## RTS 28 Quality of Execution Annual Report

Firm: Marshall Wace LLP ("MW" or the "Firm")

Calendar Year Disclosure Period: 1 January 2017 to 31 December 2017

Date: April 30, 2018

MW is an EU-based investment manager registered with the Financial Conduct Authority ("FCA"). MW is authorised by the FCA to conduct three broad categories of business: managing alternative investment funds in its capacity as an Alternative Investment Fund Manager ("AIFM") under the Alternative Investment Fund Managers Directive ("AIFMD"), acting as the management company of, and investment manager to, EEA-regulated UCITS schemes as part of the Undertakings for Collective Investments in Transferable Securities Directive ("UCITS"), and providing discretionary management services (and related advisory and dealing services) to segregated account and managed account clients. The terms of MW's FCA permission entitle it to carry on certain investment management activities that are regulated under the re-cast Markets in Financial Instruments Directive and Regulation (together, "MiFID II"). In relation to such investment management activities (known as MiFID II "top-up" services), MW is subject to the FCA rules that implement MiFID II as well as certain directly applicable EU secondary regulation like Regulatory Technical Standard 28 ("RTS 28"). In accordance with RTS 28, MW is providing additional disclosures around the execution venues utilized for each class of financial instrument and quality of execution.

MW provides investment management services to only "professional clients." Whilst retail investors may invest in funds managed by MW like UCITS funds, MW does not provide investment management services to "retail clients." In providing investment management services to only "professional clients," Marshall Wace LLP effects transactions in which it passes or transmits orders to another firm (e.g., broker counterparty) for execution (i.e., "indirect trading"). As MW is an AIFM with "top-up" permissions, MW is required to provide relevant execution data and make statements for only those instrument classes in which it carries out indirect trading. Consequently, classes of instruments in respect of which MW carried out only direct trading during 2017 are not included in this report.

Summary of classes of instruments included in this report, and classes of instruments not included in this report (because the Firm has not executed client orders in that class of instruments or the class of instrument involved only direct trading):

Annex I Classes of instruments included in this report	Annex I Classes of instruments not included in this report		
Equities – Shares & Depositary Receipts (a)	Debt Instruments (b)		
<ul> <li>Tick size liquidity bands 5 and 6 (i)</li> </ul>	o Bonds (i)		
<ul> <li>Tick size liquidity bands 3 and 4 (ii)</li> </ul>	Money markets instruments (ii)		
<ul> <li>Tick size liquidity bands 1 and 2 (iii)</li> </ul>	Interest rate derivatives (c)		
Interest rate derivatives (c)	<ul> <li>Swaps, forwards, and other interest rate derivatives (ii)</li> </ul>		
<ul> <li>Futures and options admitted to trading on a trading venue (i)</li> </ul>	Credit derivatives (d)		
Equity Derivatives (g)	<ul> <li>Futures and options admitted to trading on a trading venue (i)</li> </ul>		
<ul> <li>Options and futures admitted to trading on a trading venue (i)</li> </ul>	Other credit derivatives (ii)		
Commodities derivatives and emission allowances derivatives (i)	Currency Derivatives (e)		

- o Options and Futures admitted to trading on a trading venue (i)
- Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities) (k)
- Other instruments (m)

- o Futures and options admitted to trading on a trading venue (i)
- Swaps, forwards, and other currency derivatives (ii)
- Structured finance instruments (f)
- Equity Derivatives (g)
  - Swaps and other equity derivatives (ii)
- Securitized Derivatives (h)
  - Warrants and certificate derivatives (i)
  - Other securitized derivatives (ii)
- Commodities derivatives and emission allowances derivatives (i)
  - o Other commodities derivatives and emission allowances derivatives (ii)
- Contracts for difference (j)
- Emission allowances (I)

Class of Instrument	Annex I(a)(i): Equities - Shares & Depositary Receipts; tick size liquidity bands 5 and 6 (from 2000 trades per day)				
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Morgan Stanley	59.43%	31.46%	N/A	N/A	0%
JP Morgan	11.39%	12.37%	N/A	N/A	0%
Deutsche Bank	6.47%	7.43%	N/A	N/A	0%
Goldman Sachs	4.86%	8.35%	N/A	N/A	0%
BofA Merrill Lynch	4.64%	9.23%	N/A	N/A	0%

