

Goldman Sachs International: Best Execution Reports under RTS 28

This report has been prepared by Goldman Sachs International ("Goldman Sachs") for the period ending 31 December 2018 (the "Reporting Period") for the purposes of meeting Goldman Sachs' regulatory obligations under Article 65(6) of Commission Delegated Regulation 2017/565 and Article 27(6) of Directive 2014/65/EU ("MiFID II") which requires Goldman Sachs to annually publish (i) the top five venues where it executed clients orders; and (ii) the top five firms to whom it transmitted or placed client orders for execution, in respect of each class of financial instruments noted below. This report also provides information on Goldman Sachs' assessment of the quality of execution it obtained from these execution venues and firms (based on its internal monitoring), for each class of financial instruments. Goldman Sachs does not guarantee the correctness or completeness of the information in this report and shall not be responsible for or have any liability whatsoever for any loss or damage caused by errors, inaccuracies or omissions in connection with use or reliance on this information. Goldman Sachs reserve the right to amend, update or re-state the information contained in this report at any time.

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Equities Shares & Depositary Receipts

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XLON - LONDON STOCK EXCHANGE	62.74	74.88	8.00	92.00	0.00
XJSE - JOHANNESBURG EXCHANGE	22.53	2.20	8.00	92.00	0.00
XETR - XETRA	6.20	11.93	8.00	92.00	0.00
XSWX - SIX SWISS EXCHANGE	3.04	2.51	8.00	92.00	0.00
XSTO - STOCKHOLM STOCK EXCHANGE	2.59	2.83	8.00	92.00	0.00

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
FOR8UP27PHTHYVLBNG30 - GOLDMAN SACHS & CO. LLC	81.62	77.37	8.00	92.00	0.00
5NGPZ37H6T4XS5M05N09 - GOLDMAN SACHS JAPAN CO. LTD.	8.34	12.24	8.00	92.00	0.00
5493009FWOE6CQ1J5K28 - GOLDMAN SACHS (ASIA) SECURITIES LTD	5.25	6.89	8.00	92.00	0.00
YIC3WZ4VOOZQ38Z36K22 - GOLDMAN SACHS SINGAPORE PTE	3.80	3.00	8.00	92.00	0.00
8IBZUGJ7JPLH368JE346 - GOLDMAN SACHS BANK AG ZURICH	0.99	5.20	8.00	92.00	0.00

Equities Shares & Depositary Receipts

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Equities - Shares & Depositary Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)					
Class of Instrument					
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XLON - LONDON STOCK EXCHANGE	77.83	20.69	8.00	92.00	0.00
XSTO - STOCKHOLM STOCK EXCHANGE	8.44	12.26	8.00	92.00	0.00
XPAR - EURONEXT - EURONEXT PARIS	5.10	4.79	8.00	92.00	0.00
XSWX - SIX SWISS EXCHANGE	2.42	17.43	8.00	92.00	0.00
XMIL - MILAN STOCK EXCHANGE	2.07	32.57	8.00	92.00	0.00

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Equities - Shares & Depositary Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)					
Class of Instrument					
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
FOR8UP27PHHYVLBNG30 - GOLDMAN SACHS & CO. LLC	91.40	83.10	8.00	92.00	0.00
5493009FVOWE6CQ1J5K28 - GOLDMAN SACHS (ASIA) SECURITIES LTD	8.26	14.71	8.00	92.00	0.00
8IBZUGJ7JPLH368JE346 - GOLDMAN SACHS BANK AG ZURICH	0.33	2.19	8.00	92.00	0.00

Equities Shares & Depositary Receipts

Reporting Entity: GSI

Top Five Venue Report
Type of Client: Retail Client
Reporting Entity: GSI

Class of Instrument	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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XLON - LONDON STOCK EXCHANGE	41.86	42.59	8.00	92.00	0.00
XETR - XETRA	14.19	22.45	8.00	92.00	0.00
XSTO - STOCKHOLM STOCK EXCHANGE	12.68	5.87	8.00	92.00	0.00
XPAR - EURONEXT - EURONEXT PARIS	7.25	8.79	8.00	92.00	0.00
XSWX - SIX SWISS EXCHANGE	6.57	6.00	8.00	92.00	0.00

