

Electronic Trading FAQs

Aligned with AFME TIA Due Diligence Questionnaire
Equities Electronic Trading, EMEA

For use by Barclays' institutional clients only. Not suitable for retail clients

February 2026

The Investment Association Association for Financial Markets in Europe

Electronic Trading Equities Questionnaire Working Group EEA Equities Electronic Order Handling Questionnaire

Preamble:

- This Equities Electronic Order Handling Questionnaire ('Questionnaire') has been created through the collaborative effort of the members of The Investment Association (IA) and the Association for Financial Markets in Europe (AFME) ('Associations').
- The purpose of the Questionnaire is to establish a common, non-exhaustive, framework for the request for information from clients to their electronic trading service providers.
- The scope of the Questionnaire is limited to equity/equity-like European Economic Area ('EEA') securities which are traded through a firm based in the EEA that is a regulated firm under the Markets in Financial Instruments Directive 2014/65 EU (MiFID) and associated national laws, unless otherwise specified.
- The responses refer to the securities mentioned above which are traded through electronic trading systems only.
- The information provided in response to this questionnaire is strictly confidential and for the benefit of the recipient firm and its affiliates only.

- The responses to these questions are valid for professional clients, unless otherwise specified in the specific response.
- The information is valid at the point in time when it is provided.
- The liability regime for the Questionnaire is established by the Disclaimer included in Annex II, which is provided by the responding electronic trading service provider. Neither Association makes any representation or warranty, express or implied, in relation to the Questionnaire, including without limitation as to its suitability, completeness or fitness for purpose. Under no circumstances shall either of the Associations be liable for any loss or damage, whether direct or indirect, arising out of or in connection with the use of this Questionnaire.

AFME: represents a broad array of European and global participants in the wholesale financial markets. Its members comprise pan-EU and global banks as well as key regional banks, brokers, law firms, investors, and other financial market participants. We advocate stable, competitive, sustainable European financial markets that support economic growth and benefit society.

AFME is the European member of the Global Financial Markets Association (GFMA) a global alliance with the Securities Industry and Financial Markets Association (SIFMA) in the US, and the Asia Securities Industry and Financial Markets Association (ASIFMA) in Asia.

AFME is listed on the EU Register of Interest Representatives, registration number: 65110063986-76.

The Investment Association: represents investment managers. It has over 240 members who manage more than GBP 6.9 trillion for clients around the world, helping them to achieve their financial goals. Its aim is to make investment better for clients, companies and the economy so that everyone prospers.

The Investment Association is listed on the EU Register of Interest Representatives, registration number: 5437826103-53.

QUESTIONNAIRE:

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This document relates to the Barclays EMEA Electronic Trading platform, including trades executed via our Dynamic Router, Algorithms and Barclays' Systematic Internaliser services. This document does not include references to the Quantitative Prime Services platform or functionality¹.

A. General:

1. Please list all countries that are covered by the responses to the Questionnaire.

This questionnaire covers Electronic trading with Barclays Capital Securities Limited and Barclays Bank Ireland PLC ('Barclays'), our UK and EU regulated entities for trading cash equity and cash equity-like securities listed on a venue in the following countries:

Austria	Netherlands
Belgium	Norway
Czech Republic	Poland
Denmark	Portugal
Finland	Russia
France	Saudi Arabia
Germany	South Africa
Greece	Spain
Hungary	Sweden
Ireland	Switzerland
Israel	Turkey
Italy	United Kingdom

¹ Please note that as part of our broader electronic offering, Barclays also offers Quantitative Prime Services (QPS), providing clients with one tool for trade execution, financing and reporting, with built-in risk management.

2. Are client orders advertised on the day of trading? (Y/N)

No, client orders sent to Barclays Electronic Trading are not sent out or advertised with Indications of Interest (IOIs). Please refer to Q.71 of section C in relation to the use of Conditional Orders.

3. If client orders are advertised on the day of trading, please explain the procedures around this?

Not applicable

4. In relation to how the firm's orders are advertised please answer Q.1 of Annex 1

5. Are client trades advertised on the day of trading? (Y/N)

Yes, we advertise our executed electronic volumes in near real-time via Bloomberg IOIA.

6. If client trades are advertised on the day of trading, please explain the procedures around this?

Symbol and aggregated executed volume data is advertised via Bloomberg IOIA and is available for Bloomberg users utilising this function. Advertising is delayed by 15 minutes and does not include the executed volume of clients who have opted out. Users may not view Barclays SI volume separate from Barclays' electronic volumes submitted via Bloomberg IOIA.

7. In relation to how the firm's trades are advertised, please answer Q.2, Annex 1

8. Do you operate tiering in determining which clients see which IOIs? (Y/N)

No

9. If you operate tiering in determining which clients see which IOIs, please answer Q.3 of Annex 1.

Not applicable

B. Best Execution and Venue Selection:

10. Please provide a summary of your best execution policy and any further detail about how you deliver best execution.

A summary of our best execution policy, as well as reports published under RTS27 and RTS28 of MiFID II regulations can be found on our centralised disclosure website:

<https://www.investmentbank.barclays.com/disclosures.html>

11. Do you have an in-house algorithmic trading solution, or do you utilise (white label) third-party products?

Our firm primarily uses Barclays' own proprietary algorithms. In back-up situations we also use algorithms from a vendor.

12. If you utilise third party products, please describe which ones, and how they are used

In back-up situations, we can utilise a suite of algorithms and the Smart Order Routing (SOR) offered by third-party vendors.

13. Is your Smart Order Router (SOR) developed in-house? (Y/N)

Yes. We refer to it as the "Dynamic Router".

14. If your SOR is not developed in-house, please explain what customisation you have over its behaviour logic?

Not applicable

15. Please provide a categorised list of all execution venues (RMs, MTFs, SIs, market makers, other liquidity providers) that your algorithmic strategies and/or SOR currently access.

For details of existing and planned connectivity, please contact your Barclays sales representative for our latest ET Venue Access document.

16. List all the execution venues you access where you are not a member and access via a third party or via affiliates.

For details of existing and planned connectivity, please contact your Barclays sales representative for our latest ET Venue Access document.