Class of instrument	Annex I(a)(i): Equities - Shares & Depositary Receipts; tick size liquidity bands	s 5 & 6 (from 2000 trades per day)	
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible results for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.		
	Summary of analysis Conclusion		
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the type of the order  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement  • the cost of transacting	The relative importance given to the execution factors was in line with the Firm's order execution policy.	
	the size or nature of the order		

Close links, conflicts of interest and common ownership with respect to execution venues	The Firm has no close links to report.  Conflicts of interest	N/A Conflicts of interest
execution venues	The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.  The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime brokerage services, which the Firm may also utilize.	Conflicts of interest In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of which execution venues are selected in the course of effecting a transaction.  The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.
	Common ownerships  The Firm has no common ownership to report.	Common ownerships N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A
Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to	N/A

Differentiation across	the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no changes to the list of execution venues/brokers in the Firm's Order Execution Policy.  N/A - all of the Firm's clients are professional clients	N/A		
client categories				
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.  The Firm has not taken into account data from brokers or execution venues under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	N/A		
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A		
Use of DEA	The list of top 5 brokers for this class of instrument includes brokers who pro These DEA brokers for this class of instrument that are within the top five exe			
	Morgan Stanley			
	Deutsche Bank AG, London Branch			
	J.P. Morgan			

Bank of America Merrill Lynch

The top 5 EEA and non-EEA trading venues, as defined by MiFID II, accessed by the Firm using DEA via a broker for this instrument class were:

- Cboe Europe Equities MTF CXE Integrated Book Segment
- London Stock Exchange Regulated Market
- Turquoise
- Deutsche Borsa Xetra
- Euronext Paris

Class of Instrument	Annex I(a)(ii): Equities - Shares & Depositary Receipts; tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Morgan Stanley	57.45%	38.33%	N/A	N/A	0%
Deutsche Bank	8.82%	9.08%	N/A	N/A	0%
UBS	7.19%	12.16%	N/A	N/A	0%
JP Morgan	5.33%	6.97%	N/A	N/A	0%
Credit Suisse	4.86%	6.41%	N/A	N/A	0%

Class of instrument	Annex I(a)(ii): Equities - Shares & Depositary Receipts: tick size liquidity band	ls 3 & 4 (from 80 to 1999 trades per day)	
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.		
	Summary of analysis Conclusion		
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the type of the order  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement  • the cost of transacting  • the size or nature of the order	The relative importance given to the execution factors was in line with the Firm's order execution policy.	
Close links, conflicts of interest and common ownership with respect to	Close links  The Firm has no close links to report.	Close links N/A	
execution venues			

	Conflicts of interest  The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.  The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime brokerage services, which the Firm may also utilize.	Conflicts of interest In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of which execution venues are selected in the course of effecting a transaction.  The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.
	Common ownerships  The Firm has no common ownership to report.	Common ownerships N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A
Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no	N/A

	changes to the list of execution venues/brokers in the Firm's Order Execution Policy.			
Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A		
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.	N/A		
	The Firm has not taken into account data from brokers or execution venues under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.			
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A		
Use of DEA	The list of top 5 brokers for this class of instrument includes brokers who pro These DEA brokers for this class of instrument that are within the top five exe			
	Morgan Stanley			
	Deutsche Bank AG, London Branch			
	J.P. Morgan			
	UBS Limited			
	The top 5 EEA and non-EEA trading venues, as defined by MiFID II, accessed by the Firm using DEA via a broker for this instrument class were:			
	Cboe Europe Equities MTF - CXE Integrated Book Segment			

SWX Europe
London Stock Exchange Regulated Market
Deutsche Borsa Xetra
Turquoise

Class of Instrument	Annex I(a)(iii): Equities - Shares & Depositary Receipts; tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)				
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Morgan Stanley	68.63%	55.70%	N/A	N/A	0%
BofA Merrill Lynch	14.29%	17.58%	N/A	N/A	0%
Citigroup	3.19%	0.87%	N/A	N/A	0%
Deutsche Bank	3.05%	6.47%	N/A	N/A	0%
UBS	2.80%	6.28%	N/A	N/A	0%