Top Five Broker Report
Type of Client: Retail Client
Reporting Entity: GSI

Class of Instrument	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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
8IBZUGJ7JPLH368JE346 - GOLDMAN SACHS BANK AG ZURICH	54.85	90.23	8.00	92.00	0.00
FOR8UP27PHHYVLBN30 - GOLDMAN SACHS & CO. LLC	33.85	6.25	8.00	92.00	0.00
5493009FWOE6CQ1J5K28 - GOLDMAN SACHS (ASIA) SECURITIES LTD	11.31	3.52	8.00	92.00	0.00

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs International (GS) providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

When assessing the relative importance given to execution factors where GS has determined it has a best execution obligation in respect of an order, GS will take into account the following criteria for determining the relative importance of the execution factors in the circumstances:

- the characteristics of the client including the regulatory categorisation of the client;
- the characteristics of the relevant order;
- the characteristics of financial instruments that are the subject of the relevant order; and
- the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS will generally give the highest priority to total consideration for retail clients. The remaining execution factors are generally given equal ranking.

GS may prioritise one or more of the other execution factors if: (i) there is insufficient immediately available liquidity on the relevant execution venues to execute the relevant order in full; or (ii) where a client instructs GS to work a relevant order over a period of time or by reference to a benchmark calculated over a period of time (such as VWAP); or (iii) GS determines that there are other circumstances such that obtaining the best immediately available price may not be the best possible result for the client. In these cases, GS will determine the relative priority of each execution factor on an order-by-order basis, where the order is executed manually, and by order type (e.g. iceberg, VWAP), where the order is executed using an algorithm.

GS uses brokers, including affiliate brokers, to access equities markets for which it does not have a direct membership itself.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division executes shares and depositary receipts via the Securities Division, and where appropriate, other GS affiliates. The Private Wealth Management Division has determined that it can consistently achieve the best results for its clients using a single execution venue. For further details on the execution venues used by the Securities Division please refer to the Securities Division's best execution summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to Private Wealth Management Division's best execution summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

GS is a member of the Goldman Sachs group of companies. The Securities Division of GS may execute transactions in certain asset classes with or through affiliated entities. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilized by GS for execution of client orders.

GS has close links and/or common ownership with respect to the following entities:

SIGMA X MTF – GS is under common ownership with Goldman Sachs International Bank which operates SIGMA X MTF, a multilateral trading facility for trading in European equity and equity-like instruments. SIGMA X MTF is operated on an independent and segregated basis to other Goldman Sachs businesses. GS is itself one of several trading participants on SIGMA X MTF. For further information on SIGMA X MTF please visit the SIGMA X MTF website at <http://gset.gs.com/sigmaxmtf/>

In addition, Goldman Sachs Group entities may have (i) minor, non-controlling ownership stakes in companies which operate or own execution venues and/or; (ii) be founding consortia members of execution venues for which it has revenue share arrangements, which GS may use to execute orders on behalf of clients in certain financial instruments, including

- BIDS Holdings L.P.
- CHX Holdings, Inc.
- Chi-X Global Holdings LLC
- SBI Japannext Co., Ltd.
- National Stock Exchange of India Limited
- Turquoise Global Holdings Limited

GS's decision to route orders to a particular venue for execution is determined by whether execution on such venues allows us to satisfy our best execution obligations and is not influenced by any such ownership or revenue share arrangements.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Some execution venues may offer differing fee plans to trading members depending on the volume and nature/type of a trading activity on the venue as well as fee discounts depending on average volume of trading undertaken. Such arrangements apply equally to all trading members who satisfy the relevant criteria under the execution venues rules. Information on such arrangements is publically available on the relevant execution venues website. GS' decision to route orders to a particular venue for execution is determined by whether execution on such venues allows GS to satisfy its best execution obligations and is not influenced by any such fee structures or volume discounts.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

GS maintains internal procedures for the selection of Brokers, Trading Venues and other Execution Venues, both at the stage of on-boarding and throughout the relationship, in order to satisfy ourselves that those selections enable us to obtain best execution on a consistent basis. These procedures include undertaking due diligence and regular assessments of execution quality.

