



Jan 01, 2017 to Dec 31, 2017

Vanguard Asset Management

Investment Service – Portfolio Management/Reception and Transmission Professional Clients

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)
Notification if < 1 average trade per business day in the previous year	N

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Instinet Group, LLC	19.17	9.20	11.70	22.48	0.00
Goldman Sachs International	15.58	5.79	8.48	14.16	0.00
Merrill Lynch, Pierce, Fenner & Smith Incorporated	12.01	5.29	16.30	25.16	0.00
Goldman Sachs & Co. LLC	10.97	24.91	0.52	1.76	0.00
Exane Limited	8.42	3.69	21.97	19.84	0.00

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