Class of instrument	Annex I(a)(iii): Equities – Shares & Depositary Receipts; tick size liquidity band	ds 1 & 2 (from 0 to 79 trades per day)	
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.		
	Summary of analysis	Conclusion	
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the type of the order  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement  • the cost of transacting  • the size or nature of the order	The relative importance given to the execution factors was in line with the Firm's order execution policy.	
Close links, conflicts of	Close links	Close links	
interest and common	The Firm has no close links to report.	N/A	

ownership with respect to		
execution venues	Conflicts of interest The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.  The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime brokerage services, which the Firm may also utilize.  Common ownerships	Conflicts of interest In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of which execution venues are selected in the course of effecting a transaction.  The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.  Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A
Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no	N/A

	changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	
Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.	N/A
	The Firm has not taken into account data from brokers or execution venues under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A
Use of DEA	The list of top 5 brokers for this class of instrument includes brokers who pro These DEA brokers for this class of instrument that are within the top five exe	
	Morgan Stanley	
	Deutsche Bank AG, London Branch	
	UBS Limited	
	Bank of America Merrill Lynch	
	The top 5 EEA and non-EEA trading venues, as defined by MiFID II, accessed by	by the Firm using DEA via a broker for this instrument class were:
	Johannesburg Stock Exchange	

Borsa Istanbul
Moscow Exchange
Tel Aviv Stock Exchange
Cboe Europe Equities MTF – CXE Integrated Book Segment (LEI: 254900ERRPSKE7UZH711)

Class of Instrument	Annex I (c)(i): Interest rate derivatives; Futures and options admitted to trading on a trading venue				
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Deutsche Bank	77.83%	69.60%	N/A	N/A	0%
UBS	22.17%	30.40%	N/A	N/A	0%

Class of instrument	Annex I (c)(i): Interest rate derivatives; Futures and Options admitted to trading on a trading venue				
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.				
	Summary of analysis	Conclusion			
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the type of the order  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement  • the cost of transacting  • the size or nature of the order	the Firm's order execution policy.			
Close links, conflicts of interest and common ownership with respect to execution venues	Close links The Firm has no close links to report.	Close links N/A			
OACOULOTT VOTIGOS	Conflicts of interest	Conflicts of interest			
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	The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.  The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime brokerage services, which the Firm may also utilize.	In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of which execution venues are selected in the course of effecting a transaction.  The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.
	Common ownerships	Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A
Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	N/A

Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.	N/A
	The Firm has not taken into account data from brokers or execution venues under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A
Use of DEA	N/A for this Class of instrument	

Class of Instrument	Annex I (g)(i): Equity Derivatives; Options and futures admitted to trading on a trading venue				
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
UBS	63.86%	69.17%	N/A	N/A	0%
Deutsche Bank	15.74%	2.09%	N/A	N/A	0%
Credit Suisse	14.58%	26.58%	N/A	N/A	0%
Morgan Stanley	5.67%	2.10%	N/A	N/A	0%
Barclays	0.12%	0.03%	N/A	N/A	0%

Class of instrument	Annex I (g)(i): Equity Derivatives; Options and futures admitted to trading on a	trading venue		
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.			
	Summary of analysis	Conclusion		
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the type of the order  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement  • the cost of transacting  • the size or nature of the order	The relative importance given to the execution factors was in line with the Firm's order execution policy.		
Close links, conflicts of	Close links	Close links		
interest and common	The Firm has no close links to report.	N/A		

ownership with respect to		
execution venues	Conflicts of interest  The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.  The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime brokerage services, which the Firm may also utilize.  Common ownerships	Conflicts of interest In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of which execution venues are selected in the course of effecting a transaction.  The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.  Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A
Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no	N/A

	changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	
Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.  The Firm has not taken into account data from brokers or execution venues under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time	N/A
	of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A
Use of DEA	The list of top 5 brokers for this class of instrument includes brokers who pro These DEA brokers for this class of instrument that are within the top five exe	
	UBS Limited	
	The top 5 EEA and non-EEA trading venues, as defined by MiFID II, accessed I	by the Firm using DEA via a broker for this instrument class were:
	EUREX Deutschland	
	CME Europe Limited	

Class of Instrument	Annex I (i)(i): Commodities derivatives and emission allowances derivatives; Options and futures admitted to trading on a trading venue				
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
UBS	90.75%	80.53%	N/A	N/A	0%
Citigroup	5.14%	3.44%	N/A	N/A	0%
Deutsche Bank	3.59%	15.27%	N/A	N/A	0%
Goldman Sachs	0.52%	0.76%	N/A	N/A	0%