17. Please explain how your SOR controls the timing of child orders when sending orders to multiple venues.

Child orders are issued in waves. In order to minimise information leakage, child orders are sequenced to manage the latency caused by geographical distances between venues in a given wave.

18. Describe how you monitor that your SOR delivers best execution.

Performance evaluation of our algorithms is a continuous process. Barclays has tools that help to monitor electronic trading and algorithms on a real-time basis, to identify any issues that may impact Barclays' ability to deliver best execution.

In addition, Barclays reviews the performance of its Dynamic Router and the performance of executions versus their relevant benchmarks, which include, but are not limited to, average slippage from the relevant benchmark (e.g., VWAP and arrival price).

Performance is also evaluated against other factors such as market capitalisations, spreads, durations and order sizes. These performance metrics are assessed on an aggregate basis across client orders by the EMEA Equities Best Execution Forum ("the Forum"). The Forum meets regularly to examine execution data/analysis and market data/developments for the purpose of assessing whether Barclays has met its best execution obligations and determine whether changes in the handling and routing of Client Orders are warranted.

19. Please describe some of the factors you consider when evaluating the likelihood of execution on a venue when choosing which venue to route orders to

Please refer to the answer provided for Q.21.

20. Please describe how your SOR routes orders (including but not limited to timing, sequencing and price reversion).

Barclays' Dynamic Router is the firm's primary vehicle by which Barclays' electronic orders are placed in the market for execution. When an order is marketable, the Dynamic Router will sweep and source liquidity across enabled displayed and non-displayed Trading Venues and for clients of BCSL and LX, with the general objective of maximising fill rates and minimising information leakage.

Where a child order is eligible for Child CapComm™, orders from the algo which are intended to be filled at the far touch are automatically facilitated by Barclays SI. Where a CapComm slice is less than or equal to the Standard Market Size (SMS), executions can occur either at the Barclays SI Quote or, in justified cases, at a better price than the Barclays SI quote, provided that the price falls within a public range close to market conditions. For orders greater than SMS, executions can occur at, or within, the European Best Bid Offer (EBBO).

When an order is not marketable, the Dynamic Router will post the order on displayed venues to maximise spread capture. The Dynamic Router can also be used to route directed orders to specific venues. Certain routing customisations are available on request (for example, venue selections that give a greater consideration to factors such as execution cost).

21. Specify how your SOR accesses internal and external sources of liquidity, and if you preference any source.

i. Posting to displayed Trading Venues and LX:

When attempting to capture the spread, the Dynamic Router considers factors including trade rates and queue depths. For orders that have originated from a Barclays algorithm (including the Dynamic Router), default routing options are limited to displayed trading venues and LX.

It should be noted that scheduled intraday auctions are considered for displayed posting. Displayed periodic auctions can optionally be included for routing consideration.

ii. Accessing non-displayed liquidity:

The Dynamic Router is used for posting to non-displayed venues, periodic auctions and LX when intending to execute at mid-point, though it can be configured to target the near or far touch.

When posting to multiple trading venues and LX, the Dynamic Router takes into consideration symbol-specific market share to determine the fill probability, and based on that, determines the quantity to allocate to each venue.

The Dynamic Router has Dynamic Minimum Quantity (DMQ) logic designed to detect corresponding impact on displayed trading venues following an execution on a non-displayed trading venue, periodic auction or LX. This logic may lead the Dynamic Router to dynamically adjust the minimum size it uses on a given symbol, at a given point in time, to place subsequent orders on non-displayed trading venues, or LX, to mitigate information leakage.

Additionally, the Dynamic Router undertakes periodic liquidity exploration cycles across non-displayed venues, periodic auctions and LX, taking into consideration factors including symbol-specific market share & real-time information to assess trading venue selection and sequencing. Where the LX IOI feed is integrated in the Dynamic Router, and is indicating available liquidity, LX is prioritised ahead of other non-displayed venues during liquidity exploration cycles.

The Dynamic Router can also consider eligible Electronic Liquidity Providers (ELP SIs) quotes at mid or better and take available liquidity. Where the Dynamic Router finds equal pricing across more than one ELP SI feed, it will use factors including historic mark-out profiles of the ELP SIs and quote size in the routing decision.

For a full list of mid-point customisation options or more details on Barclays' algorithms, please contact your Barclays sales representative.

iii. Sweeping to all Trading Venues, LX and CapComm:

When intending to cross the spread, the Dynamic Router considers displayed trading venues, non-displayed trading venues, Electronic Liquidity Providers (ELP SIs) and LX (not currently available for BBI clients). When determining which displayed venues to route to, price is the overriding factor. When sweeping, the Dynamic Router can also consider non-displayed trading venues based on configuration settings that are enabled.

Where routing orders across multiple trading venues with the same price, the Dynamic Router will take into account the probability of fill, by looking at the historic market share for the instrument, quantity available on the venue order book, and the cost of execution.

If the price available in Child CapComm and LX is equal to, or better than, other displayed trading venues or ELP SIs, we will access LX and Child CapComm (in that priority), before accessing liquidity on displayed trading venues or ELP SIs.

Access to ELP SI liquidity is enabled in the Dynamic Router subject to factors including Client's venue preferences and product type. Different product types e.g., Low latency BSOR, Standard BSOR, Aggressive Algos (e.g., Rapid), Passive Algos (e.g., VWAP) may have access to different set of ELP SI feeds based on their relative urgency. Lower urgency flow may have access to additional set of ELP SI Feeds.

The Dynamic Router can consider eligible ELP SI quotes and take liquidity if it represents a comparable or improved opportunity (e.g., price improvement, probability of fill) vs displayed trading venues. Where the Dynamic Router finds equal pricing across more than one ELP SI feed, it will use factors including historic mark-out profiles of the ELP SIs and quote size in the routing decision.

Please contact your Barclays sales representative for more information.

22. Do you delegate any routing decisions to third parties?

Barclays maintains full control of order routing decisions and does not delegate routing decisions to third parties. However, in back-up situations we also use algorithms from a vendor.

