

Top 5 Execution Venues and Top 5 Brokers Report by Credit Suisse Asset Management (Switzerland) Ltd.

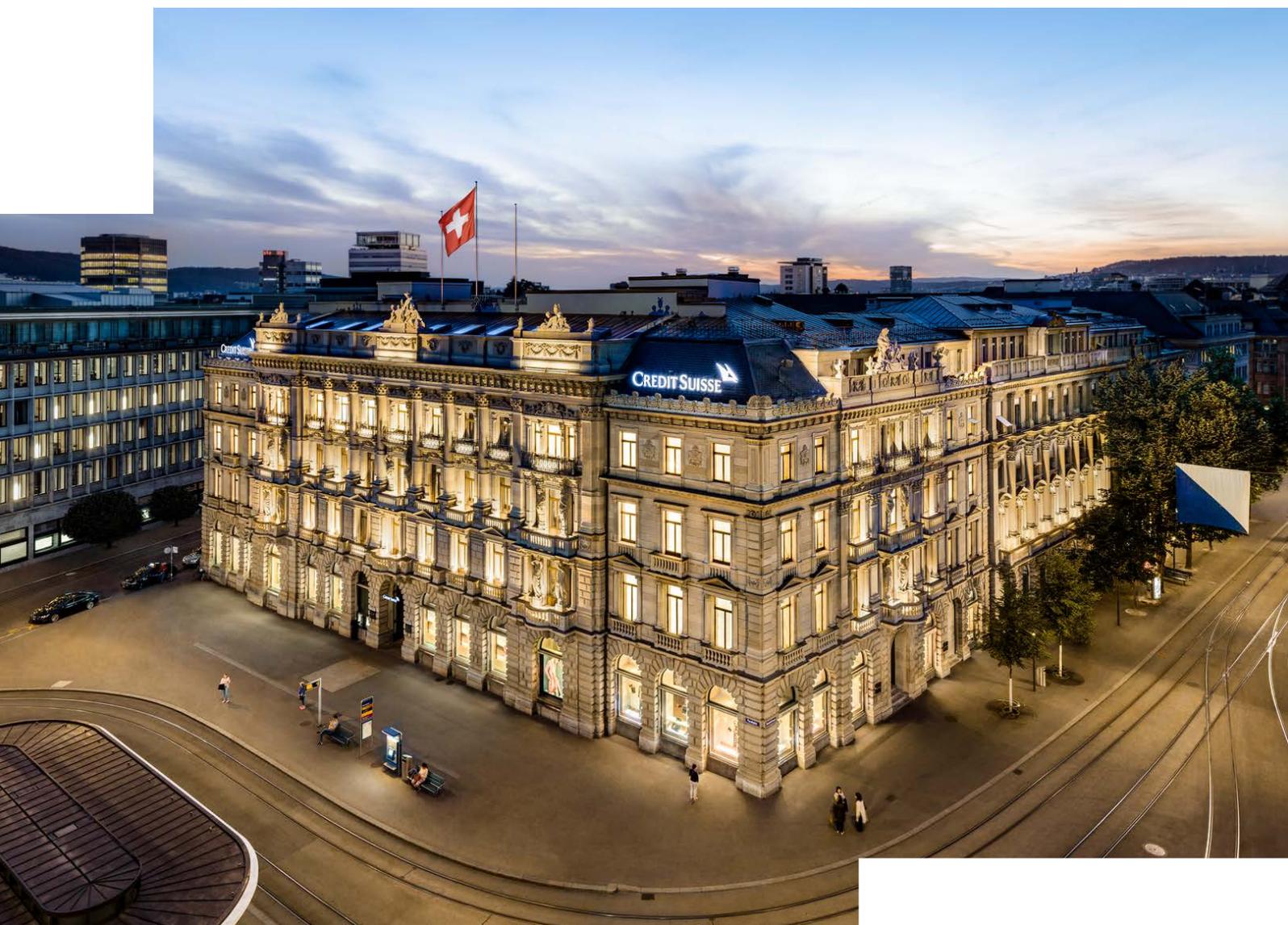


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1. Purpose of this Execution of orders Quality Report

This Report on the Top 5 Execution Venues and Top 5 Brokers (hereafter as “Top 5 Report”) describes the approach of Credit Suisse Asset Management (Switzerland) Ltd. (hereafter as “CSAM”, “we”, or “us”) in identifying the parties to which orders have been transmitted for execution respectively identifies the Execution Venues with whom orders have been executed on behalf of client portfolios.