Class of instrument	Annex I (i)(i): Commodities derivatives and emission allowances; Options and futures admitted to trading on a trading venue		
Summary	The Firm's order execution process represents a structured approach to order to achieve the best possible result for clients. The Firm has policies and proce and verify that the best possible results are obtained for clients. When selecting market conditions and several execution factors, such as the characteristics of instrument or asset class such as its liquidity, the type of the order, the size likelihood of settlement, and the cost of transacting. The Firm analyses these prioritizes them accordingly to obtain the overall highest quality of execution arrangements through the use of automated and ad-hoc reporting, as well as the reporting time period confirmed that the execution quality from the Transportance of the execution factors utilized in effecting transactions. The Firm result for its clients on a consistent basis.	edures designed to analyse the quality of execution obtained and monitoring the appropriate execution venue, the Firm takes into account prevailing of the client, such as its categorization, the characteristics of the financial e of the order, the urgency of execution, the likelihood of execution, the e and other execution factors in the course of effecting transactions and in. The Firm monitors the quality and effectiveness of its order execution a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during op 5 Venues reflected consistency with and adherence to the relative	
	Summary of analysis Conclusion		
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the type of the order  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement  • the cost of transacting  • the size or nature of the order	The relative importance given to the execution factors was in line with the Firm's order execution policy.	
Close links, conflicts of	Close links	Close links	
interest and common			
ownership with respect to execution venues	The Firm has no close links to report.	N/A	

	Conflicts of interest	Conflicts of interest
	The Firm may on behalf of its clients during the course of its portfolio	In addition to an investment in a financial services company with a
	management activities, invest in entities who are or whose sub-entities	trading counterparty not being an execution factor in choosing execution
	include trading counterparties.	venues, a separate and distinct Trading and Execution Management
		function exists which has independent discretion and monitoring of
	The Firm may on behalf of its clients during the course of its execution	which execution venues are selected in the course of effecting a
	management activities, route an order to a counterparty for execution, and	transaction.
	that counterparty provides or is affiliated with an entity that provides, prime brokerage services, which the Firm may also utilize.	The Firm has automated and ad has reporting and manitaring an heat
	brokerage services, which the Firm may also utilize.	The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of
		execution, order size, likelihood of settlement, speed of execution, cost
		of execution, and other important execution factors, designed to identify
		outliers in execution quality which would include instances where an
		execution counterparty and related prime broker are utilized in effecting
		a transaction, and the overall quality of execution does not meet the
		Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.
		monitored for successful resolution.
		Independent monitoring is also performed by the Firm's Execution &
		Trade Management Committee and Conflicts of Interest Committee,
		both formal governance and oversight committees. The potential
		conflicts of interest are therefore appropriately mitigated.
	Common ownerships	Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements	The Firm has no energific arrangements to report	NI/A
with execution venues regarding payments made	The Firm has no specific arrangements to report.	N/A
or received, discounts,		
rebates or non-monetary		
benefits received		
Forton Los P. C.		
Factors leading to a change in the list of	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly	N/A
execution venues listed in	to ensure that the Firm is able to achieve the highest quality of execution for	IN/A
the Order Execution Policy	its clients. A number of factors can be considered for making a change to	
	the approved counterparty list, such as: the counterparty's execution	
		1
	performance, cost, credit worthiness, and responsiveness. There were no	
	changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	

Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.	N/A
Use of consolidated tape provider output	The Firm has not taken into account data from brokers or execution venues under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.  The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been	N/A
	in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	
Use of DEA	N/A for this Class of instrument	

Class of Instrument	Annex I (k): Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
JP Morgan	81.81%	86.40%	N/A	N/A	0%
Credit Suisse	6.25%	5.73%	N/A	N/A	0%
BofA Merrill Lynch	6.19%	1.43%	N/A	N/A	0%
Morgan Stanley	2.84%	5.37%	N/A	N/A	0%
Deutsche Bank	2.82%	0.95%	N/A	N/A	0%

Class of instrument	Annex I (k): Exchange traded products (Exchange traded funds, exchange trade	ded notes and exchange traded commodities)	
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.		
	Summary of analysis Conclusion		
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the type of the order  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement  • the cost of transacting  • the size or nature of the order	The relative importance given to the execution factors was in line with the Firm's order execution policy.	
Close links, conflicts of interest and common	Close links	Close links	
ownership with respect to execution venues	The Firm has no close links to report.	N/A	