In response to evolving market structure and client demand GS frequently evaluates existing and new execution venues. GS has added a variety of new execution venues during the reporting period, more specifically systematic internalisers and MTF's offering periodic auction and conditional order type functionality, including:

Systematic Internalisers: Jane St, Sun, Tower, Virtu, XTX, Hudson, Citadel Europe
MTFs (periodic and conditional order books (as applicable)): Acquis, First North Auction on Demand, Nordic Growth Market, ITG Posit, Liquidnet
Primary Markets: Tadawul (Saudi Stock Exchange)

As part of our periodic evaluation of execution venues GS reviews a variety of execution performance metrics, including addressable liquidity, fill rate, mark-outs and latency.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Divisions provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS

to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

Subject to any specific instructions, GS will generally give the highest priority to:

- net price for professional clients; and
- total consideration for retail clients.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS generally did not give precedence over immediate price and cost when executing retail client orders.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS's legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable.

Debt instruments: (i) Bonds

Reporting Entity: GSI

Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Debt instruments: (i) Bonds			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BMTF - BLOOMBERG TRADING FACILITY LIMITED	90.00	88.00	N/A	N/A	N/A
W22LROWP2IHZNBB6K528 - GOLDMAN SACHS INTERNATIONAL	7.00	6.00	N/A	N/A	N/A
MAEL - MARKETAXESS EUROPE LIMITED	3.00	6.00	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Debt instruments: (i) Bonds			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
MNUM2BPBDO7JBYG310 - CITIGROUP GLOBAL MARKETS INC.	12.00	7.00	N/A	N/A	N/A
XKZZ2JZF41MRHTR1V493 - CITIGROUP GLOBAL MARKETS LIMITED	12.00	1.00	N/A	N/A	N/A
ZBUT11V806EZRVTWT807 - J.P. MORGAN SECURITIES LLC	10.00	4.00	N/A	N/A	N/A
RUCOQBLBRPCU4W1NE59 - BMO CAPITAL MARKETS CORP.	6.00	1.00	N/A	N/A	N/A
REYPIEJN7XZHSUION355 - UBS LIMITED	5.00	4.00	N/A	N/A	N/A

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When assessing the relative importance given to execution factors where GS has determined it has a best execution obligation in respect of an order, GS will take into account the following criteria for determining the relative importance of the execution factors in the circumstances:

- the characteristics of the client including the regulatory categorisation of the client;
- the characteristics of the relevant order;
- the characteristics of financial instruments that are the subject of the relevant order; and
- the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS will generally give the highest priority to total consideration for retail clients.

GS may prioritise one or more of the other execution factors if: (i) there is insufficient immediately available liquidity on the relevant execution venues to execute the relevant order in full; or (ii) where a client instructs us to work a relevant order over a period of time; or (iii) GS determines that there are other circumstances such that obtaining the best immediately available price may not be the best possible result for the client. In these cases, GS will determine the relative priority of each execution factor on an order-by-order basis, where the order is executed manually, and by order type.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division utilizes different execution venues to execute client orders. Private Wealth Management operates an "open architecture" model for executing all fixed income trades unless the open architecture platform does not support a certain product or an order is subject to specific instructions. Where this is the case, Private Wealth Management can trade through the GS Securities Division. GS is a member of the Goldman Sachs group of companies. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilized by GS for execution of client orders.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to Private Wealth Management Division's best execution summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

In addition, Goldman Sachs Group entities may have (i) minor, non-controlling ownership stakes in companies which operate or own execution venues and/or; (ii) be founding consortia members of execution venues for which it has revenue share arrangements, which GS may use to execute orders on behalf of clients in certain financial instruments, including:

- Bloomberg
- Market Axess

GS's decision to route orders to a particular venue for execution is determined by whether execution on such venues allows us to satisfy our best execution obligations and is not influenced by any such ownership or revenue share arrangements.

For further details on the execution venues used by the Securities Division and its conflicts of interest policy, please refer to the Securities Division's best execution summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Not applicable.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division executes orders for retail and professional clients.

The Private Wealth Management Division generally gives the highest priority to total consideration for both retail and professional clients. Order execution arrangements will differ to the extent of a client's specific instructions.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS generally did not give precedence over immediate price and cost when executing retail client orders.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS's legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable.