This Top 5 Report is linked to the Statement on Best Execution Principles of Credit Suisse Asset Management (Switzerland) Ltd (hereafter “Statement”; available on the CSAM website¹) and is also linked to the Report on Best Execution Quality obtained (hereafter as “Quality Report”, also available on the CSAM website). All publications follow the recent developments and disclosure requirements of relevant law by applying the standards of the Markets in Financial Instruments Directive 2014/65/EU (hereafter “MiFID II”). More specifically, this (asset class specific) Top 5 Report refers to the obligations set out in art. 27.6 of MiFID II, art. 65.6 of the Commission Delegated Regulation (EU) 2017/565 and art. 3.1 and 3.2 of Commission Delegated Regulation (EU) 2017/576 (“RTS 28”).

This Report is intended to cover the period from 01/01/2019 to 31/12/2019. As outlined in ESMA’s Q&A on MiFID II and MiFIR investor protection topics, certain aspects of the RTS 28 requirements are tied to new provisions from MiFID II or MiFIR. Given that CSAM, as a Swiss regulated asset manager, is not a firm directly subject to the European MiFID II provisions, it is not obliged to comply with the Best Execution requirements, but endeavors to do so in order to provide the best service to its clients. Thus, this Report may reflect adjustments made by CSAM when applying MiFID II RTS 28 principles.

For clients serviced by Credit Suisse legal entities other than CSAM, please note that there might be separate Top 5 Reports which disclose the transmission and execution details obtained of those legal entities. Please contact your relationship manager for further information.

¹ www.credit-suisse.com/ch/en/asset-management/regulatory/best-execution.html

2. Overview of CSAM Top 5 reports

This table is the full overview of Top 5 reports created by CSAM based on the underlying business for the calendar year 2019. Available reports are indicated with a "yes":

Classes of financial instruments for which Top 5 Reports are created and published following the definition of MiFID II RTS 28 and its Annex I:

	Execution		Transmission	
	Retail	Professional	Retail	Professional
Equities - Shares & Depositary Receipts - Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)		yes	yes	yes
Equities - Shares & Depositary Receipts - Tick size liquidity band 3 and 4 (from 80 to 1 999 trades per day)			yes	yes
Equities - Shares & Depositary Receipts - Tick size liquidity band 5 and 6 (from 2 000 trades per day)			yes	yes
Debt instruments - Bonds	yes	yes		yes
Debt instruments - Money markets instruments	yes	yes		
Interest rates derivatives - Futures and options admitted to trading on a trading venue				
Interest rates derivatives - Swaps, forwards, and other interest rates derivatives		yes		
Credit Derivatives - Futures and options admitted to trading on a trading venue				yes
Credit Derivatives - Other credit derivatives		yes		
Currency Derivatives - Futures and options admitted to trading on a trading venue				yes
Currency Derivatives - Swaps, forwards, and other currency derivatives	yes	yes		
Structured Finance Instruments		yes		
Equity Derivatives - Options and Futures admitted to trading on a trading venue			yes	yes
Equity Derivatives - Swaps and other equity derivatives				
Securitized Derivatives - Warrants and Certificate Derivatives			yes	yes
Securitized Derivatives - Other securitized derivatives				
Commodities Derivatives - Options and Futures admitted to trading on a trading venue				
Commodities Derivatives - Other commodities derivatives		yes		
Contracts for Difference				yes
Exchange Traded Products (Exchange traded funds, exchange traded notes and exchange traded commodities)	yes	yes	yes	yes
Emission Allowances				
Other Instruments				
Securities financing transaction (SFT) (SFTs are repurchase transactions, securities or commodities lending and securities or commodities borrowing, buy-sell back transactions or sell-buy back transactions, margin lending transactions)		yes ²		

If no "yes" is shown, these instruments have not been traded for the relevant client category and for the particular period of this report.