	Conflicts of interest	Conflicts of interest
	The Firm may on behalf of its clients during the course of its portfolio	In addition to an investment in a financial services company with a
	management activities, invest in entities who are or whose sub-entities	trading counterparty not being an execution factor in choosing execution
	include trading counterparties.	venues, a separate and distinct Trading and Execution Management
		function exists which has independent discretion and monitoring of
	The Firm may on behalf of its clients during the course of its execution	which execution venues are selected in the course of effecting a
	management activities, route an order to a counterparty for execution, and	transaction.
	that counterparty provides or is affiliated with an entity that provides, prime brokerage services, which the Firm may also utilize.	The Firm has automated and ad has reporting and manitaring an heat
	brokerage services, which the Firm may also utilize.	The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of
		execution, order size, likelihood of settlement, speed of execution, cost
		of execution, and other important execution factors, designed to identify
		outliers in execution quality which would include instances where an
		execution counterparty and related prime broker are utilized in effecting
		a transaction, and the overall quality of execution does not meet the
		Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.
		monitored for successful resolution.
		Independent monitoring is also performed by the Firm's Execution &
		Trade Management Committee and Conflicts of Interest Committee,
		both formal governance and oversight committees. The potential
		conflicts of interest are therefore appropriately mitigated.
	Common ownerships	Common ownerships
	The Firm has no common ownership to report.	N/A
	· · ·	, and the second
Specific arrangements		N/A
with execution venues regarding payments made	The Firm has no specific arrangements to report.	N/A
or received, discounts,		
rebates or non-monetary		
benefits received		
Factors leading to a	The Firm places orders to be executed with approved counterparties	NI/A
change in the list of execution venues listed in	(execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for	N/A
the Order Execution Policy	its clients. A number of factors can be considered for making a change to	
and Gradi Excodution I only	the approved counterparty list, such as: the counterparty's execution	
	performance, cost, credit worthiness, and responsiveness. There were no	
	changes to the list of execution venues/brokers in the Firm's Order Execution	
	Policy.	

Differentiation across	N/A - all of the Firm's clients are professional clients	N/A
client categories		
Use of data / tools relating	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and	N/A
to quality of execution	associated automated and ad-hoc reporting that are designed to assess the	
	quality of execution by analysing implicit and explicit costs that can arise in	
	the course of effecting transactions. The reporting is regularly reviewed by	
	the Trading team and outliers are accordingly escalated to the appropriate	
	team(s) which can include the Portfolio Management teams and Compliance.	
	Furthermore, reporting and escalations are presented to and reviewed by the	
	Firm's Execution & Trade Management Committee, a formal governance and	
	oversight committee that meets at minimum on a quarterly basis. The	
	Execution & Trade Management Committee reviews adherence to the Firm's	
	Best Execution Policy and policies and procedures designed to achieve the	
	highest overall quality of execution for clients. It is attended by senior	
	Investment, Trading, Compliance, Legal, Risk, Technology, and Operations	
	employees.	
	The Firm has not taken into account data from brokers or execution venues	
	under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no	
	RTS 27 reports have been produced in respect of 2017 trading, at the time	
	of trading, and third party RTS 28 reports for 2017 trading are not yet	
	generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best	
	execution reports when they are available.	
Use of consolidated tape	The Firm has not used output from relevant consolidated tape providers to	N/A
provider output	monitor execution quality in relation to 2017 because they had not yet been	
	in operation during this time period. The Firm will evaluate its use in its order	
	execution arrangements when they are available.	
Use of DEA	N/A for this Class of instrument	

Class of Instrument	Annex I (m): Other instruments				
Notification if <1 average trade per business day in the previous year	Y				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Morgan Stanley	82.34%	22.47%	N/A	N/A	0%
BofA Merrill Lynch	8.26%	6.74%	N/A	N/A	0%
Credit Suisse	7.67%	35.96%	N/A	N/A	0%
UBS	0.56%	17.98%	N/A	N/A	0%
Deutsche Bank	0.47%	11.24%	N/A	N/A	0%

Class of instrument	Annex I (m): Other Instruments	
Summary	The Firm's order execution process represents a structured approach to order to achieve the best possible result for clients. The Firm has policies and proce and verify that the best possible results are obtained for clients. When selecting market conditions and several execution factors, such as the characteristics of instrument or asset class such as its liquidity, the type of the order, the size likelihood of settlement, and the cost of transacting. The Firm analyses thes prioritizes them accordingly to obtain the overall highest quality of execution arrangements through the use of automated and ad-hoc reporting, as well as the reporting time period confirmed that the execution quality from the Top 5 V of the execution factors utilized in effecting transactions. The Firm considers clients on a consistent basis.	edures designed to analyse the quality of execution obtained and monitor ng the appropriate execution venue, the Firm takes into account prevailing of the client, such as its categorization, the characteristics of the financial e of the order, the urgency of execution, the likelihood of execution, the e and other execution factors in the course of effecting transactions and n. The Firm monitors the quality and effectiveness of its order execution a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during enues reflected consistency with and adherence to the relative importance
	Summary of analysis	Conclusion
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the type of the order  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement  • the cost of transacting  • the size or nature of the order	The relative importance given to the execution factors was in line with the Firm's order execution policy.