23. Do you route orders to Systematic Internalisers (SIs) and will this be house or client flow?

By default, orders are eligible to be routed to ELP SIs where connectivity is established, unless disabled through client venue preferences. Client details are not shared with ELP SIs without consent. For details of existing and planned ELP SI connectivity, please contact your Barclays sales representative for our latest ET Venue Access document.

In addition, orders enabled for LX and CapComm are eligible to execute in Barclays SI. Please note, LX is not currently available for BBI clients. For further details on Barclays SI Services, please see Annex II.

24. If you intend to connect to SIs, under what circumstances might orders be routed to external SI liquidity?

Please see Question 43 for venue selection criteria. Price is the overriding factor when determining routing to external ELP SIs. By default, external ELP SIs are enabled for clients, unless opted out.

25. Do you intend to connect to SIs, which you do not currently route to, by end of the current calendar year?

Clients can choose which SIs to interact with by speaking to their Barclays sales representative. For details of existing and planned connectivity, please contact your Barclays sales representative for our latest Venue Access document.

26. To what extent will clients be able to control onward routing to SIs by both your algo and SOR?

Once connectivity has been established, routing to Barclays own SI or external SIs can be enabled or disabled at the client's discretion. This can be requested via SPECS or through a Sales representative. SPECS is an online portal designed to provide clients with visibility into their order handling, risk and venue settings, so that they can verify them, or request modifications as needed. Please contact your Barclays sales representative for any additional information.

27. Does your firm internally match two cash orders?

There is no systematic matched principal activity within Barclays SI using low touch channels. Traditional high touch client crosses remain possible.

28. Do you provide industry standard values for tag 29, 30 and 851 for each child order execution, and if not please explain why? (Y/N)

Yes

29. If not, please explain why not?

Not applicable

30. Post the implementation of MiFID II, which new FIX tags will you offer or require from your clients and please confirm which ones are currently sent back to our Firm?

Please contact your Barclays sales representative for our latest FIX Rules of Engagement document.

31. If you trade with another firm's SI do you provide that MIC Code in Tag 30 rather than the generic XOFF?

Once connectivity has been established, we will look to provide the officially registered MIC.

32. If you do not use MIC codes please explain why and provide a list of codes used.

Not applicable

33. Which of the venues that you access aggregate orders to fulfil minimum quantity?

The venues that Barclays' Equities Electronic Trading business in EMEA access that aggregate orders to fulfil minimum quantity requirements are:

Cboe BXE

Cboe CXE

Cboe DXE

Sigma X MTF

Please note that the answer above applies to both UK and EU venues where they exist.

34. If you access venues which may aggregate competing orders to fulfil minimum quantity, what impact might this have on your order routing decisions?

The functionality of aggregation does not impact Barclays routing.

35. Do clients have the option to opt out of the functionality described in Q. 33, or to opt-out of the firm aggregating their orders to fulfil minimum quantity?

No

36. If clients have the option of opting out of the functionality of aggregating orders to fulfil minimum quantity, please answer Q.4 of Annex relating to how the firm is treated.

N/A

37. Does any venue you access receive or transmit order information to other destinations or participants via liquidity indications or IOIs?

Barclays' algorithms use conditional orders to access LX and conditional venues. This process involves the outbound transmission of IOIs to these venues with the aim of a corresponding invitation to firm-up where contra liquidity is identified.

For details of existing conditional venues supported, please contact your Barclays sales representative for our latest Venue Access document. Please note, Barclays does not transmit or receive liquidity indications or IOIs from electronic market makers.

38. Please describe your minimum fill size criteria – is there a default?

When trading in non-displayed liquidity sources the Dynamic Router will, by default, include minimum fill size on orders, which is set dynamically. Clients can request their own value to be set across all destinations or can have destination-specific limits. The limits set can be driven off either quantity or notional values.

The Dynamic Router has Dynamic Minimum Quantity (DMQ) logic designed to detect corresponding impact on displayed trading venues following an execution on a non-displayed trading venue, periodic auction or LX. This logic may lead the Dynamic Router to dynamically

adjust the minimum size it uses on a given symbol, at a given point in time, to place subsequent orders on non-displayed trading venues or LX, to mitigate information leakage. Please contact your Barclays sales representative for more information.

39. Are your minimum fill size criteria dynamic per venue?

Yes

40. Are minimum fill size criteria customisable per client request?

Yes

41. If minimum fill size criteria are customisable per client request, please answer Q.5 of Annex 1 in relation to how our firm is treated.

42. Are there venues you connect to but where your firm either do not post or do not take liquidity?

Barclays Algorithms and Dynamic Router cannot post liquidity to ELP SIs or take liquidity from Periodic Auctions (restricted by trading market structure).

43. Please explain the process for enabling or disabling connectivity to a venue.

The venues we access by default are subject to regular review at the periodic Equities Best Execution Forum, where market structure-related developments are considered, and all available European venues assessed to ensure that the accessible venues remain appropriate.

When considering whether to connect to an additional venue, a number of factors may be considered including, but not limited to, market share. The venues we access via our algorithms or Dynamic Router can also be configured and customised as per client's requests.

44. Please explain how frequently connectivity to venues is enabled or disabled from the list of venues your firm trades on.

The frequency of enabling or disabling connectivity venues is ad-hoc and dependent on assessing the materiality of any market structure changes and the outcome of the process outlined in Q43.

45. At what point would your client be notified of a venue being switched on or off? In relation to how the firm is notified, please answer Q.6 of Annex 1.

To the extent Barclays makes any changes which we determine are material, we will communicate those changes to clients as appropriate.

46. Can venues be switched on or off per individual client request?

Yes

47. If you neither add nor remove venues, please explain why.

Not applicable

48. Is your SOR contingent on primary market availability?

Barclays will continue routing to other venues if it loses its market connection to the primary exchange. If market data for the primary exchange is not available, either due to an exchange issue or a Barclays issue, the Dynamic Router will cease trading as the result of an 'unknown market state' for the symbols impacted.

49. Have you ceased trading on a venue for a period of greater than 1 month in response to execution quality concerns in the last 5 years?