²For period of 2019 in professional orders only. Potential retail orders only to the extent allowed under applicable law.

3. Detailed CSAM Top 5 reports

3.a. Execution reports for professional client orders

Class of Instrument		Equities - Shares & Depositary Receipts - Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
Notification if <1 average trade per business day in the previous year		Yes				
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
Credit Suisse Securities (USA) LLC - 1V8Y6QCX6YMJ20E-LII46		36.46%	26.92%	0.00%	100.00%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		28.18%	28.85%	0.00%	100.00%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		13.20%	5.77%	0.00%	100.00%	0.00%
J.P. Morgan Securities PLC - K6Q0W1PS1L1O4IQL9C32		10.78%	9.62%	0.00%	100.00%	0.00%
BARCLAYS BANK PLC - G5GSEF7VJP5I7OUK5573		6.17%	9.62%	0.00%	100.00%	0.00%

Class of Instrument		Debt instruments - Bonds				
Notification if <1 average trade per business day in the previous year		No				
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
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		9.78%	4.69%	13.85%	86.15%	0.00%
Credit Suisse AG - ANGGYXNX0JLX3X63JN86		7.93%	5.17%	16.99%	83.01%	0.00%
Goldman Sachs International - W22LROWP2IHZNBB6K528		6.97%	6.08%	6.72%	93.28%	0.00%
UBS AG - BFM8T61CT2L1QCEMIK50		6.30%	6.38%	12.40%	87.60%	0.00%
J.P. Morgan Securities PLC - K6Q0W1PS1L1O4IQL9C32		5.63%	5.53%	9.05%	90.95%	0.00%

Class of Instrument		Debt instruments - Money markets instruments				
Notification if <1 average trade per business day in the previous year		No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		22.29%	35.36%	42.56%	57.44%	77.31%
ING Bank N.V. - 3TK20VIUJ8J3ZU0QE75		15.19%	15.16%	1.96%	98.04%	0.00%
UBS AG - BFM8T61CT2L1QCEMIK50		13.18%	10.25%	4.17%	95.83%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		11.26%	8.77%	0.00%	100.00%	0.00%
Credit Suisse AG - ANGGYXNX0JLX3X63JN86		7.75%	5.05%	17.95%	82.05%	0.00%

Class of Instrument	Interest rates derivatives - Swaps, forwards, and other interest rates derivatives				
Notification if <1 average trade per business day in the previous year	Yes				
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
Credit Suisse International - E58DKGMJYYYJLN8C3868	84.31%	88.24%	0.00%	100.00%	0.00%
Zürcher Kantonalbank - 165GRDQ39W63PHVONY02	13.41%	6.72%	0.00%	100.00%	0.00%
BNP PARIBAS - R0MUWSFPU8MPRO8K5P83	2.27%	5.04%	0.00%	100.00%	0.00%
n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a

Class of Instrument	Credit Derivatives - Other credit derivatives				
Notification if <1 average trade per business day in the previous year	No				
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
Credit Suisse International - E58DKGMJYYYJLN8C3868	70.76%	87.54%	0.33%	99.67%	0.00%
BARCLAYS BANK PLC - G5GSEF7VJP5I7OUK5573	19.74%	5.51%	0.00%	100.00%	100.00%
J.P. Morgan Securities PLC - K6Q0W1PS1L1O4IQL9C32	8.31%	6.38%	0.00%	100.00%	0.00%
Deutsche Bank Aktiengesellschaft - 7LTWFZYICNSX-8D621K86	0.90%	0.29%	0.00%	100.00%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493	0.29%	0.29%	0.00%	100.00%	100.00%