Close links, conflicts of	Close links	Close links
interest and common ownership with respect to execution venues	The Firm has no close links to report.	N/A
	Conflicts of interest	Conflicts of interest
	The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.	In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of
	The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime	which execution venues are selected in the course of effecting a transaction.
	brokerage services, which the Firm may also utilize.	The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both
		formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.
	Common ownerships	Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A

Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	N/A
Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.	N/A
	The Firm has not taken into account data from brokers or execution venues under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A
Use of DEA	N/A for this Class of instrument	

Class of Instrument	Securities Financing Transactions (SFTs) - Annex I (a)(i): Equities - Shares & Depositary Receipts; tick size liquidity bands 5 and 6 (from 2000 trades per day)		
Notification if <1 average trade per business day in the previous year	N		
Top five execution venues ranked in terms of trading volumes	Proportion of volume traded as a percentage of total	Proportion of orders executed as a percentage of total in	
(descending order)	in that class	that class	
BofA Merrill Lynch	47.41%	15.52%	
Credit Suisse	25.73%	23.51%	
Morgan Stanley	24.38%	35.99%	
Deutsche Bank	1.21%	15.33%	
UBS	1.16%	8.81%	

Class of instrument	Securities Financing Transactions (SFTs) - Annex I (a)(i): Equities - Shares & per day)	Depositary Receipts; tick size liquidity bands 5 and 6 (from 2000 trades
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.	
	Summary of analysis	Conclusion
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement or stability of the borrow  • the size of the order  • the cost of transacting  • the operational efficiency and reliability of the counterparty  • the credit worthiness of the counterparty	The relative importance given to the execution factors was in line with the Firm's order execution policy.

Close links, conflicts of	Close links	Close links
interest and common ownership with respect to execution venues	The Firm has no close links to report.	N/A
	Conflicts of interest	Conflicts of interest
	The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.	In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of
	The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime	which execution venues are selected in the course of effecting a transaction.
	brokerage services, which the Firm may also utilize.	The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both
		formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.
	Common ownerships	Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A

Factors leading to a change in the list of execution venues listed in the Order Execution Policy	(execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	N/A
Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.  The Firm has not taken into account data from brokers or execution venues	N/A
	under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A
Use of DEA	N/A for this Class of instrument	

Class of Instrument	Securities Financing Transactions (SFTs) - Annex I (a)(ii): Equities - Shares & Depositary Receipts; tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)	
Notification if <1 average trade per business day in the previous year	N	
Top five execution venues ranked in terms of trading volumes	Proportion of volume traded as a percentage of total	Proportion of orders executed as a percentage of total in
(descending order)	in that class	that class
BofA Merrill Lynch	67.01%	37.91%
Credit Suisse	22.41%	29.40%
Morgan Stanley	9.28%	18.76%
Deutsche Bank	0.93%	10.55%
UBS	0.23%	2.05%

Class of instrument	Securities Financing Transactions (SFTs) - Annex I (a)(ii): Equities - Shares & trades per day)	Depositary Receipts; tick size liquidity bands 3 and 4 (from 80 to 1999
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.	
	Summary of analysis	Conclusion
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement or stability of the borrow  • the size of the order  • the cost of transacting  • the operational efficiency and reliability of the counterparty  • the credit worthiness of the counterparty	The relative importance given to the execution factors was in line with the Firm's order execution policy.

Close links, conflicts of	Close links	Close links
interest and common ownership with respect to execution venues	The Firm has no close links to report.	N/A
	Conflicts of interest	Conflicts of interest
	The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.	In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of
	The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime	which execution venues are selected in the course of effecting a transaction.
	brokerage services, which the Firm may also utilize.	The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution &
		Trade Management Committee and Conflicts of Interest Committee, both formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.
	Common ownerships	Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A

Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	N/A
Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.  The Firm has not taken into account data from brokers or execution venues	N/A
	under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A
Use of DEA	N/A for this Class of instrument	

