



TRADING INSIGHTS- PEER BENCHMARKING

Product Specification Document

Last Update 05/30/2018

1 Product Description:

- Peer Benchmarking provides a ranking of a port's performance based on trading behavior.
- Each port is measured on 7 different factors, based on the previous quarter's data:
 - Average Displayed Dollar Volume
 - Mean % Time Inside the NBBO
 - Mean % Time at the NBBO
 - Average Order to Fill Ratio for IOC orders
 - Average Order to Fill Ratio for non-IOC orders
 - % of Hidden Quantity to Total Quantity
 - % of Providing Liquidity vs Accessing Liquidity
- The data is fed into a K-means unsupervised clustering algorithm to form 9 meaningful and distinct peer groups.
- Each port is classified into one of these 9 peer groups and then ranked against the other ports in their peer group on 40+ metrics.
- Each peer group must have a minimum of 10 ports
- Each port must have at least 1 trade per symbol per day in order to receive the daily symbol report for that day.
- Peer groups are rebalanced at the beginning of each quarter, using the previous quarter's data
- The Peer Benchmark report will help customers have a better idea of how their own trading desks are performing vis-à-vis their competitors.
- It will allow customers to fine-tune their trading activity and measure progress to continually work to refine their competitive edge.
- Use Peer Benchmarking to understand trending over time and whether any significant changes yield the expected results.

2 Product Details

- This component provides a ranking of a particular port's performance based on trading behavior against their peers.
- Reports
 - Daily Security File- T+1 report available by 6:30am the next business day
 - Daily Summary File- T+1 report available by 6:30am the next business day
 - Month-to-date Security File- T+1 report available by 6:30am the next business day
 - Month-to-Date Summary File- T+1 report available by 6:30am the next business day

3 Data Delivery Options

- SFTP
- Entitlements
 - Only the firm responsible for the trading is allowed to access the information.

File Delivery

- External customers download the daily files via the current data SFTP
- Follow the current SFTP historical data file directory structure as follows:

Directory structure: /TradingInsights/MPID/Port/YYYY/MM/DD/pg

File Name structure:

- mmddyyyy_MPID_Port_DailySymbol_PeerGroup-#####.csv
- mmddyyyy_MPID_Port_DailyAggregate_PeerGroup-#####.csv
- mmddyyyy_MPID_Port_MonthlySymbol_PeerGroup-#####.csv
- mmddyyyy_MPID_Port_MonthlyAggregate_PeerGroup-#####.csv
- If there are no files for a given time period, pg directory will not be present

4 Data Fields and Types

- Data files will be provided in a comma-delimited, ASCII-text file (csv). For convenience, NASDAQ will include a header row within each file.
- All timestamps are in nanoseconds since midnight ET and applied by the matching engine at time of order processing.
- For the Daily and Monthly Symbol files, at least 9 other ports in your peer group must have traded that symbol for it to be included. The Daily and Monthly Aggregate files, however, include activity across all symbols.