Class of Instrument	Currency Derivatives - Swaps, forwards, and other currency derivatives				
Notification if <1 average trade per business day in the previous year	No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144	91.84%	90.03%	47.45%	52.55%	76.38%
BNP Paribas Securities Services SCA - 549300WCGB-70D06XZS54	1.97%	0.50%	49.63%	50.37%	93.85%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493	1.36%	0.52%	0.00%	100.00%	0.00%
Zürcher Kantonalbank - 165GRDQ39W63PHVONY02	1.16%	1.74%	0.00%	100.00%	1.18%
THE BANK OF NEW YORK MELLON SA/NV - MMYX-0N4ZEZ13Z4XCG897	0.79%	1.22%	13.30%	86.70%	100.00%

Class of Instrument	Structured Finance Instruments (Supply Chain Finance Instruments)				
Notification if <1 average trade per business day in the previous year	No				
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
Greensill Capital Securities Limited – Neither MIC nor LEI available	100.00%	100.00%	0.00%	100.00%	100.00%
n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a

Class of Instrument	Exchange traded products				
Notification if <1 average trade per business day in the previous year	No				
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
Jane Street Financial Limited - 549300ZHEHX8M31RP142	22.24%	21.70%	0.00%	100.00%	0.00%
COMMERZBANK Aktiengesellschaft - 851WYG NLUQLFZB-SYGB56	22.18%	31.28%	0.00%	100.00%	0.00%
Susquehanna International Securities Limited - 635400IAV22ZOU1NFS89	16.72%	9.40%	0.00%	100.00%	0.00%
Merrill Lynch International - GGDZP1UYGU9STUHRDP48	9.53%	3.80%	0.00%	100.00%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493	8.23%	5.61%	0.00%	100.00%	0.00%

Class of Instrument	Commodities Derivatives - Other commodities derivatives				
Notification if <1 average trade per business day in the previous year	Yes				
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
UBS AG - BFM8T61CT2L1QCCEMIK50	22.46%	27.66%	0.00%	100.00%	0.00%
Société Générale SA - O2RNE8IBXP4R0TD8PU41	17.73%	7.98%	0.00%	100.00%	0.00%
Merrill Lynch International - GGDZP1UYGU9STUHRDP48	13.79%	17.02%	0.00%	100.00%	0.00%
J.P. Morgan Markets Limited - 5493002SLHKG77FYU25	9.75%	8.51%	0.00%	100.00%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493	8.66%	3.72%	0.00%	100.00%	0.00%

3.b. Execution reports for retail client orders

Class of Instrument		Debt instruments - Bonds				
Notification if <1 average trade per business day in the previous year		No				
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
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		5.94%	6.00%	27.81%	72.19%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		5.72%	4.94%	42.86%	57.14%	0.00%
HSBC BANK PLC - MP6I5ZYZBEU3UXPYFY54		5.60%	4.98%	30.35%	69.65%	0.00%
Zürcher Kantonalbank - 165GRDQ39W63PHVONY02		5.55%	4.94%	33.41%	66.59%	0.00%
J.P. Morgan Securities PLC - K6Q0W1PS1L1O4IQL9C32		5.01%	6.47%	22.34%	77.66%	0.00%

Class of Instrument		Debt instruments - Money markets instruments				
Notification if <1 average trade per business day in the previous year		Yes				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		98.40%	25.00%	0.00%	100.00%	100.00%
Credit Suisse AG - ANGGYXNX0JLX3X63JN86		1.60%	75.00%	0.00%	100.00%	0.00%
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a

Class of Instrument		Currency derivatives - Swaps, forwards, and other currency derivatives				
Notification if <1 average trade per business day in the previous year		Yes				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		61.49%	61.26%	0.00%	100.00%	98.53%
Credit Suisse AG - ANGGYXNX0JLX3X63JN86		26.65%	11.71%	18.75%	81.25%	30.77%
THE BANK OF NEW YORK MELLON SA/NV - MMYX-0N4ZEZ13Z4XCG897		7.29%	15.32%	0.00%	100.00%	100.00%
UBS Switzerland AG - 549300WOIFUSNYH0FL22		4.57%	11.71%	0.00%	100.00%	100.00%
n/a		n/a	n/a	n/a	n/a	n/a