No

50. If you have ceased trading on a venue on a temporary or permanent basis in response to execution quality concerns in the last 5 years, please explain why.

Not applicable

51. Do you in any way preference one venue over another?

Please refer to Q.21 in section B.

52. If you in any way preference one venue over another, please explain why.

Please refer to Q.21 in section B for an explanation of how routing decisions are made.

53. Do you have any ownership stakes or interests in trading venues which may cause a conflict with your routing practices and decisions.

Our routing practices and decisions are not influenced by any ownership stakes or interests in trading venues. Please refer to our Conflicts of Interest Policy Summary: <https://www.investmentbank.barclays.com/disclosures/N2FcdRWQo4/conflicts-of-interest-policy-summary.html>

54. How do you monitor latency of order routing and market data connectivity to exchanges?

Barclays has proprietary, real-time tools that are used to monitor all clients and exchange connectivity. Real-time alerts are generated by these tools to allow the teams to respond appropriately.

For market data, if vendor alerting is not provided by a market data provider, then Barclays will also run internal monitoring on the market data feed. Where Barclays has multiple data sources for a market, Barclays Equities Electronic Trading EMEA runs a monitoring tool to compare market data feeds against each other.

55. Please explain how latency of order routing and market data connectivity to exchanges impact routing?

From our monitoring outlined in Q.54 of Section B, if an issue is detected then Barclays can remove a venue from the Dynamic Router, or to change how Barclays routes to market which may include using a broker connection.

If latency is detected on orders from an internal component, then, depending on where the issue is detected, Barclays can route orders to additional algorithmic and Dynamic Router instances.

If market data issues are detected for major markets, Barclays can switch to a different market data source for Barclays Algorithms and the Dynamic Router.

56. How do you ensure prompt processing of incoming electronically transmitted orders received by your desks?

Barclays looks to operate so that its systems have headroom capacity from previously seen maximums, thereby minimising the risk of order-processing delays. To help prevent a single client impacting the system, Barclays employs throttling, which restricts the maximum number of orders a client can send within a given time period.

57. Please describe how you regularly maintain analysis of client "tiers" and how often changes are made.

Barclays does not tier participants in its order routing decisions.

58. Do you place any restrictions or caps on the percentage of your client flow that is eligible for routing to a particular venue?

No

59. If you place any restrictions or caps on the percentage of your client flow that is eligible for routing to a particular venue, what are the determining factors for those restrictions or caps?

Not applicable

C. Algorithmic Trading:

60. List all the algorithmic strategies currently available to the client, including material drivers, and briefly describe their purpose. Please attach brochure/provide link.

Please contact your Barclays sales representative for our latest EMEA Algorithmic Trading Strategies guide.

61. Do your algorithmic strategies reference primary or consolidated volume data?

Barclays' algorithms reference the consolidated European Best Bid Offer (EBBO) volume data by default, accounting for eligible venues, as determined by the applicable Share Trading Obligation (STO) and client instructions. Clients can specify a preference to reference primary volume only. To change your setting, please contact your Barclays Sales representative.

62. How do you calculate consolidated volume data? What do you include and exclude?

Where possible, we consolidate the fungible, on-exchange and electronically accessible displayed volume for each stock, across the primary market of listing and the main displayed MTFs (Aquis MTF, Cboe Europe, Turquoise) based upon the eligible venues as determined by the applicable Share Trading Obligation (STO) and client instructions. We exclude from our volume tracking transactions which we classify as "block transactions" based on our internal calculations.

63. Do you offer trading algorithm customisation? (Y/N)

Yes, please contact your Barclays Sales representative for further customisation details.

64. Do high-touch traders use the same trading algorithms listed under Q. 60 when executing client orders? (Y/N)

Yes. Barclays high-touch traders who execute customer orders utilise the same suite of algorithms as those made available to clients. When enhancements or new functionality are introduced, these are first piloted and validated by high-touch traders on internal flow before rollout to our wider client base.

65. If your high-touch traders do not use the same trading algorithms listed under Question 60 when executing client orders, please elaborate the differences.

Not applicable

66. Without client customisation request, do any of your algorithms in any way behave differently based on commission rates or the client? (Y/N)

No

67. Within algorithmic trading, do you offer different speeds to market depending on the client type, commission paid or volume traded? (Y/N)

No

68. If yes, please explain.

Not applicable

69. Please describe the inbuilt controls that would protect the client from external negative events (flash crash, fat-fingers by 3rd parties etc.) and how these differ between strategies/material drivers (internal negative events covered in risk & controls)

Barclays employs various techniques and controls, which, in combination, help to optimise algorithmic performance and protect client orders from negative external events.

Barclays continues to enhance its electronic controls on an ongoing basis. Some examples of existing algorithmic controls and/or techniques are:

- Dynamic scheduling and volume forecasting in the form of intraday real-time volume adjustments to react to deviations from the typical volume profiles.
- Posting control which evaluates top-of-book order depth against issued child order quantity, to prevent relatively oversized passive orders and potential signalling to the market.
- "Chase protection" in the form of block exclusion logic for all participation tracking and symbol-specific price information which prevent algorithms from immediately chasing new price levels.
- Randomisation in terms of the release time of passive and aggressive child order placement, and in terms of child order sizes.
- Rolling impact windows, where trailing stock prices over a time horizon are used by the algorithms to limit aggressive participation in the market when there are large intermittent price dislocations.
- The Dynamic Router employs active limit price logic, which sets a limit price on orders being worked on non-displayed venues, to prevent execution at sub-optimal prices.
- Maximum Percentage of Volume, preventing the algorithms from being more than a certain percentage of the market.
- Dynamically calculated price collars prevent participation in adverse price movements.
- Additionally, we implement real-time daily financial, trading and, where relevant, position limits. These include, but are not limited to, gross and net notional, gross and net quantity (shares) as well as a number of real-time metrics to monitor client behaviour e.g., order to execution ratio, repetitive orders.

