

# LX ATS Monthly Summary

For the month of December 2021

## Execution Metrics\*

Average Daily Volume (mm single counted)	46.6
Average Daily Notional (\$mm)	\$ 2,443
Shares Executed (mm)	1,025
Average Trade Size (shares)	138

## Executions by Price Relative to NBBO

At NBBO or Locked	44.5%
At Midpoint	45.8%
Inside NBBO excluding Midpoint	9.7%

## Block Metrics

	(% of shares)
Block ≥10K shares	2.3%
Block ≥\$200K notional	3.4%
Demi-block 2K-10K shares	9.2%
Demi-block \$100K-\$200K notional	3.1%

## Executions by Subscriber Type

Barclays Institutional Clients & Client Algo/Router Users	7.8%
Broker-Dealers	41.2%
ELPs	49.1%
Barclays Trading Desks	1.9%

## Executions by Liquidity Profiling Category

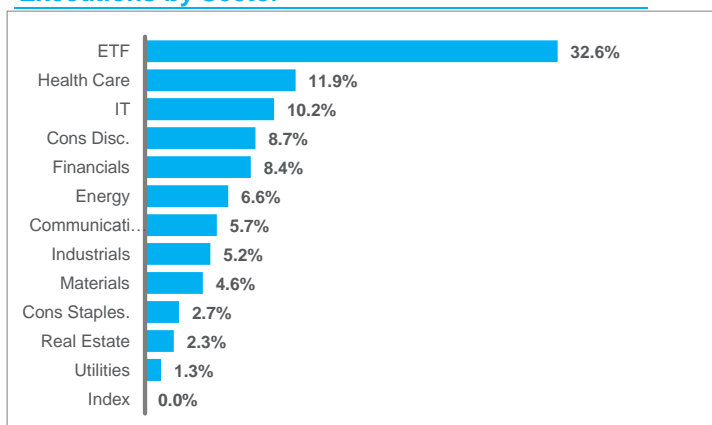
High Alpha	22.7%
Medium Alpha	27.0%
Low Alpha	50.2%

## Results of Liquidity Profiling Review

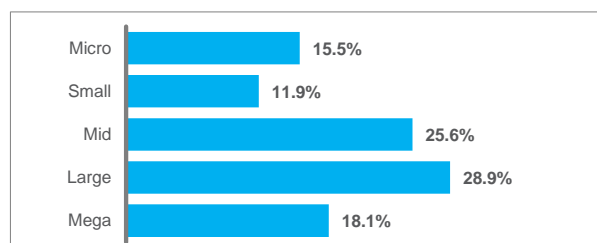
	Number	% of LX Take Flow
Subscribers that changed	25	17.9%
Barclays LP Overrides	0	0.0%

Note: Barclays implemented no overrides to maintain subscribers in their previous, higher alpha category. All changes as a result of the profiling review took effect on 12/03/21. Percentages reflect take flow of subscribers that changed, over all take flow in LX in notional value, for the period 11/01/21 to 11/30/21.

## Executions by Sector

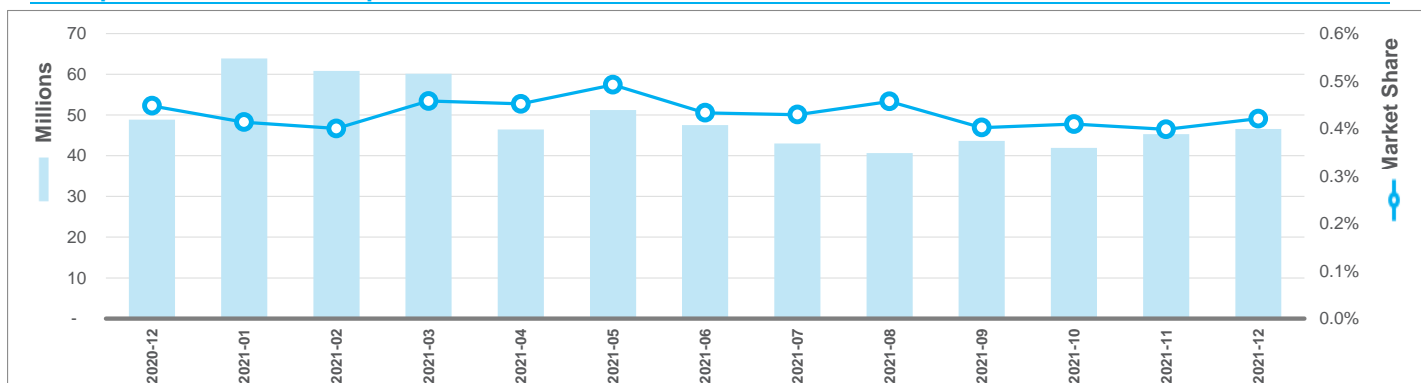


## Executions by Market Cap



Mega	>\$50 billion
Large	\$10 - \$50 billion
Mid	\$2 - \$10 billion
Small	\$750 million - \$2 billion
Micro	<\$750 million

## LX reported shares for the previous 12 Months



\*All data includes aggregate volume as reported on SEC Form ATS-R  
 Note: This information pertains to Barclays LX in the US.