Class of Instrument	Securities Financing Transactions (SFTs) - Annex I a(iii): Equities - Shares & Depositary Receipts; tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)	
Notification if <1 average trade per business day in the previous year	N	
Top five execution venues ranked in terms of trading volumes	Proportion of volume traded as a percentage of total	Proportion of orders executed as a percentage of total in
(descending order)	in that class	that class
Credit Suisse	30.55%	39.37%
Morgan Stanley	28.78%	23.06%
UBS	18.50%	13.48%
BofA Merrill Lynch	16.04%	7.86%
Deutsche Bank	6.12%	16.20%

Class of instrument	Securities Financing Transactions (SFTs) - Annex I (a)(iii): Equities - Shares & per day)	Depositary Receipts; tick size liquidity bands 1 and 2 (from 0 to 79 trades
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.	
	Summary of analysis	Conclusion
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement or stability of the borrow  • the size of the order  • the cost of transacting  • the operational efficiency and reliability of the counterparty  • the credit worthiness of the counterparty	The relative importance given to the execution factors was in line with the Firm's order execution policy.

Close links, conflicts of	Close links	Close links
interest and common ownership with respect to execution venues	The Firm has no close links to report.	N/A
	Conflicts of interest	Conflicts of interest
	The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.	In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of
	The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime	which execution venues are selected in the course of effecting a transaction.
	brokerage services, which the Firm may also utilize.	The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both
		formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.
	Common ownerships	Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A

Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	N/A
Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.  The Firm has not taken into account data from brokers or execution venues under Pogulatory Tophpical Standard 27 ("PTS 27") or PTS 28 because no	N/A
	under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A
Use of DEA	N/A for this Class of instrument	

Class of Instrument	Securities Financing Transactions (SFTs) - Annex I (k): Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)	
Notification if <1 average trade per business day in the previous year	N	
Top five execution venues ranked in terms of trading volumes	Proportion of volume traded as a percentage of	Proportion of orders executed as a percentage of total in
(descending order)	total in that class	that class
Credit Suisse	35.65%	52.53%
Morgan Stanley	34.14%	21.65%
BofA Merrill Lynch	26.10%	15.03%
Deutsche Bank	3.90%	8.58%
Goldman Sachs	0.14%	1.23%

Class of instrument	Securities Financing Transactions (SFTs) - Annex I (k): Exchange traded producommodities)	ucts (Exchange trade funds, exchange traded notes and exchange traded
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.	
	Summary of analysis	Conclusion
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement or stability of the borrow  • the size of the order  • the cost of transacting  • the operational efficiency and reliability of the counterparty  • the credit worthiness of the counterparty	The relative importance given to the execution factors was in line with the Firm's order execution policy.

Close links, conflicts of	Close links	Close links
interest and common ownership with respect to execution venues	The Firm has no close links to report.	N/A
	Conflicts of interest	Conflicts of interest
	The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.  The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and	In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of which execution venues are selected in the course of effecting a transaction.
	that counterparty provides or is affiliated with an entity that provides, prime	transaction.
	brokerage services, which the Firm may also utilize.	The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.
		Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.
	Common ownerships	Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A
Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution	N/A

	performance, cost, credit worthiness, and responsiveness. There were no changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	
Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.	N/A
	The Firm has not taken into account data from brokers or execution venues under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A
Use of DEA	N/A for this Class of instrument	

Class of Instrument	Securities Financing Transactions (SFTs) - Annex I (m): Other instruments	
Notification if <1 average trade per business day in the previous year	Y	
Top five execution venues ranked in terms of trading volumes	Proportion of volume traded as a percentage of total	Proportion of orders executed as a percentage of total in
(descending order)	in that class	that class
BofA Merrill Lynch	93.50%	4.12%
UBS	3.17%	8.64%
Deutsche Bank	2.96%	5.76%
Credit Suisse	0.37%	81.48%