Class of Instrument		Exchange traded products				
Notification if <1 average trade per business day in the previous year		Yes				
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
Jane Street Financial Limited - 549300ZHEHX8M31RP142		41.67%	20.45%	0.00%	100.00%	0.00%
UBS AG - BFM8T61CT2L1QCEMIK50		34.32%	2.27%	0.00%	100.00%	0.00%
COMMERZBANK Aktiengesellschaft - 851WYGNLUQLFZB-SYGB56		15.59%	50.00%	0.00%	100.00%	0.00%
Merrill Lynch International - GGDZP1UYGU9STUHRDP48		3.02%	2.27%	0.00%	100.00%	0.00%
Flow Traders B.V. - 549300CLJI9XDH12XV51		1.93%	6.82%	0.00%	100.00%	0.00%

3.c. Transmission reports for professional client orders

Class of Instrument		Equities - Shares & Depository Receipts - Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
Notification if <1 average trade per business day in the previous year		No				
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
J.P. Morgan Securities PLC - K6Q0W1PS1L1O4IQL9C32		18.66%	19.92%	0.01%	99.99%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		15.70%	17.47%	0.36%	99.64%	1.42%
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		9.55%	9.73%	13.32%	86.68%	0.00%
Goldman Sachs International - W22LROWP2IHZNBB6K528		8.33%	9.71%	0.00%	100.00%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		8.09%	5.27%	0.16%	99.84%	0.00%

Class of Instrument		Equities - Shares & Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1 999 trades per day)				
Notification if <1 average trade per business day in the previous year		No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		31.00%	24.06%	7.51%	92.49%	0.00%
J.P. Morgan Securities PLC - K6Q0W1PS1L1O4IQL9C32		17.82%	17.72%	0.01%	99.99%	0.00%
Goldman Sachs International - W22LROWP2IHZNBB6K528		10.59%	10.09%	0.06%	99.94%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		8.87%	6.43%	0.11%	99.89%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		8.02%	13.05%	0.23%	99.77%	0.64%

Class of Instrument		Equities - Shares & Depository Receipts - Tick size liquidity bands 5 and 6 (from 2 000 trades per day)				
Notification if <1 average trade per business day in the previous year		No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		42.92%	21.98%	0.19%	99.81%	0.00%
J.P. Morgan Securities PLC - K6Q0W1PS1L1O4IQL9C32		15.02%	15.94%	0.16%	99.84%	0.00%
Goldman Sachs International - W22LROWP2IHZNBB6K528		12.10%	12.19%	0.01%	99.99%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		6.41%	12.05%	0.55%	99.45%	0.10%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		4.42%	7.13%	0.12%	99.88%	0.00%

Class of Instrument		Debt instruments - Bonds				
Notification if <1 average trade per business day in the previous year		Yes				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		49.91 %	63.29%	23.08%	76.92%	0.00%
Credit Suisse AG - ANGGYXNX0JLX3X63JN86		43.30%	15.94%	14.71%	85.29%	0.00%
Merrill Lynch International - GGDZP1UYGU9STUHRDP48		6.66%	18.84%	0.00%	100.00%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		0.09%	1.45%	0.00%	100.00%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		0.03%	0.48%	0.00%	100.00%	0.00%

Class of Instrument		Credit Derivatives - Futures and options admitted to trading on a trading venue				
Notification if <1 average trade per business day in the previous year		No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		85.81 %	49.16%	5.44%	94.56%	100.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		11.54%	37.95%	0.00%	100.00%	0.00%
UBS AG - BFM8T61CT2L1QCEMIK50		1.84%	2.27%	0.00%	100.00%	100.00%
Credit Suisse International - E58DKGMJYYYJLN8C3868		0.30%	4.06%	0.00%	100.00%	0.00%
BNP PARIBAS - ROMUWSFPU8MPRO8K5P83		0.19%	2.74%	0.00%	100.00%	0.00%