Debt instruments: (ii) Money markets instruments

Reporting Entity: GSI

Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Debt instruments: (ii) Money markets instruments			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BMTF - BLOOMBERG TRADING FACILITY LIMITED	100.00	100.00	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Debt instruments: (ii) Money markets instruments			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
549300228WV14OKZYD84 - NOMURA INTERNATIONAL	29.00	44.00	N/A	N/A	N/A
ZBUT11V806EZRVTWT807 - J.P. MORGAN SECURITIES LLC	16.00	24.00	N/A	N/A	N/A
OXTKY6Q8X53C9ILVV871 - NOMURA SECURITIES INTERNATIONAL	14.00	9.00	N/A	N/A	N/A
U7M81AY481YLOR75625 - MUFG SECURITIES EMEA PLC	13.00	1.00	N/A	N/A	N/A
2HI3YI5320L3RW6NJ957 - HONGKONG AND SHANGHAI BANKING CORPORATION	12.00	4.00	N/A	N/A	N/A

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- the characteristics of the relevant order;
- the characteristics of financial instruments that are the subject of the relevant order; and
- the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS will generally give the highest priority to total consideration for retail clients.

GS may prioritise one or more of the other execution factors if: (i) there is insufficient immediately available liquidity on the relevant execution venues to execute the relevant order in full; or (ii) where a client instructs us to work a relevant order over a period of time; or (iii) GS determines that there are other circumstances such that obtaining the best immediately available price may not be the best possible result for the client. In these cases, GS will determine the relative priority of each execution factor on an order-by-order basis, where the order is executed manually, and by order type.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division utilizes different execution venues to execute client orders. Private Wealth Management operates an "open architecture" model for executing all fixed income trades unless the open architecture platform does not support a certain product or an order is subject to specific instructions. Where this is the case, Private Wealth Management can trade through the GS Securities Division. GS is a member of the Goldman Sachs group of companies. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilized by GS for execution of client orders.

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- Bloomberg
- Market Axess

GS's decision to route orders to a particular venue for execution is determined by whether execution on such venues allows us to satisfy our best execution obligations and is not influenced by any such ownership or revenue share arrangements.

For further details on the execution venues used by the Securities Division and its conflicts of interest policy, please refer to the Securities Division's best execution summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Not applicable.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division executes orders for retail and professional clients.

The Private Wealth Management Division generally gives the highest priority to total consideration for both retail and professional clients. Order execution arrangements will differ to the extent of a client's specific instructions.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS generally did not give precedence to other criteria over immediate price and cost when executing retail client orders.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS's legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable.

Interest rates derivatives: (i) Futures and options admitted to trading on a trading venue

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Interest rates derivatives: (i) 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Interest rates derivatives: (i) Futures and options admitted to trading on a trading venue			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.

Interest rates derivatives: (ii) Swaps, forwards, and other interest rates derivatives

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Interest rates derivatives: (ii) Swaps, forwards, and other Interest rate derivatives					
Notification if <1 average trade per business day in the previous year					
N/A					
Class of Instrument	Interest rates derivatives: (ii) Swaps, forwards, and other Interest rate derivatives				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Interest rates derivatives: (ii) Swaps, forwards, and other Interest rate derivatives					
Notification if <1 average trade per business day in the previous year					
N/A					
Class of Instrument	Interest rates derivatives: (ii) Swaps, forwards, and other Interest rate derivatives				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.

Credit derivatives (i) Futures and options admitted to trading on a trading venue

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Credit derivatives (i) Futures and options admitted to trading on a trading venue			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Credit derivatives (i) Futures and options admitted to trading on a trading venue			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.

Credit derivatives: (ii) Other credit derivatives

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Credit derivatives: (ii) Other credit derivatives			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Credit derivatives: (ii) Other credit derivatives			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.

Currency derivatives: (i) Futures and options admitted to trading on a trading venue

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Currency derivatives: (i) Futures and options admitted to trading on a trading venue			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Currency derivatives: (i) Futures and options admitted to trading on a trading venue			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.

Currency derivatives: (ii) Swaps, forwards, and other currency derivatives

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Currency derivatives: (ii) Swaps, forwards, and other currency derivatives			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
W22LR0WP2IHZNBB6K528 - GOLDMAN SACHS INTERNATIONAL	100.00	100.00	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Currency derivatives: (ii) Swaps, forwards, and other currency derivatives			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs International (GS) providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

These instruments are often traded on a request for quote basis, including where clients approach us for a quote and the client ultimately decides whether to proceed with the transaction based upon the price provided by us and those of other liquidity providers from whom it has sourced quotes. In these circumstances we would not expect clients to be legitimately relying on us to provide best execution and therefore our best execution obligations for these instruments are likely to apply in more limited circumstances.