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
Date	Date	Date of report	DS, DA, MS, MA	-
MPID	MPID	MPID of the firm	DS, DA, MS, MA	
Port	Port	Port Assigned to firm	DS, DA, MS, MA	-
Symbol	Symbol	Assigned issue symbol for the security on the day of trade.	DS, MS	-
Cluster_ID	Cluster ID	The peer group number for the assigned port	DS, DA, MS, MA	-
PeerCount	Peer Count	Total number of peers for the assigned port	DS, DA, MS, MA	-
TotalDollarVolume	Total Dollar Volume	Total Dollar volume performed by the port	DS, DA, MS, MA	
TotalDollarVolume_min	Total Dollar Volume Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
TotalDollarVolume_max	Total Dollar Volume Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
TotalDollarVolume_mean	Total Dollar Volume Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
TotalDollarVolume_median	Total Dollar Volume Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
TotalDollarVolume_std	Total Dollar Volume Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
TotalDollarVolume_Rank	Total Dollar Volume- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
TotalShareVolume	Total Share Volume	Total Share volume performed by the port	DS, DA, MS, MA	
TotalShareVolume_min	Total Share Volume Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
TotalShareVolume_max	Total Share Volume Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
TotalShareVolume_mean	Total Share Volume Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
TotalShareVolume_median	Total Share Volume Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
TotalShareVolume_std	Total Share Volume Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
TotalShareVolume_Rank	Total Share Volume- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
ShareVolumeOfLiquidityProvision	Share Volume of Liquidity Provision	Number of shares of liquidity provided by the port	DS, DA, MS, MA	
ShareVolumeOfLiquidityProvision_min	Share Volume of Liquidity Provision Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
ShareVolumeOfLiquidityProvision_max	Share Volume of Liquidity Provision Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
ShareVolumeOfLiquidityProvision_mean	Share Volume of Liquidity Provision Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
ShareVolumeOfLiquidityProvision_median	Share Volume of Liquidity Provision Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
ShareVolumeOfLiquidityProvision_std	Share Volume of Liquidity Provision Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
ShareVolumeOfLiquidityProvision_Rank	Share Volume of Liquidity Provision- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
ShareVolumeofLiquidityAccessible	Share Volume of Liquidity Accessible	Number of shares of liquidity accessed by the port	DS, DA, MS, MA	
ShareVolumeofLiquidityAccessible_min	Share Volume of Liquidity Accessible Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
ShareVolumeofLiquidityAccessible_max	Share Volume of Liquidity Accessible Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
ShareVolumeofLiquidityAccessible_mean	Share Volume of Liquidity Accessible Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
ShareVolumeofLiquidityAccessible_median	Share Volume of Liquidity Accessible Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
ShareVolumeofLiquidityAccessible_std	Share Volume of Liquidity Accessible Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
ShareVolumeofLiquidityAccessible_Rank	Share Volume of Liquidity Accessible- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
TotalTrades	Total Number of Trades including hidden orders	Total number of trades	DS, DA, MS, MA	
TotalTrades_min	Total Number of Trades including hidden orders Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
TotalTrades_max	Total Number of Trades including hidden orders Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
TotalTrades_mean	Total Number of Trades including hidden orders Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
TotalTrades_median	Total Number of Trades including hidden orders Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
TotalTrades_std	Total Number of Trades including hidden orders Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
TotalTrades_Rank	Total Number of Trades including hidden orders- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
HiddenOrderTrades	Number of Hidden Trades	Total number of trades in which your order was hidden and then executes	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
HiddenOrderTrades_min	Number of Hidden Trades Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
HiddenOrderTrades_max	Number of Hidden Trades Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
HiddenOrderTrades_mean	Number of Hidden Trades Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
HiddenOrderTrades_median	Number of Hidden Trades Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
HiddenOrderTrades_std	Number of Hidden Trades Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
HiddenOrderTrades_Rank	Number of Hidden Trades – Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
MeanTradeSize	Mean Trade Size	Mean size of the trades as measured by total volume of trades/no. of trades (including hidden)	DS, DA, MS, MA	
MeanTradeSize_min	Mean Trade Size Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanTradeSize_max	Mean Trade Size Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanTradeSize_mean	Mean Trade Size Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MeanTradeSize_median	Mean Trade Size Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
MeanTradeSize_std	Mean Trade Size Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
MeanTradeSize_Rank	Mean Trade Size-Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
MedianTradeSize	Median Trade Size	Median size of the trades as measured by total volume of trades/no. of trades (including hidden)	DS, DA, MS, MA	
MedianTradeSize_min	Median Trade Size Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
MedianTradeSize_max	Median Trade Size Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MedianTradeSize_mean	Median Trade Size Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MedianTradeSize_median	Median Trade Size Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
MedianTradeSize_std	Median Trade Size Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
MedianTradeSize_Rank	Median Trade Size- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