Class of instrument	Securities Financing Transactions (SFTs) - Annex I (m): Other instruments	
Summary	The Firm's order execution process represents a structured approach to order decision-making, from order entry to settlement, and a strategy designed to achieve the best possible result for clients. The Firm has policies and procedures designed to analyse the quality of execution obtained and monitor and verify that the best possible results are obtained for clients. When selecting the appropriate execution venue, the Firm takes into account prevailing market conditions and several execution factors, such as the characteristics of the client, such as its categorization, the characteristics of the financial instrument or asset class such as its liquidity, the type of the order, the size of the order, the urgency of execution, the likelihood of settlement, and the cost of transacting. The Firm analyses these and other execution factors in the course of effecting transactions and prioritizes them accordingly to obtain the overall highest quality of execution. The Firm monitors the quality and effectiveness of its order execution arrangements through the use of automated and ad-hoc reporting, as well as a Transaction Cost Analysis ("TCA") system. The Firm's monitoring during the reporting time period confirmed that the execution quality from the Top 5 Venues reflected consistency with and adherence to the relative importance of the execution factors utilized in effecting transactions. The Firm considers that it has satisfied its obligation to achieve the best possible result for its clients on a consistent basis.	
	Summary of analysis	Conclusion
Execution factors	The relative importance of the execution factors was determined by the following execution criteria:  • the characteristics of the Client, including the categorisation of the Client as professional  • the characteristics of the financial instrument  • the urgency of execution  • the likelihood of execution  • the likelihood of settlement or stability of the borrow  • the size of the order  • the cost of transacting  • the operational efficiency and reliability of the counterparty  • the credit worthiness of the counterparty	The relative importance given to the execution factors was in line with the Firm's order execution policy.
Close links, conflicts of	Close links	Close links
interest and common	The Firm has no close links to report.	N/A

ownership with respect to execution venues		
	Conflicts of interest  The Firm may on behalf of its clients during the course of its portfolio management activities, invest in entities who are or whose sub-entities include trading counterparties.  The Firm may on behalf of its clients during the course of its execution management activities, route an order to a counterparty for execution, and that counterparty provides or is affiliated with an entity that provides, prime brokerage services, which the Firm may also utilize.	Conflicts of interest In addition to an investment in a financial services company with a trading counterparty not being an execution factor in choosing execution venues, a separate and distinct Trading and Execution Management function exists which has independent discretion and monitoring of which execution venues are selected in the course of effecting a transaction.  The Firm has automated and ad-hoc reporting and monitoring on best execution, analysing execution factors such as price, likelihood of execution, order size, likelihood of settlement, speed of execution, cost of execution, and other important execution factors, designed to identify outliers in execution quality which would include instances where an execution counterparty and related prime broker are utilized in effecting a transaction, and the overall quality of execution does not meet the Firm's expectations. Deviations in execution quality are escalated and monitored for successful resolution.  Independent monitoring is also performed by the Firm's Execution & Trade Management Committee and Conflicts of Interest Committee, both formal governance and oversight committees. The potential conflicts of interest are therefore appropriately mitigated.
	Common ownerships	Common ownerships
	The Firm has no common ownership to report.	N/A
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received	The Firm has no specific arrangements to report.	N/A
Factors leading to a change in the list of execution venues listed in the Order Execution Policy	The Firm places orders to be executed with approved counterparties (execution venues). The list of approved counterparties is reviewed regularly to ensure that the Firm is able to achieve the highest quality of execution for its clients. A number of factors can be considered for making a change to the approved counterparty list, such as: the counterparty's execution performance, cost, credit worthiness, and responsiveness. There were no	N/A

	changes to the list of execution venues/brokers in the Firm's Order Execution Policy.	
Differentiation across client categories	N/A - all of the Firm's clients are professional clients	N/A
Use of data / tools relating to quality of execution	The Firm uses an in-house Transaction Cost Analysis ("TCA") tool and associated automated and ad-hoc reporting that are designed to assess the quality of execution by analysing implicit and explicit costs that can arise in the course of effecting transactions. The reporting is regularly reviewed by the Trading team and outliers are accordingly escalated to the appropriate team(s) which can include the Portfolio Management teams and Compliance. Furthermore, reporting and escalations are presented to and reviewed by the Firm's Execution & Trade Management Committee, a formal governance and oversight committee that meets at minimum on a quarterly basis. The Execution & Trade Management Committee reviews adherence to the Firm's Best Execution Policy and policies and procedures designed to achieve the highest overall quality of execution for clients. It is attended by senior Investment, Trading, Compliance, Legal, Risk, Technology, and Operations employees.	N/A
	The Firm has not taken into account data from brokers or execution venues under Regulatory Technical Standard 27 ("RTS 27") or RTS 28 because no RTS 27 reports have been produced in respect of 2017 trading, at the time of trading, and third party RTS 28 reports for 2017 trading are not yet generally publicly available. The Firm will evaluate RTS 27 and RTS 28 best execution reports when they are available.	
Use of consolidated tape provider output	The Firm has not used output from relevant consolidated tape providers to monitor execution quality in relation to 2017 because they had not yet been in operation during this time period. The Firm will evaluate its use in its order execution arrangements when they are available.	N/A
Use of DEA	N/A for this Class of instrument	