Class of Instrument		Currency derivatives - Futures and options admitted to trading on a trading venue				
Notification if <1 average trade per business day in the previous year		Yes				
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
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		100.00%	100.00%	0.00%	100.00%	0.00%
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a

Class of Instrument		Equity derivatives - Options and Futures admitted to trading on a trading venue				
Notification if <1 average trade per business day in the previous year		No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		88.51 %	72.37%	0.52%	99.48%	100.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		6.14%	1.53%	0.00%	100.00%	0.00%
Credit Suisse International - E58DKGMJYYYJLN8C3868		3.60%	6.65%	0.00%	100.00%	92.67%
UBS AG - BFM8T61CT2L1QCEMIK50		0.43%	5.14%	0.00%	100.00%	100.00%
Banque Pictet & Cie S.A. - 4LCYDN74UCFU5VPM4774		0.33%	1.44%	0.76%	99.24%	100.00%

Class of Instrument	Securitized Derivatives - Warrants and Certificate Derivatives				
Notification if <1 average trade per business day in the previous year	Yes				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144	79.64%	81.05%	46.26%	53.74%	0.00%
J.P. Morgan Securities PLC - K6Q0W1PS1L1O4IQL9C32	7.82%	4.03%	44.44%	55.56%	0.00%
Banco Bilbao Vizcaya Argentaria Sociedad Anonima - K8MS7FD7N5Z2WQ51AZ71	5.97%	0.40%	0.00%	100.00%	0.00%
UBS AG - BFM8T61CT2L1QCEMIK50	3.63%	4.44%	47.62%	52.38%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14	2.93%	9.68%	0.00%	100.00%	0.00%

Class of Instrument	Contracts for difference				
Notification if <1 average trade per business day in the previous year	No				
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
Goldman Sachs International - W22LROWP2IHZNBB6K528	99.70%	99.70%	0.00%	100.00%	100.00%
UBS AG - BFM8T61CT2L1QCEMIK50	0.30%	0.30%	0.00%	100.00%	100.00%
n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a

Class of Instrument	Exchange traded products				
Notification if <1 average trade per business day in the previous year	No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144	45.85%	95.14%	28.60%	71.40%	0.00%
Goldman Sachs International - W22LROWP2IHZNBB6K528	22.77%	0.26%	7.14%	92.86%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14	12.86%	0.65%	10.09%	89.91%	3.06%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493	6.10%	0.50%	0.00%	100.00%	0.00%
UBS Europe SE - 5299007QVIQ7IO64NX37	5.53%	0.34%	0.00%	100.00%	0.00%

3.d. Transmission reports for retail client orders

Class of Instrument		Equities - Shares & Depository Receipts - Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
Notification if <1 average trade per business day in the previous year		No				
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
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		58.01%	55.01%	0.18%	99.82%	0.00%
Merrill Lynch International - GGDZP1UYGU9STUHRDP48		13.95%	12.85%	0.00%	100.00%	0.00%
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		10.16%	1.75%	52.17%	47.83%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		6.76%	14.90%	0.00%	100.00%	0.00%
Goldman Sachs International - W22LROWP2IHZNBB6K528		4.04%	0.78%	0.00%	100.00%	0.00%

Class of Instrument		Equities - Shares & Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1 999 trades per day)				
Notification if <1 average trade per business day in the previous year		No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		21.10%	10.59%	17.24%	82.76%	0.00%
Merrill Lynch International - GGDZP1UYGU9STUHRDP48		18.90%	12.94%	0.00%	100.00%	0.00%
Citigroup Global Markets Limited - XKZZ2JZF41MRHTR1V493		18.78%	17.25%	0.00%	100.00%	0.00%
Jefferies International Limited - S5THZMDUJCTQZBTRV198		12.42%	1.18%	0.00%	100.00%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		7.95%	15.69%	0.00%	100.00%	0.00%