MeanHiddenOrderSize	Mean Hidden Order Size	Mean size of the hidden orders submitted from this port	DS, DA, MS, MA	
MeanHiddenOrderSize_min	Mean Hidden Order Size Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenOrderSize_max	Mean Hidden Order Size Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenOrderSize_mean	Mean Hidden Order Size Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenOrderSize_median	Mean Hidden Order Size Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenOrderSize_std	Mean Hidden Order Size Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenOrderSize_Rank	Mean Hidden Order Size - Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
MeanInsideBboTime	Mean Inside BBO Time	Mean percentage of the time the buy order is above the prevailing Nasdaq BB or the sell order is below the prevailing Nasdaq BO for a resting order	DS, DA, MS, MA	
MeanInsideBboTime_min	Mean Inside BBO Time Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanInsideBboTime_max	Mean Inside BBO Time Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
MeanInsideBboTime_mean	Mean Inside BBO Time Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MeanInsideBboTime_median	Mean Inside BBO Time Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
MeanInsideBboTime_std	Mean Inside BBO Time Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
MeanInsideBboTime_Rank	Mean Inside BBO Time- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Ascending
Total_loc	Total Number of IOC Orders Received	Count of the number of original IOC add orders on the sell side	DS, DA, MS, MA	
Total_loc_min	Total number of IOC Orders Received Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
Total_loc_max	Total number of IOC Orders Received Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
Total_loc_mean	Total number of IOC Orders Received Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
Total_loc_median	Total number of IOC Orders Received Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
Total_loc_std	Total number of IOC Orders Received Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
Total_loc_Rank	Total number of IOC Orders Received- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
Unfilledloc	Number of IOC Orders Unfilled	Count of the number of IOC orders that were neither partially nor fully executed	DS, DA, MS, MA	
Unfilledloc_min	Number of IOC Orders Unfilled Miin	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
Unfilledloc_max	Number of IOC Orders Unfilled Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
Unfilledloc_mean	Number of IOC Orders Unfilled Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
Unfilledloc_median	Number of IOC Orders Unfilled Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
Unfilledloc_std	Number of IOC Orders Unfilled Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
Unfilledloc_Rank	Number of IOC Orders Unfilled- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Ascending
AggressiveOrders	Number of Aggressive Orders	Number of orders submitted where the buy is higher than the prevailing BB or the sell is lower than the prevailing BO	DS, DA, MS, MA	
AggressiveOrders_min	Number of Aggressive Orders Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
AggressiveOrders_max	Number of Aggressive Orders Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
AggressiveOrders_mean	Number of Aggressive Orders Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
AggressiveOrders_median	Number of Aggressive Orders Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
AggressiveOrders_std	Number of Aggressive Orders Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
AggressiveOrders_Rank	Number of Aggressive Orders-- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
MeanAggressiveOrderSize	Mean Size of all Aggressive orders	Mean size of all aggressive incoming orders.	DS, DA, MS, MA	
MeanAggressiveOrderSize_min	Mean Size of all Aggressive orders Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanAggressiveOrderSize_max	Mean Size of all Aggressive orders Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanAggressiveOrderSize_mean	Mean Size of all Aggressive orders Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MeanAggressiveOrderSize_median	Mean Size of all Aggressive orders Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
MeanAggressiveOrderSize_std	Mean Size of all Aggressive orders Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
MeanAggressiveOrderSize_Rank	Mean Size of all Aggressive orders-Rank- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
PassiveOrders	Number of Passive Orders	Number of orders submitted where the buy is less than the prevailing BB or the sell is higher than the prevailing BO	DS, DA, MS, MA	
PassiveOrders_min	Number of Passive Orders Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
PassiveOrders_max	Number of Passive Orders Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
PassiveOrders_mean	Number of Passive Orders Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
PassiveOrders_median	Number of Passive Orders Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
PassiveOrders_std	Number of Passive Orders Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
PassiveOrders_Rank	Number of Passive Orders - Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
MeanDisplayedPassiveOrderSize	Mean Size of Displayed Passive Orders	Quantity of displayed passive shares divided by the count of displayed passive shares submitted	DS, DA, MS, MA	
MeanDisplayedPassiveOrderSize_min	Mean Size of Displayed Passive orders -Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanDisplayedPassiveOrderSize_max	Mean Size of Displayed Passive orders- Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanDisplayedPassiveOrderSize_mean	Mean Size of Displayed Passive orders - Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MeanDisplayedPassiveOrderSize_median	Mean Size of Displayed Passive orders -Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
MeanDisplayedPassiveOrderSize_std	Mean Size of Displayed Passive orders -Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
MeanDisplayedPassiveOrderSize_Rank	Mean Size of Displayed Passive orders- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
MeanHiddenPassiveOrdersize	Mean Size of Hidden Passive Orders	Quantity of hidden passive share orders divided by the count of hidden passive orders submitted	DS, DA, MS, MA	
