acceptance of new aggressive orders that breach the static threshold. For further detail see the Static Price Collar section of the Participant Manual.

2.16. Trading Days

Cboe NL MTF Equities

The Cboe NL MTF Equities will be open for business and offering trading in all Securities where the Listing Market is open on that day. Cboe NL MTF opening hours and holiday schedule can be found on the Website.

Cboe NL RM Equities

The Cboe NL RM Equities will be open for business on all days on which the Cboe NL MTF Equities is open unless otherwise detailed on the Cboe NL RM Equities holiday schedule. Cboe NL RM Equities opening hours and holiday schedule can be found on the Website.

2.17. Markets for which Cboe NL does not consume market data

Cboe NL does not consume market data for the markets listed below. Accordingly, Cboe NL does not support Dark Books, Pegged orders in the Integrated Books and Guarded Midpoint orders in Periodic Auctions Book. The markets are:

- Czech Republic
- Hungary
- Poland
- Germany, Frankfurt Stock Exchange only

Chapter 3: Derivatives

3.1. How Cboe NL Derivatives Works

Cboe NL RM Derivatives

Cboe NL RM Derivatives offers trading on the Options Simple Book, the Futures Simple Book, the Options Complex Book and the Futures Complex Book. Participants may also bring Block Trades that have been negotiated away from Cboe's systems under the Rules.

Detailed descriptions of the Cboe NL RM Derivatives order books and functionality are contained in the Trading Manual. Key features are described here.

Options Simple Book

The Options Simple Book is a central limit order book that matches trades using a pro rata allocation methodology. The order book is opened with an auction. BBO Setter priority overlays are supported in the Options Simple Book.

Automated Improvement Mechanism ("AIM")

AIM Requests for Quote are supported in the Options Simple Order Book. AIM Requests for Quote allow Participants to submit two-sided AIM orders (the client's order and the broker's response) that are then broadcast to other Participants to allow them to participate in execution of the orders. The order originator is rewarded an execution entitlement (percentage of the order) for bringing the order to the exchange.

AIM orders must meet a minimum size requirement. A minimum size and exposure period will apply per product and will be notified by Cboe NL RM Derivatives from time to time.

AIM Requests for Quote will interact with other orders on the book and orders that are submitted in response to an AIM Request for Quote.

Participants that have orders at the best price of the relevant book will receive priority in allocation of AIM Request for Quote executions if they submit responses to AIM Requests for Quote that improve the price of the auction.

Futures Simple Book

The Futures Simple Book is a central limit order book that matches using a price/time allocation methodology. The order book is opened with an auction.

Options Complex Book

The Options Complex Book allows for the execution of Complex Instruments made up of combinations of two or more options series in a single order. Participants can request the creation of Complex Books for specific Complex Instruments if that strategy is not already available. Those orders are capable of execution against other orders in the Complex Book, or against individual

orders in the Options Simple Books, provided that execution is possible in the ratio specified in the complex order. When executing, a pro rata allocation methodology is applied and complex orders have priority over orders in the Options Simple Book. Executions are published against the individual options series, rather than against the relevant Options Complex Book.

The Options Complex Book opens with an auction.

Complex Order Request for Quote (C-RFQ)

C-RFQs take place in the Options Complex Book only and are initiated by single sided orders. The C-RFQ message indicates Event ID, Complex Instrument ID, Size, Side and Price. The event runs for a configurable time period by Product Code. Response Orders can only be executed against the order they are targeting as specified by the Event ID.

Orders participating in C-RFQs are executed at the end of the event period against the best responses and complex orders on the book using pro rata. Before executing against responses or resting orders on the Complex Book, the system checks the individual leg books to see if the C-RFQ order can receive a better price by legging in.

Trading in Option Volatility Strategies is available through C-RFQ

Complex Automated Improvement Mechanism ("C-AIM")

C-AIM Requests for Quote are supported in the Options Complex Book. C-AIM Requests for Quote allow Participants to submit two-sided AIM orders (the client's order and the broker's response) that are then broadcast to other Participants to allow them to participate in execution of the orders. The order originator is rewarded an execution entitlement (percentage of the order) for bringing the order to the exchange.