70. Does your firm support inbound and outbound conditional order types? (Y/N)

Barclays' algorithms do not accept inbound and outbound conditional order types directly from clients. However, inbound and outbound conditional order types across selected Trading Venues and LX are supported within the suite of algorithmic tools. Please see Question 71 for further details.

71. If your firm supports inbound and outbound conditional order types, in what circumstances are they used?

Barclays algos and the Dynamic Router can place and interact with conditional orders (including LX), when the order size meets the minimum venue requirements, provided that the instrument is tradable on the venue, and the venue is eligible according to client venue preferences, however clients are unable to directly submit conditional orders to LX or external venues. By default, LX is sequenced ahead of other venues.

72. Explain the process for maintaining and improving an algorithmic strategy or SOR's performance, including how regularly you make changes to the variables/factors driving the algorithmic strategy?

Algorithmic performance is evaluated against several benchmarks which include, but are not limited to, average slippage from the relevant benchmark (e.g., VWAP and arrival price). Performance is also evaluated against other factors such as market capitalisations, spreads, durations and order sizes.

For actively traded stocks, our algorithms use stock-specific analytics in the form of volume profiles, average spreads, quote depth and volatility estimates. This data is based on historical rolling averages. On days when exceptional volumes are expected (e.g., stock-specific calendar or index events), customised stock-specific volume profile adjustments may optionally be configured in the algorithms. For further information, please contact your Barclays Sales representative.

The Dynamic Router performance is evaluated against its benchmarks which include, but are not limited to, the ability to achieve expected price, liquidity capture and hit rate. Algorithmic and Dynamic Router logic changes relating to performance enhancements, client customisations and market structure-related developments are implemented on an ongoing basis as appropriate.

In addition, in the interests of enhancing execution performance for clients, Barclays may undertake randomised performance testing of specific algorithmic strategies or features periodically, to ensure that they are functioning appropriately. The application of certain features and algorithms may vary while subject to such performance testing.

Please note that, save as stated above, the application of any testing period will not otherwise affect each client's selections, in respect of its algo and venue settings.

73. Explain the process for communicating material changes of variables / factors driving the algorithmic strategy / SOR to clients. In which circumstances would you communicate changes?

We review ongoing developments to our algorithms and Dynamic Router and will communicate any changes which we determine are material to our clients. Communication can be through email communications and/or client meetings.

D. Liquidity Sources:

74. Do you operate an MTF? (Y/N) (If not, please go to Q. 83)

No

75. How does your MTF measure the best bid/offer and any other reference price or benchmark?

Not Applicable

76. Please describe the governance framework for monitoring your MTF.

Not Applicable

77. Can your clients collocate close to your MTF?

Not Applicable

78. If a client can collocate close to your MTF, what are the advantages?

Not Applicable

79. Please list all order types used on your MTF?

Not Applicable

80. How does your MTF's minimum order size functionality work?

Not Applicable

81. Are you able to apply restrictions to the trading of a participant in your MTF as a result of execution quality concerns? (Y/N)

Not Applicable

82. If yes, please explain how?

Not Applicable

For firms registered as/connecting to SIs (other firms please move to Section E):

83. What is your SI's quoting policy for price and size?

Please refer to our MiFID II Commercial Policy Disclosure for Published Quotes.

<https://www.investmentbank.barclays.com/disclosures/N2FcdRWQo4/mifid-ii-commercial-policy.html>

84. If you operate an SI, how do you manage any conflicts of interest in relation to your SI?

Please refer to our Conflicts of Interest Policy Summary which encompasses the operation of the SI.

<https://www.investmentbank.barclays.com/disclosures/N2FcdRWQo4/conflicts-of-interest-policy-summary.html>

85. What information (e.g., including but not limited to client name, side, size, price, instrument, limit) do you disclose to your SI?

During execution, LX, CapComm & Direct to Capital (DTC) facilitation fills are only visible to Barclays Equities Electronic Trading EMEA front office staff. Additionally, certain Equities senior management employees may be permitted to view LX, CapComm or DTC facilitation fills in accordance with the firm's internal controls and approvals process.

In addition, the following visibility rules apply to Barclays Central Risk Desk (CRD):

- **Order visibility:** The CRD has no real-time visibility of client order details.
- **Trade visibility:** The CRD has no real-time visibility on executions or positions at a symbol level, however intraday aggregate gross and net sector level exposures are visible to aid hedging & internal risk management. Positions are not transferred to the CRD until:
 - **DTC & Parent CapComm:** Immediately following completion of the relevant Parent order
 - **Child CapComm:** 10 mins following completion or cancellation of the relevant Parent order
- **Order & Execution data visibility:** As part of ongoing risk management activity, the CRD may review order and execution data related to DTC or CapComm on a delayed basis:
 - **DTC eligible orders:** The CRD can view non-anonymised order and execution data from T+1
 - **Parent & Child CapComm:** The CRD can view anonymised order and execution data from T+7

Trade execution data stored in relation to IOIs may also be used for the same purpose. Please contact your Barclays sales representative for more information.

86. Is this information made available to clients? (Y/N)

Not explicitly, however Barclays SI transactions are trade-reported to TRADEcho (a pan-European, multi-asset class UK and EU MiFID II compliant trade and quote publication service for financial firms).

87. Do you monitor and disclose fill, firm up and/or hit rates internally and/or externally?

Portfolio WebBench® is a proprietary Barclays web application with pre-trade and post-trade analytics. It is possible to produce detailed post-trade reporting of order routing and execution performance with descriptive statistics to capture fill rates, slippage, trade duration, and volume participation.

Many of these benchmarks are aggregated and anonymised for use in our Best Execution governance procedures, the ongoing review and enhancement of Barclays algorithms/SOR and client-facing marketing materials which are provided to prospects and existing clients to demonstrate the performance of our proprietary platform.

88. If you do monitor and disclose fill, firm up and/or hit rates internally and/or externally, please answer Q.7 of Annex 1.

89. Do you provide customised tags alongside the MIC code in Tag 30 to identify the type of liquidity our client orders have interacted with?