MeanHiddenPassiveOrdersize_min	Mean Size of Hidden Passive Orders- Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenPassiveOrdersize_max	Mean Size of Hidden Passive Orders - Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenPassiveOrdersize_mean	Mean Size of Hidden Passive Orders- Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenPassiveOrdersize_median	Mean Size of Hidden Passive Orders-Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenPassiveOrdersize_std	Mean Size of Hidden Passive-Orders Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
MeanHiddenPassiveOrdersize_Rank	Mean Size of Hidden Passive Orders- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
Total_Orders	Total Number of Orders	Count of the total number of original orders submitted	DS, DA, MS, MA	
Total_orders_min	Total Number of Orders Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
Total_orders_max	Total Number of Orders Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
Total_orders_mean	Total Number of Orders Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
Total_orders_median	Total Number of Orders Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
Total_orders_std	Total Number of Orders Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
Total_orders_rank	Total Number of Orders- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
CancelledTotal	Number of Cancelled orders	Count of the number of processed cancel orders where resting order is fully cancelled.	DS, DA, MS, MA	
CancelledTotal_min	Number of Cancelled orders Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
CancelledTotal_max	Number of Cancelled orders Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
CancelledTotal_mean	Number of Cancelled orders Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
CancelledTotal_median	Number of Cancelled orders Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
CancelledTotal_std	Number of Cancelled orders Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
CancelledTotal_Rank	Number of Cancelled orders- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Ascending
ModifiedTotal	Number of Orders Modified	Count of the number of original replace orders (message type="U")	DS, DA, MS, MA	
ModifiedTotal_min	Number of Orders Modified Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
ModifiedTotal_max	Number of Orders Modified Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
ModifiedTotal_mean	Number of Orders Modified Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
ModifiedTotal_median	Number of Orders Modified Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
ModifiedTotal_std	Number of Orders Modified Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
ModifiedTotal_Rank	Number of Orders Modified- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Ascending
MeanShareVolumeAgainstHidden	Mean Share Volume against Hidden	Mean of total quantity of hidden shares traded against/ total number of trades (ie, average hidden share quantity per execution)	DS, DA, MS, MA	
MeanShareVolumeAgainstHidden_min	Mean Share Volume against Hidden Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanShareVolumeAgainstHidden_max	Mean Share Volume against Hidden Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MeanShareVolumeAgainstHidden_mean	Mean Share Volume against Hidden Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MeanShareVolumeAgainstHidden_median	Mean Share Volume against Hidden Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
MeanShareVolumeAgainstHidden_std	Mean Share Volume against Hidden Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
MeanShareVolumeAgainstHidden_Rank	Mean Share Volume against Hidden- Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Descending
MissedOpportunitiesLiquidity	Missed Opportunities-Liquidity	Count of missed opportunities – liquidity from the MOLI report	DS, DA, MS, MA	
MissedOpportunitiesLiquidity_min	Missed Opportunities-Liquidity Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MissedOpportunitiesLiquidity_max	Missed Opportunities-Liquidity Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MissedOpportunitiesLiquidity_mean	Missed Opportunities-Liquidity Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MissedOpportunitiesLiquidity_median	Missed Opportunities-Liquidity Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
MissedOpportunitiesLiquidity_std	Missed Opportunities-Liquidity Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
MissedOpportunitiesLiquidity_Rank	Missed Opportunities-Liquidity Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Ascending
MissedOpportunitiesLatency	Missed Opportunities-Latency	Count of missed opportunities – latency as defined in MOLA report	DS, DA, MS, MA	
MissedOpportunitiesLatency_min	Missed Opportunities-Latency Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MissedOpportunitiesLatency_max	Missed Opportunities-Latency Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MissedOpportunitiesLatency_mean	Missed Opportunities-Latency Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MissedOpportunitiesLatency_median	Missed Opportunities-Latency Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
MissedOpportunitiesLatency_std	Missed Opportunities-Latency Standard Deviation	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	
MissedOpportunitiesLatency_Rank	Missed Opportunities-Latency Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Ascending
MolaTolocRatio	Missed Opportunities-Latency to IOC Ratio	Count of MOLAs/Total number of IOC orders submitted	DS, DA, MS, MA	
MolaTolocRatio_min	Missed Opportunities-Latency to IOC Ratio Min	Minimum value for this field for the assigned peer group	DS, DA, MS, MA	
MolaTolocRatio_max	Missed Opportunities-Latency to IOC Ratio Max	Maximum value for this field for the assigned peer group	DS, DA, MS, MA	
MolaTolocRatio_mean	Missed Opportunities-Latency to IOC Ratio Mean	Mean value for this field for the assigned peer group	DS, DA, MS, MA	
MolaTolocRatio_median	Missed Opportunities-Latency to IOC Ratio Median	Median value for this field for the assigned peer group	DS, DA, MS, MA	
MolaTolocRatio_std	Missed Opportunities-Latency to IOC	Standard Deviation for this field for the assigned peer group	DS, DA, MS, MA	

Field Name	Field Name Detail	Description	File: DS= Daily Symbol, DA= Daily Aggregate, MS= Monthly Symbol, MA= Monthly Aggregate	Rank Sorting
	Ratio Standard Deviation			
MolaTolocRatio_Rank	Missed Opportunities-Latency to IOC Ratio - Rank	Port rank for this field in your assigned peer group	DS, DA, MS, MA	Ascending