Class of Instrument		Equities - Shares & Depository Receipts - Tick size liquidity bands 5 and 6 (from 2 000 trades per day)				
Notification if <1 average trade per business day in the previous year		No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		21.03%	22.26%	0.36%	99.64%	0.00%
Goldman Sachs International - W22LROWP2IHZNBB6K528		17.33%	5.44%	0.00%	100.00%	0.00%
UBS AG - BFM8T61CT2L1QCCEMIK50		13.41%	13.00%	0.00%	100.00%	0.00%
Merrill Lynch International - GGDZP1UYGU9STUHRDP48		13.00%	17.95%	0.90%	99.10%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		8.08%	12.84%	0.00%	100.00%	0.00%

Class of Instrument		Equity derivatives - Options and Futures admitted to trading on a trading venue				
Notification if <1 average trade per business day in the previous year		Yes				
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
UBS AG - BFM8T61CT2L1QCCEMIK50		100.00%	100.00%	0.00%	100.00%	100.00%
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a

Class of Instrument		Securitized Derivatives - Warrants and Certificate Derivatives				
Notification if <1 average trade per business day in the previous year		Yes				
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
UBS AG - BFM8T61CT2L1QCCEMIK50		100.00%	100.00%	0.00%	100.00%	0.00%
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a
n/a		n/a	n/a	n/a	n/a	n/a

Class of Instrument		Exchange traded products				
Notification if <1 average trade per business day in the previous year		No				
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
Credit Suisse (Switzerland) Ltd. - 549300CWR0W0BCS9Q144		26.70%	51.00%	6.07%	93.93%	0.00%
J.P. Morgan Securities PLC - K6Q0W1PS1L1O4IQL9C32		25.33%	1.23%	0.00%	100.00%	0.00%
Credit Suisse Securities (Europe) Limited - DL6FFRRLF-74S01HE2M14		12.84%	17.67%	6.61%	93.39%	0.00%
Jane Street Financial Limited - 549300ZHEHX8M31RP142		11.41%	0.61%	0.00%	100.00%	0.00%
Goldman Sachs International - W22LROWP2IHZNBB6K528		10.36%	5.38%	0.00%	100.00%	0.00%

3.e. Execution reports for SFTs

Class of Instrument	Securities financing transaction (SFT)	
Notification if <1 average trade per business day in the previous year	Yes	
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
Credit Suisse AG - ANGGYXNX0JLX3X63JN86	73.52%	63.67%
UBS Switzerland AG - 549300WOIFUSNYH0FL22	23.72%	27.76%
J.P. Morgan Markets Limited - 5493002SLHKGT77FYU25	2.21%	7.76%
UBS AG (incl. London Branch) - BFM8T61CT2L1QCEMIK50	0.54%	0.41%
Zürcher Kantonalbank - 165GRDQ39W63PHVONY02	0.01%	0.41%

Appendix

This Appendix to the overarching CSAM Best Execution Quality Report provides an overview of financial instruments in scope of the CSAM Best Execution Statement and further contains definitions of key terms used throughout the document.

A.1. Financial instruments in scope of this Report

- Transferable securities;
- Money-market instruments³;
- Units in listed / publicly traded collective investment undertakings;
- Options, futures, swaps, forward rate agreements and any other derivative contracts relating to securities, currencies, interest rates or yields, or other derivatives instruments, financial indices or financial measures which may be settled physically or in cash;
- Options, futures, swaps, forward rate agreements and any other derivative contracts relating to commodities that must be settled in cash or may be settled in cash at the option of one of the parties (otherwise than by reason of a default or other termination event);
- Options, futures, swaps, and any other derivative contract relating to commodities that can be physically settled, provided that they are traded on a Regulated Market and/or a MTF;
- Options, futures, swaps, forwards and any other derivative contracts relating to commodities, that can be physically settled not otherwise mentioned above and not being for commercial purposes, which have the characteristics of other derivative Financial Instruments, having regard to whether, inter alia, they are cleared and settled through recognized clearing houses or are subject to regular margin calls;
- Derivative instruments for the transfer of credit risk;
- Financial contracts for differences;
- Options, futures, swaps, forward rate agreements and any other derivative contracts relating to climatic variables, freight rates, emission allowances or inflation rates or other official economic statistics that must be settled in cash or may be settled in cash at the option of one of the parties (otherwise than by reason of a default or other termination event), as well as any other derivative contracts relating to assets, rights, obligations, indices and measures not otherwise mentioned in this Section, which have the characteristics of other derivative Financial Instruments, having regard to whether, inter alia, they are traded on a Regulated Market or an MTF, are cleared and settled through recognized clearing houses or are subject to regular margin calls.