To the extent we determine we do owe best execution and, subject to any specific instructions, taking into account the criteria above, GS will generally give the highest priority to total consideration for retail clients. Other execution factors, to the extent relevant, are generally given equal ranking.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

Not applicable, as GS is the only execution venue for this class of financial instrument.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Not applicable, as GS is the only execution venue for this class of financial instrument.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Divisions provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

To the extent we determine we do owe best execution and subject to any specific instructions, GS will generally give the highest priority to:

- net price for professional clients; and
- total consideration for retail clients.

Other execution factors, to the extent relevant, are generally given equal ranking.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS will generally not give precedence over immediate price and cost when executing retail client order.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS's legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable

Structured finance instruments

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument	Structured finance instruments				
Notification if <1 average trade per business day in the previous year	N/A				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument	Structured finance instruments				
Notification if <1 average trade per business day in the previous year	N/A				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.

Equity Derivatives: (i) Options and Futures admitted to trading on a trading venue

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Equity Derivatives: (i) Options and Futures admitted to trading on a trading venue					
Class of Instrument	Equity Derivatives: (i) 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XEUR - EUREX	69.92	76.09	5.60	94.40	0.00
IFLL - ICE FUTURES EUROPE - FINANCIAL PRODUCTS DIVISION	30.08	23.91	5.60	94.40	0.00

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Equity Derivatives: (i) Options and Futures admitted to trading on a trading venue					
Class of Instrument	Equity Derivatives: (i) 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
8IBZUGJ7JPLH368JE346 - GOLDMAN SACHS BANK AG ZURICH	100.00	100.00	5.60	94.40	0.00

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs International (GS) providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

These instruments are typically traded only on the execution venue of their listing and therefore client orders in the instrument will determine the execution venue. Application of best execution is therefore limited to liquidity available on the relevant execution venue for the instrument.

When assessing the relative importance given to execution factors where GS has determined it has a best execution obligation in respect of an order, GS will take into account the following criteria for determining the relative importance of the execution factors in the circumstances:

- the characteristics of the client including the regulatory categorisation of the client;
- the characteristics of the relevant order;
- the characteristics of financial instruments that are the subject of the relevant order; and
- the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS will generally give the highest priority to total consideration for retail clients. The remaining factors, to the extent applicable, are generally given equal ranking.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

Private Wealth Management Division executes exchange traded equity options via the Securities Division, and where appropriate, other GS affiliates. For further details on the execution venues used by the Securities Division please refer to the Securities Division's best execution and conflicts of interest policy summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Some execution venues may offer differing fee plans to trading members depending on the volume and nature/type of a trading activity on the venue as well as fee discounts depending on average volume of trading undertaken. Such arrangements apply equally to all trading members who satisfy the relevant criteria under the execution venues rules. Information on such arrangements is publically available on the relevant execution venues website. Our decision to route orders to a particular venue for execution for this asset class is typically driven by the listing of the product the client wishes to trade, and is not influenced by any such fee structures or volume discounts.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Divisions provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

Subject to any specific instructions, GS will generally give the highest priority to:

- net price for professional clients; and
- total consideration for retail clients.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS will generally not give precedence over immediate price and cost when executing retail client order.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS's legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable.

Equity Derivatives: (ii) Swaps and other equity derivatives

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Equity Derivatives: (ii) Swaps and other equity derivatives			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
W22LROWP2IHZNBB6K528 - GOLDMAN SACHS INTERNATIONAL	100.00	100.00	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Equity Derivatives: (ii) Swaps and other equity derivatives			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs International (GS) providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

These instruments are often traded on a request for quote basis, including where clients approach us for a quote and the client ultimately decides whether to proceed with the transaction based upon the price provided by us and those of other liquidity providers from whom it has sourced quotes. In these circumstances we would not expect clients to be legitimately relying on us to provide best execution and therefore our best execution obligations for these instruments are likely to apply in more limited circumstances.

To the extent we determine we do owe best execution and, subject to any specific instructions, taking into account the criteria above, GS will generally give the highest priority to total consideration for retail clients. Other execution factors, to the extent relevant, are generally given equal ranking.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

Not applicable, as GS is the only execution venue for this class of financial instrument.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Not applicable, as GS is the only execution venue for this class of financial instrument.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Divisions provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

To the extent we determine we do owe best execution and subject to any specific instructions, GS will generally give the highest priority to:

- net price for professional clients; and
- total consideration for retail clients.