Barclays can, following agreement on a client-by-client basis, populate various FIX tags related to execution and venue transparency, e.g., Last Market (Tag 30), Liquidity Capacity (Tag 29), Last Liquidity Indicator (851), and Barclays SI Service (20004) can be populated by Barclays on execution messages back to clients.

E. Transaction Cost Analysis/Post-trade Analysis:

90. Do you have capability to offer TCA? (Y/N)

Yes, Barclays offers clients a comprehensive TCA suite of products called Portfolio WebBench®.

- Portfolio WebBench (PWB) is a proprietary Barclays web application with pre-trade and post-trade analytics.
- Clients can observe estimated market impact costs and optimise trade scheduling, monitor trades executed with Barclays in near real-time and track performance against multiple benchmarks.
- PWB can produce detailed post-trade reporting of order routing and execution performance with descriptive statistics to capture slippage, trade duration, and volume participation.

91. Can TCA be provided in real time? (Y/N)

Yes

92. Do you provide post-trade analysis detailing the venues you have traded with? (Y/N)

Yes

93. If you do not provide post-trade analysis detailing the venues you have traded with, please explain why not?

Not applicable

F. Client Confidentiality:

94. Which part of the firm is tasked with monitoring the electronic order flow?

Barclays Equities Electronic Trading EMEA front office sales and trading staff are responsible for monitoring the electronic order flow. BBI and BCSL staff are responsible for servicing BBI and BCSL client activity respectively.

95. Do you execute orders with any affiliates? If yes, what additional controls do you have in place to ensure conflicts are managed?

Barclays Capital Securities Limited (BCSL) and Barclays Bank Ireland PLC (BBI) may use affiliate entities to execute in jurisdictions inside and outside of the UK and EEA e.g., Barclays Capital Inc. (for US markets). Such activity is subject to best-execution governance and review by the Best Execution Forum and information barriers that apply to Barclays Electronic Trading.

96. What information (e.g., including, but not limited to, client name, side, size, price, instrument, limit) do you disclose to external SIs?

At an order level, only those details which are required for them to execute the order will be sent (e.g., side, size, price, instrument, limit prices).

97. Please describe what controls, processes and procedures are in place to ensure client anonymity?

Please refer to the answer provided for Q.98.

98. Which departments of your firm have the ability to see orders (and related execution information) traded via the electronic trading channel?

Departments and/or trading desks that have the ability to see client electronic order information:

- Electronic Trading Team - The Electronic Trading Team includes Product, Sales, Sales Trading and Electronic Service Desk. The Electronic Trading Team will not disclose client-specific electronic order information with other Barclays Sales Trading Teams e.g., High Touch sales traders, without express consent from that client.
- Barclays' global team of algorithmic and quantitative developers – Statistical Modelling & Development – can view all clients' global electronic trading flow globally, on a post-trade basis. This team works on the development of the algorithms for our global offering, model research and calibration and the analysis of orders and execution details, both for clients and the firm's trading desks.
- Additionally, certain Equities senior management employees can view client electronic trading venue and electronic order information, in accordance with the firm's internal controls and approval processes.

- The Central Risk Desk, for the purposes of providing CapComm, can see historical anonymised order-level data, except for Direct to Capital (DTC) eligible orders where this data is non-anonymised.
- Our control and operational partners (Operations, Technology, Compliance, Audit, Risk, Markets Risk & Control and Legal staff) can view order information on a post-trade basis for surveillance and monitoring purposes. They also may request real-time order and revenue information on an as needed basis.

99. Can any other desks see client execution order flow which is not routed to that desk for execution? (Y/N)

No, other desks cannot see client execution order flow which is not routed to that desk for execution. For further details, please refer to Q.98 of section F. Barclays has a control framework process for each desk to certify compliance with order flow visibility rules.

100. If other desks see client execution order flow which is not routed to that desk for execution, what can they see and what is the rationale?

Not applicable

101. Are there any controls in place to restrict cash traders acting/trading on client order flow? (Y/N)

Yes

102. If there are no controls in place to restrict cash traders acting/trading on client order flow, how is this policed?

Not applicable

103. How is permission monitored to ensure that when an employee changes their role within your firm, their privileges are reviewed as well?

A process is in place so that when an individual moves teams their access privileges are reviewed and then revoked where appropriate.

104. If someone leaves the department are all their system permissions automatically removed? (Y/N)

Yes

105. Are Client IDs internally abbreviated or coded for anonymity? (Y/N)

Yes. Client names are internally abbreviated to a Client Acronym; this can be coded for anonymity purposes, where requested by a client.

106. If Client IDs are internally abbreviated or coded for anonymity, please answer Q.8 of Annex 1.

107. Is any of your clients' information accessible to parts of your operations based outside the EEA?

Yes, clients' information is accessible to Barclays' group operations based outside of the UK/EEA. Barclays has global policies in place relating to confidential information, information barriers and information risk management.

108. What is your firm's approach to communicating internally and/or externally, aggregated information about client electronic orders and trading activity intra-day, whether via reports or via data feeds?

Symbol and aggregated executed volume data is advertised via Bloomberg IOIA and is available for Bloomberg users utilising this function. Advertising is delayed by 15 minutes and does not include the executed volume of clients who have opted out. Users may not view Barclays SI volume separate from Barclays' electronic volumes submitted via Bloomberg IOIA.

Aggregated and stale data is used internally to assist with the ongoing review of our electronic products and services, including for Best Execution analysis and Cost of Income processes. It may also be used to highlight performance outcomes in client facing marketing materials e.g., clustering analysis, VWAP performance enhancements, SOR fill rates. Clients can opt-up from their data being included in this analysis at any time.

109. How does your firm determine which subset of clients or internal desks/individuals receive this data?

Information made available via Bloomberg trade adverts is available to all Bloomberg users. With respect to general aggregate data visibility for orders via electronic trading channels, please see Q.98 for more information.

G. Risks and Controls:

All the controls, alerts and checks outlined in this questionnaire are for our benefit only and are subject to change by us at any time without notice to you. You should ensure that you have your own systems and controls in place to comply with any limits that you may be subject to or which we may notify to you from time to time and you should not rely on our limits, controls, alerts and checks.