³ Excluding Money Market instruments that meet the definition of spot contract according to Article 10 (2) of the Commission Delegated Regulation (EU) 2017/565 supplementing Directive 2014/65/EU

A.2. Definitions

Broker	A Broker is a street-side counterparty or affiliated provider through which CSAM transmits orders on behalf of client portfolios for execution.
Credit Suisse International Trading Solutions ("CS ITS")	CS ITS is a network and joint venture consisting of several Credit Suisse legal entities providing transmission and execution services to various Credit Suisse entities and as such also to CSAM.
Eligible Counterparty	Eligible Counterparties are investment firms; credit institutions; insurance companies; UCITS and their management companies; pension funds and their management companies; other financial institutions authorized or regulated under community legislation or the national law of a Member State; undertakings exempted from the application of this Directive under Article 2(1)(k) and (l); national governments and their corresponding offices including public bodies that deal with public debt; central banks; and supranational organizations (Definition Directive 2004/39/EC, art. 24 (2)).
Execution Quality Report	Under MiFID II Execution Venues are required to report on the execution quality achieved, published on a quarterly basis.
Execution Venue	Execution Venue refers to regulated markets, MTFs or OTFs and other liquidity providers or entities that perform a similar function.
Financial instrument	Financial Instrument is defined in Appendix A.1.
Investment Firm	Investment Firm means any legal person whose regular occupation or business is the provision of one or more investment services to third parties and/or the performance of one or more investment activities on a professional basis.
Market Operator	Market Operator means a person or persons who manages and/or operates the business of a regulated market and may be the regulated market itself.
MiFID II	Markets in Financial Instruments Directive 2014/65/EU of 15 May 2014 ("MiFID II").
Multilateral Trading Facility ("MTF")	Multilateral Trading Facility ("MTF") means a multilateral system, operated by an investment firm or a Market Operator, which brings together multiple third party buying and selling interests in Financial Instruments.
Organized Trading Facility ("OTF")	Organized trading facility ("OTF") means a multilateral system which is not a regulated market or an MTF, and in which multiple third-party buying and selling interests in bonds, structured finance products, emission allowances or derivatives are able to interact in the system in a way that results in a contract in accordance with the Directive.
Orders / transactions on behalf of client portfolios	Orders /transactions on behalf of client portfolios summarizes an investment decision and subsequent order placement undertaken by a CSAM portfolio manager who is the appointed attorney to execute or transmit a transaction on behalf of client portfolios in any of the financial instruments listed in Appendix A.1.
Professional Client	Professional Client means a client who possesses the experience, knowledge and expertise to be able to appropriately assess the risks associated with their own investment decisions (e.g. financial institutions, other authorized or regulated institutions, collective investment schemes and management companies of such schemes, pension funds, and other institutional investors). Retail Clients who fulfill two out of three criteria set up to demonstrate their knowledge and experience might also be considered Professional Clients upon their own request.

Regulated market	Regulated market means a multilateral system operated and/or managed by a market operator, which brings together or facilitates the bringing together of multiple third party buying and selling interests in Financial Instruments.
Retail Client	Retail Client means a client who is not a Professional Client.
Total Consideration	Price of the financial instrument and the costs relating to execution, which shall include all expenses incurred by the client that are directly relating to the execution of the order, including Execution Venue fees, clearing and settlement fees and any other fees paid to third parties involved in the execution of the order.
Trading Venue	Trading venue means any Regulated Market, MTF or OTF as defined by MiFID II.

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