## Execution Metrics

Average Daily Volume	Total shares executed in LX divided by the number of trading days in the month
Average Daily Notional	Total notional executed in LX divided by the number of trading days in the month
Shares Executed	Total shares executed in LX for the month
Average Trade Size	Total shares executed divided by the number of executions in LX

## Block Metrics

Block $\geq$ 10K shares	Percentage of shares executed in blocks of 10,000 shares or greater
Block $\geq$ \$200K notional	Percentage of shares executed in blocks of \$200K notional or greater
Demi-block 2K-10K shares	Percentage of shares executed where each execution has traded shares $\geq$ 2,000 and $<$ 10,000
Demi-block \$100K-\$200K notional	Percentage of shares executed where each execution has traded notional $\geq$ \$100k and $<$ \$200K

## Executions by price relative to the NBBO

At NBBO or Locked	Percentage of shares executed at the national best bid or offer or shares executed when NBBO is locked
At Midpoint	Percentage of shares executed directly at the midpoint
Inside NBBO excluding Midpoint	Percentage of shares executed within the NBBO excluding the midpoint

All orders executed by the ATS are executed at or within the NBBO (with the exception of certain matches and attendant Inter-market Sweep Orders). The ATS utilizes a third-party market data vendor for the purposes of determining the current NBBO. These calculations rely on direct data feeds for all protected venues under Regulation NMS.

## Subscriber Types

Barclays Institutional Clients & Client Algo/Router Users	Institutional and broker-dealer clients that route orders to LX via Barclays' Algorithmic Trading products ("Algos") and/or Dynamic Router and Institutional clients (i.e., non broker-dealer clients) that route orders directly to LX .
Broker-Dealers	Third-party broker-dealers that route orders directly to LX on behalf of their clients, or on behalf their clients and themselves
ELPs	Third-party broker-dealers that route orders directly to LX solely on a principal basis and/or ATS Subscribers who self-identify as ELPs.
Barclays Trading Desks	Barclays client-facing trading desks when executing in a principal capacity in LX and affiliate trading desks executing in LX.

## Executions by Liquidity Profiling Category

Barclays employs a framework called Liquidity Profiling for categorizing activity within our ATS. Liquidity Profiling categorization applies only to subscribers that route directly to LX when removing liquidity, and is based on one-second alpha, which is the midpoint to midpoint market movement over a one-second horizon, normalized by the daily average spread. Based on this metric, subscribers are placed into one of three alpha categories: Low, Medium, and High (Low being the lowest alpha category and High being the highest alpha category).

High Alpha	Executions where the taking subscriber is in the high-alpha category ( $\geq$ 0.201)
Medium Alpha	Executions where the taking subscriber is in the medium-alpha category ( $\geq$ 0.141 and $<$ 0.201)
Low Alpha	Executions where the taking subscriber is in the low-alpha category ( $<$ 0.141); subscribers who route orders to LX via Barclays' algorithms or Dynamic Router are placed in the Low Alpha category by default.
Average 1-Second Take Alpha	Midpoint to midpoint market movement over a 1-second horizon, normalized by the daily average spread
Subscribers that changed	On a monthly basis Barclays reviews the Liquidity Profiling categorizations of subscribers that route directly to LX, based on their average 1-second take alpha. The percentage of LX take flow is the take flow traded by the subscribers who changed Liquidity Profiling category, to either a higher or lower category, divided by the total take flow traded in LX, in notional
Override	On a monthly basis Barclays reviews the Liquidity Profiling categorizations of subscribers and retains discretion to override a subscriber's categorization by placing that subscriber in a higher alpha category than what it would have been if it was based solely on the objective application of the liquidity profiling metric. Barclays may consider previous trading behavior when determining whether to apply an "Override" to a subscriber and may wait for additional data before implementing a change to a lower alpha category. Barclays' discretion is not used to place a subscriber in a lower alpha category than that indicated by Liquidity Profiling. The percentage of LX take flow is the take flow traded by those overridden subscribers, divided by the total take flow traded in LX, in notional.

## Contact

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## Documentation

To be read in conjunction with Barclays LX Form ATS-N and LX FAQs document accessible on [barx.com/eqdisclosures](http://barx.com/eqdisclosures)  
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Note: This information pertains to Barclays LX in the US.

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