Other execution factors, to the extent relevant, are generally given equal ranking.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS did not generally give precedence to other criteria over immediate price and cost when executing retail client orders.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS's legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable.

Securitized Derivatives: (i) Warrants and Certificate Derivatives

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Securitized Derivatives: (i) Warrants and Certificate Derivatives				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
W22LR0WP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL	27.10	17.20	N/A	N/A	N/A	
6EWKU0FGVX5QQJHFGT48 - BNP PARIBAS ARBITRAGE SNC	15.30	18.70	N/A	N/A	N/A	
4PQUHN3JPFGNF3BB653 - MORGAN STANLEY & CO. INTERNATIONAL PLC	14.60	18.90	N/A	N/A	N/A	
O2RNE8IBXP4R0TD8PU41 - SOCIETE GENERALE LONDON BRANCH	14.10	15.30	N/A	N/A	N/A	
MP6ISZYBUEU3UXPYFY54 - HSBC BANK PLC	6.00	4.30	N/A	N/A	N/A	

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Securitized Derivatives: (i) Warrants and Certificate Derivatives				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
8IBZUGJ7JPLH368JE346 - GOLDMAN SACHS BANK AG ZURICH	100.00	100.00	N/A	N/A	N/A	

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs International (GS) providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

These instruments are typically traded only on the execution venue of their listing and therefore client orders in the instrument will determine the execution venue. Application of best execution is therefore limited to liquidity available on the relevant execution venue for the instrument.

When assessing the relative importance given to execution factors where GS has determined it has a best execution obligation in respect of an order, GS will take into account the following criteria for determining the relative importance of the execution factors in the circumstances:

- the characteristics of the client including the regulatory categorisation of the client;
- the characteristics of the relevant order;
- the characteristics of financial instruments that are the subject of the relevant order; and
- the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS will generally give the highest priority to total consideration for retail clients.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division utilizes different execution venues to execute client orders. Private Wealth Management operates an "open architecture" model for executing all fixed income trades unless the open architecture platform does not support a certain product or an order is subject to specific instructions. Where this is the case, Private Wealth Management can trade through the GS Securities Division. GS is a member of the Goldman Sachs group of companies. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilized by GS for execution of client orders.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to Private Wealth Management Division's best execution summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to Private Wealth Management Division's best execution summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Not applicable.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

We have revised our execution venue list for this asset class to include an additional issuer on our open architecture platform providing further issuer credit diversification and optionality for our clients.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Divisions provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

Subject to any specific instructions and issuer concentration limits, GS will generally give the highest priority to:

- net price for professional clients. The remaining execution factors, to the extent applicable, are generally given equal ranking; and
- total consideration for retail clients.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

GS did not generally give precedence over immediate price and cost when executing retail client orders. However, credit diversification of a retail client's portfolio; comparison of issuer credit ratings and likelihood of execution were taken into account in certain client specific situations for retail clients.

These factors delivered the best possible result in terms of total consideration to the retail client within the risk framework agreed with the retail client as applicable to the client's portfolio.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable.

Securitized Derivatives: (ii) Other securitized derivatives

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Securitized Derivatives: (ii) Other securitized derivatives			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument		Securitized Derivatives: (ii) Other securitized derivatives			
Notification if <1 average trade per business day in the previous year		N/A			
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.

Commodities derivatives and emission allowances Derivatives: (i) Options and Futures admitted to trading on a trading venue

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument						Commodities derivatives and emission allowances Derivatives: (i) Options and Futures admitted to trading on a trading venue					
Notification if <1 average trade per business day in the previous year						N/A					
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument						Commodities derivatives and emission allowances Derivatives: (i) Options and Futures admitted to trading on a trading venue					
Notification if <1 average trade per business day in the previous year						N/A					
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	

GS did not trade these financial instruments with retail clients.

Commodities derivatives and emission allowances Derivatives: (ii) Other commodities derivatives and emission allowances derivatives

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument						Commodities derivatives and emission allowances Derivatives: (ii) Other commodities derivatives and emission allowances derivatives					
Notification if <1 average trade per business day in the previous year						N/A					
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument						Commodities derivatives and emission allowances Derivatives: (ii) Other commodities derivatives and emission allowances derivatives					
Notification if <1 average trade per business day in the previous year						N/A					
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	
N/A						N/A	N/A	N/A	N/A	N/A	

GS did not trade these financial instruments with retail clients.