A minimum size and exposure period will apply and will be notified by Cboe NL from time to time.

C-AIM Requests for Quote will interact with other orders on the Complex Book and orders that are submitted in response to a C-AIM Request for Quote.

Futures Complex Book

The Futures Complex Book allows for the execution of Complex Instruments made up of combinations of two or more futures in a single order. Futures Complex Books will only be available for defined Complex Instruments as published by Cboe NL. Orders on the Futures Complex Book will be capable of execution against other complex orders, or against individual orders in the Futures Simple Books, provided that execution is possible in the ratio specified in the complex order. When executing, a price time allocation methodology will be applied and complex orders will have priority over orders in the Futures Simple Book. Executions will be published against the individual futures, rather than against the relevant Futures Complex Book.

The Futures Complex Book will open with an auction.

Matched Trade Prevention

Matched Trade Prevention (MTP) is used to prevent Participants from trading with their own orders on the opposite side of the book.

Drill-Through Protections for Limit Orders and Market Orders

The system has a Drill-Through check for both Limit and Market Orders. The Drill-Through check will allow the Order to be executed up to a specified drill through price.

Drill-Through Protections will apply to Day and IOC Orders.

Drill-Through Protections will apply to Options Simple and Complex Books as well as Futures Simple and Complex Books.

Limit Order Collar

This feature is designed to provide a hard limit for price protection for the Options Simple and Complex Books and for the Futures Simple and Complex Books. Unlike drill-through, any order limit price that exceeds this collar will be rejected without executing.

The limit order collar check is performed on order entry and modification. It is calculated as a percentage offset from the best price on the other side of the local book. For an incoming buy order, the limit price will be compared to the best ask price on the local book plus a percentage offset (configurable by product) and vice-versa for an incoming sell order. If the limit price is more aggressive than the calculated collar it will be rejected with a reason text of "Limit order too aggressive".

Spike Protection

This protection applies to the Futures Simple Book only. It is designed to protect the market against significant directional changes in prices over time. It has the same behaviour as the Limit Order Collar but the reference price used for the validation is based on a snapshot of the last traded price, taken every n number seconds, configurable by product.

Market Maker Protections

This applies to options only.

Orders identified as taking liquidity are held for a period of time up to 3 milliseconds. This also applies to Stop and Stop Limit orders that are aggressively priced after being triggered. The holding period is configurable by product and is based on where underlying instruments and other options products that have similar characteristics are traded. All orders that would remove liquidity on entry are subject to the delay with the exception of Market Maker orders and quotes which are rejected.

Market Data

Full depth of book market data for Displayed Orders on the Simple and Complex Books is available via the Cboe NL PITCH protocol.

All published executions on the Cboe NL Markets are also available on the market data feed.

Participants may also receive copies of their Orders via the Cboe FIX protocol and may receive copies of their executions via either the Cboe DROP or FIX protocol.

Halting/suspending contracts/strikes/months and ‘closing only’ series

Please refer to Section 3.4 of the Rule Book.

Cboe NL RM Derivatives Closing Price

Index Futures **Daily Settlement Prices** will be calculated using the volume weighted average prices for the index futures product concerned taken over a two-minute period that starts two minutes before the close of continuous trading in the relevant Index Future.

Index Options **Daily Settlement Prices** will be calculated using the Black 76 options pricing model and rounded down taking into account the instrument’s tick size.

Single Stock Options **Daily Settlement Prices** will be calculated using the Cox/Ross/Rubinstein pricing model and rounded down taking into account the instrument’s tick size.

Corporate Actions

Please refer to Section 3.6 of the Rule Book.

3.2. Maximum Order to Trade Ratio Policy

All trading in the Simple and Complex Books is subject to a Maximum Order to Trade Ratio (OTR) policy. Participants are required to adhere to two symbol level thresholds at the end of each trading session; one ‘Number Denominated Ratio’ and one ‘Volume Denominated Ratio’. Please refer to the Website for further information.

Product	Number/Volume Ratio	Floor	Threshold
Index Options	Number Denominated Ratio	1	1,000,000
Index Options	Volume Denominated Ratio	1	5,000,000
Index Futures	Number Denominated Ratio	1	1,000,000
Index Futures	Volume Denominated Ratio	1	5,000,000
Single Stock Options	Number Denominated Ratio	1	1,000,000
Single Stock Options	Volume Denominated Ratio	1	5,000,000

Liquidity Provider Program

A Participant registered and successfully meeting its obligations under a Derivatives Liquidity Provider Program in a given symbol is subject to a Liquidity Provider OTR threshold in the relevant symbol.

Product	Number/Volume Ratio	Floor	Threshold
Index Options	Number Denominated Ratio	1	2,000,000
Index Options	Volume Denominated Ratio	1	10,000,000
Index Futures	Number Denominated Ratio	1	2,000,000
Index Futures	Volume Denominated Ratio	1	10,000,000
Single Stock Options	Number Denominated Ratio	1	2,000,000
Single Stock Options	Volume Denominated Ratio	1	10,000,000

Monitoring and breaches

When monitoring Participants' compliance with the OTR threshold, Cboe NL applies a Floor to the breach calculation, where the floor represents the number of contracts granted per day.

Cboe NL performs monitoring of Participant OTRs on a book-by-book basis over each daily trading session. Participants found to have been trading at a ratio above the threshold at the end of a trading session will be deemed to have been in breach of the OTR, which will result in a notification from Cboe NL.

A fixed penalty fine will be issued by Cboe NL if a Participant breaches the ratio four times or more during a calendar month without any mitigating circumstances (please see Cboe NL's Disciplinary Policy).

3.3. Derivatives Liquidity Provider Program(s)

The Cboe NL Derivatives Liquidity Provider Program(s) ("**DLPP**") has been designed for Participants that wish to provide liquidity in Cboe NL Derivatives in the Simple Books by posting and maintaining

executable quotes with certain set parameters, as outlined below, with the result of providing liquidity on a regular and on-going basis to the market.

Cboe NL will temporarily release Participants from their obligation to provide liquidity on a regular and predictable basis in the case of Exceptional Circumstances. Furthermore, Cboe NL may in its absolute discretion suspend or withdraw the DLPP during Market Disruption.

Alternatively, and specifically for the derivatives market, Cboe NL may ease the maximum spread requirements and/or the minimum quote size requirements if there are stressed market conditions. Cboe NL will notify Participants immediately if this is the case.

In order to be considered a Liquidity Provider pursuant to the DLPP, a Liquidity Provider undertakes to quote in accordance with the requirements set out below.

Derivatives Subject to the DLPP

A Liquidity Provider may elect to add liquidity pursuant to the DLPP in all Derivatives on the Cboe NL RM Derivatives Simple Books. A list of Derivatives offered on the DLPP including information around applicable expirations and strikes (for the Option Products) is available on the Website. From time to time, Cboe NL may change the list of eligible Derivatives and will provide such information on the Website.

Required Size

Where a Program specifies a Required Size a Liquidity Provider must provide reasonable quotations by maintaining quotes, such that the aggregate displayed size of qualifying bids or offers in any relevant Derivative of at least the Required Size, or the equivalent, as determined by Cboe NL, in the traded currency of the relevant Derivative, in order for such quotations to qualify as quotations satisfying the requirements of the DLPP.

Specified Spread

A Liquidity Provider is required to provide continuous two-way prices up to a maximum spread as defined in the DLPP documentation with respect to each relevant Derivative, in order to qualify as a quotation satisfying the requirements of the DLPP.

Required Time

The DLPP is active in the Opening Auction Period, the Continuous Trading Period and the Daily Settlement Period (for the Future Products) respectively Closing Period (for the Option Products) as described in the DLPP documentation, provided, however, the program shall not be active on the Cboe NL RM Derivatives (i) during a suspension from trading by Cboe NL, or where a Regulator has instructed such suspension (collectively, a “halt”), until after the first transaction in the relevant Derivative following such halt, and (ii) in a relevant Derivative where there is a public holiday.

A Liquidity Provider must be present on the Cboe NL RM Derivatives Simple Books for the relevant Derivative(s) consistent with the Required Size, the Specified Price and for the Required Time. Non-Displayed Orders entered by the Liquidity Provider do not qualify towards a Liquidity Provider’s obligations under the Liquidity Provider Program.

Liquidity Provision Flag

All orders submitted in accordance with Liquidity Provider Programs must be flagged as liquidity provision activity in accordance with Rule 3.2.11.

DLPP Parameters

For the purpose of the DLPP, the Required Size, Expirations, Strikes, Maximum Spread and Required Time are detailed in separate DLPP documentation that is published on the Website.

Withdrawal from DLPP

A Liquidity Provider may voluntarily terminate its status as a DLPP by providing Cboe NL with a written notice of such termination. Notifications should be made to Cboe NL Participant Services by e-mail or at Cboe NL's registered office.

A Liquidity Provider may temporarily withdraw its status as a Liquidity Provider in any Cboe Derivative for compliance reasons, or if it is experiencing technical or operational difficulties. In such circumstances, the Compliance Department of the Liquidity Provider must notify Participant Services by email at ParticipantServices@cboe.com of the temporary withdrawal and the reasons for it. Cboe NL may terminate a Liquidity Provider's participation in the DLPP if such Liquidity Provider demonstrates a frequent need to withdraw due to compliance, technical or operational problems.

N.B. It is a Participant's responsibility to ensure that it can continue to comply with Article 1 of Commission Delegated Regulation (EU) 2017/578 ("RTS 8") following withdrawal from any Liquidity Provider Program.

Fees

DLPP Incentives are described in the DLPP documentation.

3.4. Trade Confirmations

Cboe NL will confirm Orders executed through the Cboe NL Markets via the Participant's order entry connection. The price, quantity and the nature of the transaction (buy or sell) will be made immediately available after an Order has been executed. Any discrepancy between the Order and confirmation should be immediately reported to Cboe NL Trade Desk (+31 (0)20 299 6801). After a Participant has notified Cboe NL by telephone, a written notification must be made by the Participant to Cboe NL within thirty (30) minutes of the Order in question by email to TradeDeskEurope@cboe.com. The notification should include the name of the Participant, time(s) of the transaction(s), the symbol(s), the quantity(ies), the side (bought or sold) and the price(s).

Any erroneous transactions will be subject to the Erroneous Transaction Policy.

3.5. CEDX - Erroneous Transaction Policy – Options and Futures

In accordance with Rule 3.2.15 for Derivatives of the Rule Book, where a Participant reasonably believes that a transaction was executed on a Cboe NL Market or any other services as a result of an

erroneously submitted Order, that Participant should in the first instance immediately telephone Cboe NL Market Supervision (+44 20 7012 8906; +31 20 299 6801) to request that Cboe NL review the transaction. Once a request is submitted, it may not be withdrawn without the consent of the counterparty(ies) to the transaction. After a Participant has notified Cboe NL by telephone, confirmation of this request must be made by the Participant to tradereviewEU@cboe.com within 30 minutes of the execution of the Order in question and no later than 17:30 CET for options and 19:00 CET for futures.

Any request received within 15 minutes of market close will be dealt with on a best effort basis, however this is likely to require action by the relevant CCP(s) rather than by Cboe NL.

The e-mail request must contain the following details:

Participant	
Product	
Exchange Execution ID(s)	
Why the transaction is considered erroneous	

In accordance with Rule 3.2.16 for Derivatives of the Rule Book, Cboe NL may in its sole discretion review any transaction which it reasonably believes was executed as a result of an erroneously submitted Order irrespective of whether any parties to the transaction have requested Cboe NL to review the transaction.

As soon as practicable, Cboe NL will notify all parties to any transaction being reviewed under Rule 3.2.15 or 3.2.16 for Derivatives of the Rule Book. The parties to the transaction shall provide any supporting information as may reasonably be requested by Cboe NL to aid the resolution of the matter in such format and within such time as Cboe NL may reasonably specify in its request. Cboe NL will not disclose the name of the counterparty to the trade unless each of them waives their right to anonymity.

Participants must provide Cboe NL as soon as reasonably practical with any information requested by Cboe NL about a potentially erroneous transaction (in accordance with 3.2.15 or 3.2.16 for Derivatives of the Rule Book) so that the matter can be resolved during the same trading day before the end of the day cut-off imposed by the relevant Central Counterparty(ies) for processing transactions.

When reviewing a transaction in accordance with Rule 3.2.15 or 3.2.16 for Derivatives of the Rule Book to determine whether a transaction is clearly erroneous, Cboe NL will consider the importance of preserving the integrity of the Cboe NL Markets, including the importance of preserving certainty of transactions executed on the Cboe NL Markets. Cboe NL will review every case on its own merits and may consider, without limit, any of the following criteria:

- i. the price at which the Order was executed, including, where relevant, whether the price at which the Order was executed was too far away from the Reference Price;
- ii. information gained from the relevant Participants;
- iii. Cboe NL's analysis of relevant market data;
- iv. Cboe NL's analysis of relevant market events;
- v. any system errors and/or failures that impact market integrity;

- vi. any Negotiated Transactions which do not comply with the pricing criteria defined in the Cboe NL Rule Book; and
- vii. any Negotiated Transactions which have been notified to Cboe NL using a Matching Exchange Trade Report and for which no Matching Action Confirmation has been received.

For the Cboe NL RM Derivatives, a transaction is considered erroneous if its price deviates from the reference price by more than the Cancellation Threshold;

Determination of the Reference Price

The Reference Price for the Cboe NL RM Derivatives is determined considering, without limit, any of the following criteria:

- i. Any transaction price and/or quotes in the relevant instrument that took place before and after the trade(s) in question;
- ii. Bid and offer price levels provided, upon request, by other Cboe NL RM Derivatives market participants;
- iii. The price of an instrument traded on another regulated market or a multilateral trading facility;
- iv. An assessment by Cboe on the basis of the underlying index or instrument, the expiry date and other relevant data available to the market.

Determination of the Cancellation Thresholds for Options

The Cancellation Threshold is equal to the Maximum Spread requirement (under the Liquidity Provision program) for each instrument. The threshold price shall be determined by increasing or decreasing the Reference Price by a value equal to the Maximum Spread.

The Maximum Spread is set in accordance with the *Liquidity Provision and Regulatory Market Making Programmes for Cboe Europe Derivatives* and can be found on our website .

For the trades accomplished during the last trading day and during a fast market period, the Cancellation Thresholds for Options are doubled.

Determination of the Cancellation Thresholds for Futures

The Cancellation Threshold shall be determined by increasing or decreasing the Reference Price by a value equal to 2%.

As soon as practicable, Cboe NL will notify all parties to any transaction being reviewed under Rule 3.2.15 or 3.2.16 for Derivatives of the Rule Book whether the transaction(s) will stand or be cancelled by email.

3.6. Currencies Quoted

Local currency for each derivative: GBX, GBP, EUR, CHF

3.7. Eligible Derivatives

A list of tradeable Derivatives can be found in the Contract Specifications on the Website.

3.8. Minimum and Maximum Order Sizes

Minimum Order Size:	1 contract
Maximum Order Size:	Please refer to Section 2.3 of the Web Portals Risk Controls Specification (https://cdn.cboe.com/resources/participant_resources/Cboe_Europe_Risk_Web_Pre_Trade.pdf) which sets out the default value.

3.9. Clearing and Settlement

All Participants must have an appropriate clearing relationship with a Central Counterparty either directly or through a General Clearing Member. A list of eligible Central Counterparties is on the Website.

The Exchange Delivery Settlement Price for index futures and options will be determined on the Last Trading Day. The EDSP is calculated by Cboe NL and is determined by averaging prices every 30th second over a 10 minute time period. The result is rounded to one decimal place. The scheduled timing of the EDSP for all index Futures and Options is published on the Website.

The Exchange Delivery Settlement Price for single stock options will be determined on the Last Trading Day. The EDSP is calculated by Cboe NL as the closing price on the primary market. The scheduled timing of the EDSP for all single stock options is published on the Website.

3.10. Time in Force Values

The Options and Futures Simple Books will support the following TIF instructions. A further description is included in section 1.5 of the Trading Manual:

- Day
- IOC
- FOK
- OPG
- GTC
- GTD

The Options Complex Book will support the above time in force values with the exception of FOK.

3.11. Minimum Tick Increment

Tick increments for each Derivative or class of Derivative are described in the Contract Specifications.

For Options, there will be specific premium based break points where the series may trade in different tick increments when trading above or below specific price thresholds.

Orders entered with invalid tick sizes will be rejected.

3.12. Order and Trade Types

Order types

Cboe NL RM Derivatives accepts the following order types. A further description is included in section 1.4 of the Trading Manual.

- Limit order
- Market order
- Stop Loss order
- Stop Limit order

Trade types

Block Trades

A Block Trade feature is available for Participants that want to cross large size orders without exposing the order to other Participants for price improvement. For details, please refer to section 1.10 of the Trading Manual.

Delayed publication

Block Trades

Participants have the possibility to defer publication for Block Trades above an exchange defined threshold.

Responses to C-RFQs

Participants have the possibility to defer publication for responses to C-RFQs above an exchange defined threshold.

3.13. Order Management

No guarantee is made about system performance, especially during periods of high volatility and Order traffic. However, the Cboe NL system was designed to handle at least 5,000 incoming messages per second, per port, while providing acceptable Order acknowledgement times. Participants planning to send Orders at a higher rate than 5,000 Orders per second should make

arrangements to connect to multiple ports or quote ports. Any incoming Orders in excess of 5,000 messages per second per non-quote port will be rejected.

3.14. Technical Requirements

The technology and infrastructure requirements which are necessary to connect to and operate on the Cboe NL RM Derivatives Markets, including connectivity requirements, FIX specification, BOE specification and market data specifications are published and regularly updated on the Website.

Cboe Europe publishes all connectivity options in the **Cboe Connectivity Manual**. Participants are responsible for choosing their telecommunications provider and arranging connectivity and for complying with the requirements as specified by Cboe NL from time to time.

3.15. Trading Hours

The trading hours of Cboe NL Derivatives are published on the Website and may not be the same as other markets. Changes to trading hours will be notified to participants at a reasonable time in advance of such changes.

Trading phases in market data.

Indicator	Trading Phase	Description
Q	Queuing	An auction phase where orders can be submitted but no execution takes place.
O	Opening	An auction phase where uncrossing takes place.
T	Trading	Indicates continuous trading is taking place. Order entry and off-book reporting channels are open.
H	Halted	Indicates that a complex future goes into threshold width exceeded state.
S	Suspension	Indicates the Cboe NL Market is in a suspended state. Continuous trading is unavailable, all existing orders are cancelled, order entry and off-book trade reporting is not permitted
C	Closed	Indicates that the order book is closed and no matching is taking place. Order entry and off-book trade reporting channels are closed.

3.16. Trading Days

The Cboe NL RM Derivatives will be open for business on all days unless otherwise detailed on the Cboe NL holiday schedule which can be found on the Website.

Last trading day

The last trading day is defined in the Contract Specification.