110. Please describe the team structure for electronic trading including roles and responsibilities.

The Electronic Trading Team is split into two functions. Electronic Sales Trading is primarily responsible for the servicing of client flow, communicating with clients and handling of interventions required on orders. Electronic Trading Product owns front office day-to-day management of electronic trading, looking after the algorithms, providing surveillance, handling any issues or risk, and rolling out strategies upgrades or new products.

111. Please specify who is our firm's primary contact for algorithmic trading should we need to contact them (name, phone number and email address).

Your Barclays Sales representative will be your primary contact.

112. What standard hard reject checks do you carry out on client orders?

Examples of hard reject checks carried out for orders sent to the Algorithms or Dynamic Router can include, but are not limited to:

- Maximum notional per order
- Maximum quantity (shares) per order
- Maximum / Minimum limit price (connectivity layers)
- Maximum impact price (applicable to SOR orders in continuous trading only)
- Restricted stocks
- Maximum orders per time period
- Repetitive Orders (max number of orders with identical parameters per second per client)
- Aggressive and passive price tolerance checks
- Throttling (maximum number of messages or orders per second set per client)
- Market order prevention during continuous trading
- Short sell prevention

113. What standard soft hold checks do you carry out on client orders?

Examples of soft checks carried out for orders sent to the algorithms can be as follows, but not limited to:

- Maximum notional per order
- Maximum ADV per order
- Maximum orders per time period
- Aggressive and passive price tolerance checks

114. If any standard soft hold checks are carried out on client orders, please answer Q.9 of Annex 1.

115. Please describe the fair value mechanics built into your algorithmic strategies/SOR?

Yes, Barclays has the following fair value mechanics:

- Liquidity-seeking algos change their participation based on the current market price of the stock.
- The Dynamic Router employs Active Limit Price Logic, which sets a limit price on orders being worked on non-displayed venues, to prevent execution at sub-optimal prices.
- For LX: Barclays employs a number of controls to ensure that trades arranged in LX are within the spread for the relevant security based on the EBBO for that security at the time of execution. This includes validation logic, on every market data tick, that considers the Best Bid, Best Offer, Spread, Average Trade Size and Last Trade price. Barclays determines appropriate tolerances for these checks and if they are outside of these tolerances, then LX will not allow trades to be arranged, until the market data falls within the tolerances again.

ANNEXES

ANNEX I – Client Specific Questions

The information included in this Annex is related to the trading activity of the specific client.

1. Further to Q.4, Section A, please explain how our firm's orders are advertised on the day of trading.

Not applicable

2. Further to Q.7, Section A, please explain how our firm's trades are advertised on the day of trading.

Your firm's trades are advertised in line with Q.6 of section A, unless you have explicitly requested to opt out.

3. Further to Q.9 of Section A, if you operate tiering in determining which clients see which IOI's, please confirm which tier is our firm currently residing in?

Not applicable

4. Further to Q.36 of Section B, if clients have the option of opting out of functionality of aggregating orders to fulfil minimum quantity, please confirm how our firm is treated.

Not applicable

5. Further to Q.41 of Section B, if minimum fill size criteria are customisable per client request, please confirm how our firm is set up.

For further information, please contact your Barclays Sales representative.

6. Further to Q.45 of Section B, if your firm switches off an existing venue or starts routing to a new one, how will our firm be informed?

Where relevant, notifications can be via email, instant messaging or telephone depending on the circumstances.

7. Further to Q.86 of Section D, if your firm operates an SI and monitors, fill, firm-up and/or hit ratios, please confirm whether this information is provided to our firm, how and at what frequency.

Clients can be enabled for access to Portfolio WebBench® and process reports on their flow at their discretion.

8. Further to Q.104 of Section F, if Client ID's are internally abbreviated or coded for anonymity, please confirm how our firm's name appears in your systems?

For further information, please contact your Barclays Sales representative.

9. Further to Q. 114 of Section F, please list any soft hold checks you have applied to our order flow.

For further information, please contact your Barclays Sales representative.

ANNEX II – Barclays Systematic Internaliser

Barclays Capital Securities Limited and Barclays Bank Ireland PLC are Systematic Internalisers (SIs) in all equity & equity-like instruments.

Where Barclays acts in an SI capacity, the trading venue on the transaction will be enriched with our registered Market Identifier Codes (MIC):

BCSL:

- Operating MIC: BCSL
- Segment MIC: BCSI

BBI:

- Operating MIC: BBIE
- Segment MIC: BBIS

1. Barclays SI Services

Barclays SI includes a number of services which are available via Electronic and High Touch trading channels. This section focuses on the Electronic services.

Please refer to 'MiFID II Commercial Policy Disclosure for Published Quotes' for further information, which will be made available on our website and will include, but is not limited to, the quoting policy for price and size.

2. Electronic trading channel

Barclays SI is accessible electronically through the following services:

- LX (BCSL only)
- Parent CapComm
- Child CapComm

3. LX

LX is a trade arrangement facility providing clients with a unique source of liquidity accessible through Barclays' Electronic Trading Platform. While LX is defaulted on, clients have the option to disable the interaction of their orders within LX.

LX is operated under the BCSL entity. Please note we do not currently provide access to LX for our BBI EU clients. Trades arranged in LX are either transacted within Barclays Systematic Internaliser (BCSI) or negotiated privately and executed under the rules of a Trading Venue (negotiated trade).

For a full list of customisation options related to liquidity preferences, please access SPECS, or contact your Barclays sales representative.

4. LX Conditional Orders

LX supports the use of conditional orders, with both firm and conditional orders eligible to interact within LX. By default, where LX is enabled:

- Barclays Algos (and the Dynamic Router) can place and interact with conditional orders in LX
- Clients are unable to directly submit conditional orders to LX

Please see question 71 for more details on conditional orders.

5. Execution priority in LX

The execution priority for orders in LX during continuous trading is based on price, product type / execution intent (prioritised 'passive' algo intent, 'aggressive' algo intent, non-algo), execution cost, order type (prioritised firm then conditional), and then time. Where Firm and Conditional orders are eligible to interact within LX, they are assessed in the same prioritisation cycle based on the aforementioned execution priority factors.

The execution priority for orders in the Close Internaliser is based on price, size and then time. Where matches are identified early in the Auction window, the match is preserved through the auction, regardless of any new orders that arrive later in the auction with higher priority based on the aforementioned matching rules.

6. LX Resting Order Protection

Barclays employs Resting Order Protection Logic in LX during continuous trading, to enhance the quality of interactions for resting orders. As a result, resting liquidity of lower relative urgency is prevented from being taken by aggressive orders of higher relative urgency, where urgency is determined based on product type (e.g. BSOR, Aggressive Algos, Passive Algos). This logic is not applicable for orders matched in the Close Internaliser.

7. LX 'Counterparty Type' Segmentation

Barclays employs 'Counterparty Type' Segmentation logic in LX during continuous trading, enabling clients, whether providing or taking liquidity (or both), to suppress interaction with contra flow from specific counterparty types (e.g. 'LX only' counterparties, Barclays Trading desks, Barclays Central Risk Desk).

By default, client flow is enabled to interact with all counterparty types. This functionality is not offered to 'LX only' counterparties, Barclays Trading desks, Barclays Central Risk Desk. This logic is not applicable for orders matched in the Close Internaliser.

8. Market data

Barclays SI and all underlying services, including LX, use direct market data feeds for the major UK and European markets.

9. Post-trade Transparency for transactions executed in Barclays SI

Barclays Capital Securities Limited has opted to be a Designated Reporter (under UK RTS 1 – DRR) and Barclays Bank Ireland PLC has opted to be a Designated Publishing Entity (under EU DPE Regime).

As a result, Barclays Capital Securities Limited will post-trade report SI transactions in equity instruments under Article 20 of UK MiFIR to a UK Approved Publication Arrangement (APA), unless the counterparty to the trade is also a DRR, in which case the post-trade reporting obligation is expected to be undertaken by the seller (bi-lateral agreements can be established upon request).

Barclays Bank Ireland PLC will report SI transactions in equity instruments under Article 20 of EU MiFIR to an EU APA, unless the counterparty is also a DPE, in which case, the post-trade reporting obligation is expected to be undertaken by the seller. In all cases, Barclays will confirm over FIX messaging if the trade has been, or intends to be, reported by Barclays.

10. LX System Monitoring

Barclays has real-time tools that are used to monitor connectivity and capacity for LX. Real-time alerts are generated by these tools to allow the teams to respond appropriately.

Barclays also monitors real-time market data feeds across Electronic Trading platforms to identify instances of absence or latency across these feeds, allowing appropriate remediation actions to be taken.

11. No bunching of fills

LX does not “bunch” fill orders to satisfy any minimum quantity criteria. Each fill from LX will be of a quantity equal to, or greater than, the minimum quantity specified on the order.

Please note, if the number of remaining open shares falls below the minimum quantity, LX’s default behaviour will treat that number as the new minimum quantity for the order and will treat the order as an “All or None”, i.e. it will only execute if it can fill the remainder of the order.

12. Execution price in LX

Transactions arranged in LX take place within the spread for the relevant security, based on the EBBO for that security at the time of execution. The EBBO is inclusive of the primary market of listing and the main displayed MTFs across the EU and UK (Aquis MTF, Cboe Europe, Turquoise).

In the case of close transactions in LX, transactions arranged in LX will always take place at the primary close price for the relevant security.

13. LX controls

Barclays employs a number of controls to ensure that all transactions arranged in LX are within the spread for the relevant security based on the EBBO for that security at the time of trade arrangement. This includes validation logic that, on every market data tick, LX considers the European Best Bid, Best Offer, Spread, Average Trade Size and Last Trade price. Barclays determines appropriate tolerances for these checks and if they are outside of these tolerances then LX will not allow transactions to be arranged until the market data falls within the tolerances again.

14. Capital Commitment (CapComm™)

CapComm is a means to access principal liquidity offered by Barclays' Central Risk Desk through the Electronic Trading Platform (further details available in Q85). CapComm is automated capital commitment available through select Barclays' algorithmic trading strategies.

Please refer to the CapComm material available in SPECS or contact your Barclays representative for additional information.

ANNEX III – Barclays Auto-Aggregation

Auto-Aggregation may occur based on a variety of criteria, including but not limited to, side, price, strategy, product type (e.g., Cash / CFD). Clients may request that all or part of their order flow be eligible for electronic Auto-Aggregation e.g., all flow sent to Barclays, or a subset of that flow.

Categories to which Auto Aggregation may be applied may include, by way of example, (i) VWAP only, (ii) specific product types (e.g., cash trading only) or (iii) specific product listings (e.g., Swiss only). If requested, Barclays can aggregate relevant orders across several client affiliates and/or across Barclays' execution products (e.g., CFD and cash trading) in accordance with the client's instructions.

Aggregation criteria will be updated to consider STO eligibility. Orders with different STO status will not be aggregated. Should clients decide to send the Share Trading Instruction using FIX Tag 8015 on orders, the instruction may prevent aggregation with other orders subject to a different STO.

Please be advised, if you opt-in for Auto-Aggregation, you/your individual affiliate(s) may not necessarily achieve the same execution outcome than if you/your affiliate(s) had executed on a non-aggregated basis (which may or may not be advantageous). If an Auto-Aggregated order is partially executed, trades will be allocated in accordance with our order allocation policy.

If you have any questions about the way in which Barclays Auto-Aggregation operates, please contact your Barclays representative.

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ANNEX V – Abbreviations

Abbreviation	Explanation
AFME	The Association for Financial Markets in Europe
EEA	European Economic Area
FIX	Financial Information eXchange Protocol
IA	The Investment Association
IOI	Indication of Interest
MIC Code	Market Identifier Code
MiFID II	Markets in Financial Instruments Directive II
MTF	Multi-Lateral Trading Facility
RM	Regulated Market
SI	Systematic Internaliser
SOR	Smart Order Router
TCA	Transaction Cost Analysis
XOFF	Venue identification code used to indicate a transaction is made off venue