Contracts for difference

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument	Contracts for difference				
Notification if <1 average trade per business day in the previous year	N/A				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Reporting Entity: GSI
 Type of Client: Retail Client
 Professional Client

Class of Instrument	Contracts for difference				
Notification if <1 average trade per business day in the previous year	N/A				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.

Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

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					
Class of Instrument	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top five execution venues ranked in terms of trading volumes (descending order)					
XLON - LONDON STOCK EXCHANGE	31.83	44.81	8.00	92.00	0.00
XAMS - EURONEXT - EURONEXT AMSTERDAM	12.04	19.01	8.00	92.00	0.00
XETR - XETRA	8.58	5.59	8.00	92.00	0.00
XMIL - BORSA ITALIANA S.P.A.	6.21	6.76	8.00	92.00	0.00
XSWX - SIX SWISS EXCHANGE	6.12	4.22	8.00	92.00	0.00

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

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					
Class of Instrument	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top five execution venues ranked in terms of trading volumes (descending order)					
FOR8UP27PHTHYVLBNG30 - GOLDMAN SACHS & CO. LLC	90.59	85.14	8.00	92.00	0.00
8IBZUGJ7JPLH368JE346 - GOLDMAN SACHS BANK AG ZURICH	6.36	11.53	8.00	92.00	0.00
5493009FWOE6CQ1J5K28 - GOLDMAN SACHS (ASIA) SECURITIES LTD	1.70	1.95	8.00	92.00	0.00
5NGPZ37H6T4XSSM05N09 - GOLDMAN SACHS JAPAN CO. LTD.	1.35	1.38	8.00	92.00	0.00

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs International (GS) providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

These instruments are typically traded only on the execution venue of their listing and therefore client orders in the instrument will determine the execution venue. Application of best execution is therefore limited to liquidity available on the relevant execution venue for the instrument.

When assessing the relative importance given to execution factors where GS has determined it has a best execution obligation in respect of an order, GS will take into account the following criteria for determining the relative importance of the execution factors in the circumstances:

- the characteristics of the client including the regulatory categorisation of the client;
- the characteristics of the relevant order;
- the characteristics of financial instruments that are the subject of the relevant order; and
- the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS will generally give the highest priority to total consideration for retail clients. The remaining factors, to the extent applicable, are generally given equal ranking.

Notwithstanding the above, we may prioritise one or more of the other execution factors if: (i) there is insufficient immediately available liquidity on the relevant execution venues to execute the relevant order in full; or (ii) where a client instructs us to work a relevant order over a period of time or by reference to a benchmark calculated over a period of time (such as VWAP); or (iii) we determine that there are other circumstances such that obtaining the best immediately available price may not be the best possible result for the client. In these cases, we will determine the relative priority of each execution factor on an order-by-order basis, where the order is executed manually, and by order type (e.g. iceberg, VWAP), where the order is executed using an algorithm.

We have a degree of discretion in how to apply the different execution factors and this may result in a range of different permissible approaches to executing client orders.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division executes shares and depository receipts via the Securities Division, and where appropriate, other GS affiliates. The Private Wealth Management Division has determined that it can consistently achieve the best results for its clients using a single execution venue. For further details on the execution venues used by the Securities Division please refer to the Securities Division's best execution and conflicts of interest policy summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to Private Wealth Management Division's best execution summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

GS is a member of the Goldman Sachs group of companies. The Securities Division of GS may execute transactions in certain asset classes with or through affiliated entities. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilized by GS for execution of client orders.

GS has close links and/or common ownership with respect to the following entities:

SIGMA X MTF – GS is under common ownership with Goldman Sachs International Bank which operates SIGMA X MTF, a multilateral trading facility for trading in European equity and equity-like instruments. SIGMA X MTF is operated on an independent and segregated basis to other Goldman Sachs businesses. GS is itself one of several trading participants on SIGMA X MTF. For further information on SIGMA X MTF please visit the SIGMA X MTF website at <http://gset.gs.com/sigmaxmtf/>

In addition, Goldman Sachs Group entities may have (i) minor, non-controlling ownership stakes in companies which operate or own execution venues and/or; (ii) be founding consortia members of execution venues for which it has revenue share arrangements, which GS may use to execute orders on behalf of clients in certain financial instruments, including:

- BIDS Holdings L.P.
- BOX Holdings Group, LLC
- CHX Holdings, Inc.
- Chi-X Global Holdings LLC
- DME Holdings Limited
- SBI Japannext Co., Ltd.
- LME Holdings Limited
- Nasdaq NFX
- National Commodities & Derivatives Exchange Ltd.
- National Stock Exchange of India Limited
- New York Shipping Exchange (NYSHEX)
- Turquoise Global Holdings Limited
- Tradeweb LLC
- TradX

Our decision to route orders to a particular venue for execution is determined by whether execution on such venues allows us to satisfy our best execution obligations and is not influenced by any such ownership or revenue share arrangements.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Some execution venues may offer differing fee plans to trading members depending on the volume and nature/type of a trading activity on the venue as well as fee discounts depending on average volume of trading undertaken. Such arrangements apply equally to all trading members who satisfy the relevant criteria under the execution venues rules. Information on such arrangements is publically available on the relevant execution venues website. Our decision to route orders to a particular venue for execution is determined by whether execution on such venues allows us to satisfy our best execution obligations and is not influenced by any such fee structures or volume discounts.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

GS maintains internal procedures for the selection of Brokers, Trading Venues and other execution venues, both at the stage of on-boarding and throughout the relationship, in order to satisfy ourselves that those selections enable us to obtain best execution on a consistent basis. These procedures include undertaking due diligence and regular assessments of execution quality.

In response to evolving market structure and client demand GS frequently evaluates existing and new execution venues. As result of the latest market structure changes GS has added a variety of new execution venues, more specifically systematic internalisers and periodic auctions. As part of our regular evaluation of execution venues GS reviews a variety of execution performance metrics, including addressable liquidity, fill rate, mark-outs and latency.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Divisions provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

Subject to any specific instructions and issuer concentration limits, GS will generally give the highest priority to:

- net price for professional clients. The remaining execution factors, to the extent applicable, are generally given equal ranking; and
- total consideration for retail clients.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS will generally give the highest priority to total consideration for its retail clients. If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS's legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable.

Emission Allowances

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument	Emission Allowances				
Notification if <1 average trade per business day in the previous year	N/A				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Reporting Entity: GSI
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument	Emission Allowances				
Notification if <1 average trade per business day in the previous year	N/A				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.

Other instruments

Reporting Entity: GSI
 Top Five Venue Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument	Other instruments				
Notification if <1 average trade per business day in the previous year	N/A				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Top Five Broker Report
 Type of Client: Retail Client
 Reporting Entity: GSI

Class of Instrument	Other instruments				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
FOR8UP27PHHYVLBNG30 - GOLDMAN SACHS & CO. LLC	100.00	100.00	5.00	95.00	0.00

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs International (GS) providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

These instruments are typically traded only on the execution venue of their listing and therefore client orders in the instrument will determine the execution venue. Application of best execution is therefore limited to liquidity available on the relevant execution venue for the instrument.

When assessing the relative importance given to execution factors where GS has determined it has a best execution obligation in respect of an order, GS will take into account the following criteria for determining the relative importance of the execution factors in the circumstances:

- the characteristics of the client including the regulatory categorisation of the client;
- the characteristics of the relevant order;
- the characteristics of financial instruments that are the subject of the relevant order; and
- the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS will generally give the highest priority to total consideration for retail clients. The remaining factors, to the extent applicable, are generally given equal ranking.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

Private Wealth Management Division executes exchange traded equity options via the Securities Division, and where appropriate, other GS affiliates. For further details on the execution venues used by the Securities Division please refer to the Securities Division's best execution and conflicts of interest policy summary which is available at: <http://www.goldmansachs.com/disclosures/mifid/>

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Some execution venues may offer differing fee plans to trading members depending on the volume and nature/type of a trading activity on the venue as well as fee discounts depending on average volume of trading undertaken. Such arrangements apply equally to all trading members who satisfy the relevant criteria under the execution venues rules. Information on such arrangements is publicly available on the relevant execution venues website. Our decision to route orders to a particular venue for execution for this asset class is typically driven by the listing of the product the client wishes to trade, and is not influenced by any such fee structures or volume discounts.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Divisions provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

Subject to any specific instructions, GS will generally give the highest priority to:

- net price for professional clients; and
- total consideration for retail clients.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS will generally not give precedence over immediate price and cost when executing retail client order.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS's legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable.