

SwapsInfo Third Quarter of 2019 and Year-to-September 30, 2019 Review

The ISDA SwapsInfo Quarterly Review provides analysis of interest rate derivatives (IRD) and credit derivatives trading activity. The report provides a breakdown of cleared and non-cleared activity, swap execution facility (SEF) and off-SEF traded notional, product taxonomy and currency.

IRD and credit derivatives traded notional and trade count data is taken from the ISDA SwapsInfo website (swapsinfo.org), using information from the Depository Trust & Clearing Corporation and Bloomberg swap data repositories (SDRs). This report covers only trades required to be disclosed under US regulations.

KEY HIGHLIGHTS FOR THE THIRD QUARTER OF 2019 AND YEAR-TO-SEPTEMBER 30, 2019

Interest Rate Derivatives

IRD traded notional and trade count continued to increase in the third quarter of 2019. IRD traded notional and trade count rose by 28.2% and 33.7%, respectively, compared with the third quarter of 2018. Single currency fixed-for-floating interest rate swaps (IRS) traded notional increased by 17.7%, and forward rate agreements (FRAs) and overnight index swaps (OIS) traded notional grew by 21.5% and 67.7%, respectively, in the third quarter of 2019 compared to the third quarter of 2018.

In the nine months to September 30, 2019, IRD traded notional and trade count rose by 15.2% and 14.8%, respectively, compared to the first nine months of 2018.

In the third quarter of 2019:

- IRD traded notional rose to \$69.0 trillion from \$53.9 trillion in the third quarter of 2018. Trade count grew to 405,799 from 303,615 over the same period. Single currency fixed-for-floating IRS traded notional increased to \$18.7 trillion from \$15.9 trillion. FRA traded notional rose to \$22.7 trillion from \$18.7 trillion, and OIS traded notional increased to \$19.6 trillion from \$11.7 trillion in the third quarter of 2018.
- Single currency fixed-for-floating IRS accounted for 64.9% of total IRD trades but represented only 27.1% of IRD traded notional. FRAs and OIS represented 32.9% and 28.5% of traded notional and 13.8% and 6.4% of total trade count, respectively.
- Cleared IRD transactions represented 90.0% of total traded notional and 83.4% of trade count. 95.9% of fixed-for-floating IRS, 99.5% of FRA, 97.0% of OIS and 31.2% of other IRD traded notional was cleared in the third quarter of 2019.
- SEF-traded IRD represented 55.4% of total traded notional and 60.9% of trade count. About 58.4% of fixed-for-floating IRS, 78.4% of FRA, 32.9% of OIS and 37.7% of other IRD traded notional was executed on SEFs in the third quarter of 2019.

- IRD contracts denominated in US dollars comprised 66.9% of traded notional and 53.2% of trade count. Euro-denominated transactions accounted for 14.8% of traded notional and 16.9% of trade count.
- Fixed-for-floating IRS, FRA and OIS contracts denominated in US dollars increased by 18.7%, 28.2% and 56.9%, respectively, compared with the third quarter of 2018. Euro-denominated IRS, FRAs and OIS increased by 22.6%, 12.8% and 176.6%, respectively.

Year-to-September 30, 2019:

- IRD traded notional increased to \$207.0 trillion from \$179.6 trillion in the nine months to September 30, 2018. Trade count grew to 1,152,640 from 1,004,141. Single currency fixed-for-floating IRS traded notional increased to \$57.5 trillion from \$53.8 trillion. FRA traded notional rose to \$73.4 trillion from \$61.2 trillion, and OIS traded notional increased to \$52.1 trillion from \$39.8 trillion in the nine months to September 30, 2018.
- Single currency fixed-for-floating IRS accounted for 63.6% of total IRD trades but represented only 27.8% of IRD traded notional in the nine months to September 30, 2019. FRAs and OIS represented 35.5% and 25.2% of traded notional and 15.9% and 6.0% of total trade count, respectively.
- Cleared IRD transactions represented 89.3% of total traded notional, compared with 87.9% in the first nine months of 2018. 95.9% of fixed-for-floating IRS, 99.5% of FRA, 96.0% of OIS and 27.1% of other IRD traded notional was cleared in the nine months to September 30, 2019.
- SEF-traded swaps represented 57.7% of total traded notional, compared with 56.8% in the nine months to September 30, 2018. 58.7% of fixed-for-floating IRS, 81.1% of FRA, 32.7% of OIS and 37.6% of other IRD traded notional was executed on SEFs in the nine months to September 30, 2019.
- IRD contracts denominated in US dollars comprised 66.7% of traded notional and 53.5% of trade count. Euro-denominated transactions accounted for 13.3% of traded notional and 15.3% of trade count.

Credit Derivatives

Credit derivatives traded notional and trade count increased by 23.4% and 20.0%, respectively, in the third quarter of 2019 compared with the third quarter of 2018¹. There was more trading activity across all major indices, including CDX HY, CDX IG and iTraxx Europe.

In the nine months to September 30, 2019, credit derivatives traded notional decreased by 2.0%, while trade count increased by 2.0%, compared to the first nine months of 2018. The decline was mainly driven by a decrease in iTraxx Europe traded notional.

In the third quarter of 2019:

- Credit derivatives traded notional increased to \$2.3 trillion from \$1.9 trillion in the third quarter of 2018. Trade count rose to 61,103 from 50,922 over the same period. CDX HY traded notional increased by 48.5% to \$387.0 billion from \$260.6 billion in the third quarter of 2018. CDX IG traded notional increased by 51.6% to \$902.9 billion from \$595.4 billion in the third quarter of 2018. iTraxx Europe traded notional grew by 21.8% to \$452.2 billion from \$371.2 billion in the third quarter of 2018.
- CDX HY and CDX IG represented 16.6% and 38.6% of traded notional and 29.2% and 25.9% of total trade count, respectively. iTraxx Europe accounted for 19.3% of total credit derivatives traded notional and 15.3% of total trade count.
- Cleared transactions represented 81.3% of total traded notional and 82.5% of trade count. 97.4% of CDX HY, 99.0% of CDX IG, 91.5% of iTraxx Europe and 36.3% of other credit derivatives traded notional was cleared.
- SEF-traded credit derivatives represented 78.4% of total traded notional and 79.7% of trade count. 96.9% of CDX HY, 98.0% of CDX IG, 88.4% of iTraxx Europe and 29.0% of other credit derivatives traded notional was executed on SEFs.
- Credit derivatives contracts denominated in US dollars represented 70.1% of total traded notional and 71.6% of trade count. Euro-denominated transactions accounted for 29.5% and 27.7% of traded notional and trade count, respectively.

¹ Credit derivatives are mostly comprised of CDS indices, but also include CDS index tranches, credit swaptions, exotic products, total return swaps and insignificant amount of single name CDS

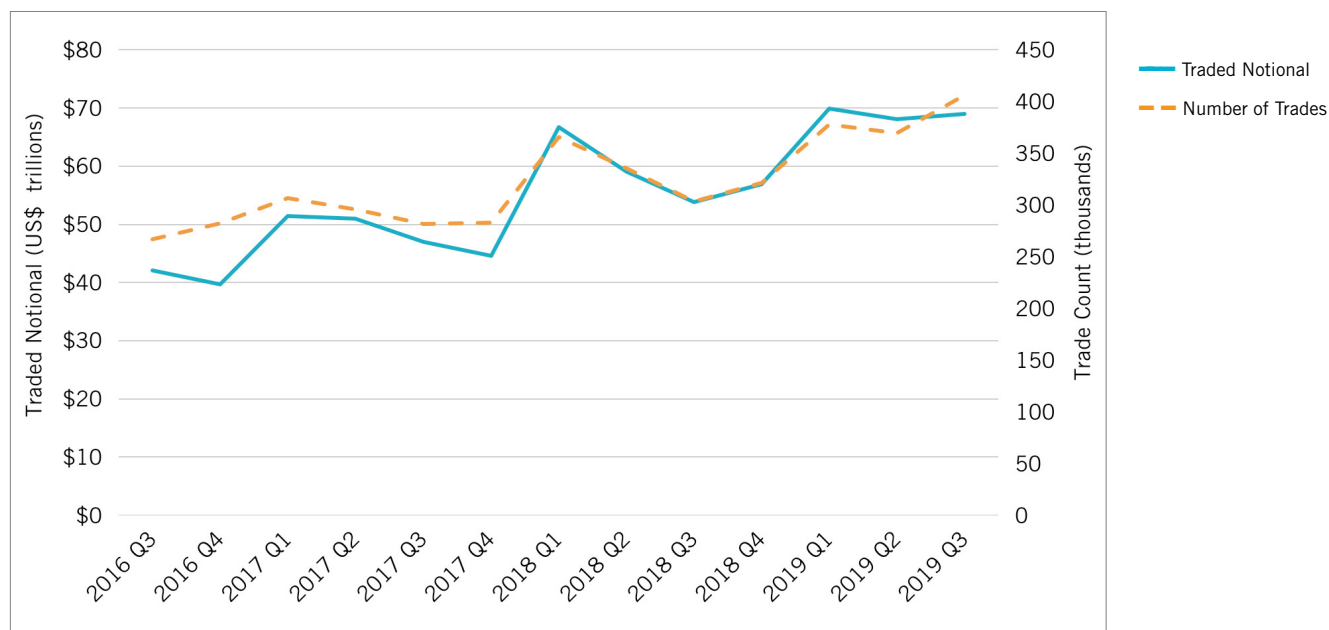
Year-to-September 30, 2019:

- Credit derivatives traded notional decreased to \$6.7 trillion from \$6.8 trillion in the nine months to September 30, 2018. Trade count grew to 182,831 from 179,178 over the same period. CDX HY traded notional rose by 5.6% to \$1.1 billion from \$1.0 billion in the first nine months of 2018, and CDX IG traded notional grew by 12.1% to \$2.5 trillion from \$2.3 trillion over the same period. iTraxx Europe traded notional decreased by 11.1% to \$1.2 trillion in the nine months to September 30, 2019 from \$1.3 trillion in the nine months to September 30, 2018.
 - CDX HY and CDX IG represented 16.5% and 37.7% of traded notional and 28.8% and 24.9% of total trade count, respectively. iTraxx Europe accounted for 17.8% of total credit derivatives traded notional and 13.6% of total trade count.
 - Cleared transactions represented 80.8% of total traded notional. 97.7% of CDX HY, 98.9% of CDX IG, 93.3% of iTraxx Europe and 38.6% of other credit derivatives traded notional was cleared.
 - SEF-traded credit derivatives represented 77.5% of total traded notional. 97.0% of CDX HY, 98.0% of CDX IG, 90.0% of iTraxx Europe and 30.3% of other credit derivatives traded notional was executed on SEFs.
 - Credit derivatives contracts denominated in US dollars represented 70.5% of traded notional and 72.1% of trade count. Euro-denominated transactions accounted for 29.0% and 27.3% of traded notional and trade count, respectively.
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INTEREST RATE DERIVATIVES

During the third quarter of 2019, IRD traded notional rose by 28.2% to \$69.0 trillion from \$53.9 trillion the third quarter of 2018. Trade count grew by 33.7% over the same period, to 405,799 from 303,615.

IRD Traded Notional and Trade Count

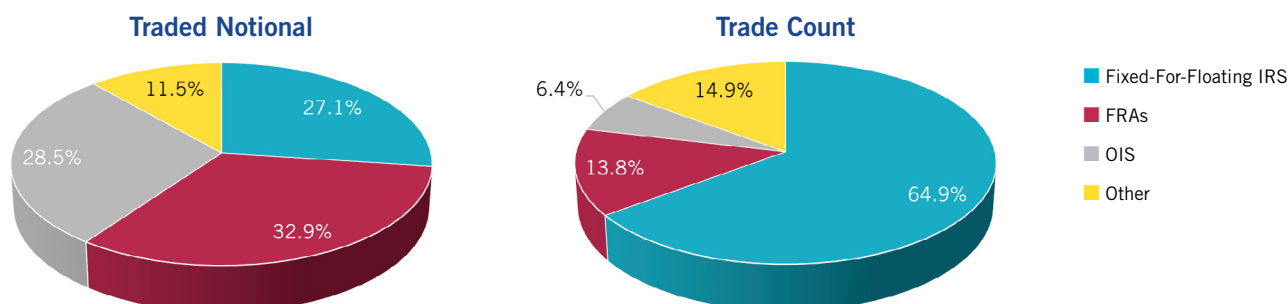


Source: DTCC and Bloomberg SDRs

In the nine months to September 30, 2019, IRD traded notional increased by 15.2% to \$207.0 trillion from \$179.6 trillion in the nine months to September 30, 2018. Trade count increased by 14.8% to 1.2 million from 1.0 million over the same period.

IRD Statistics: Product Taxonomy

Single currency fixed-for-floating IRS accounted for 64.9% of total IRD trade count, but represented only 27.1% of IRD traded notional in the third quarter of 2019. FRAs and OIS represented 32.9% and 28.5% of total traded notional and 13.8% and 6.4% of trade count, respectively.



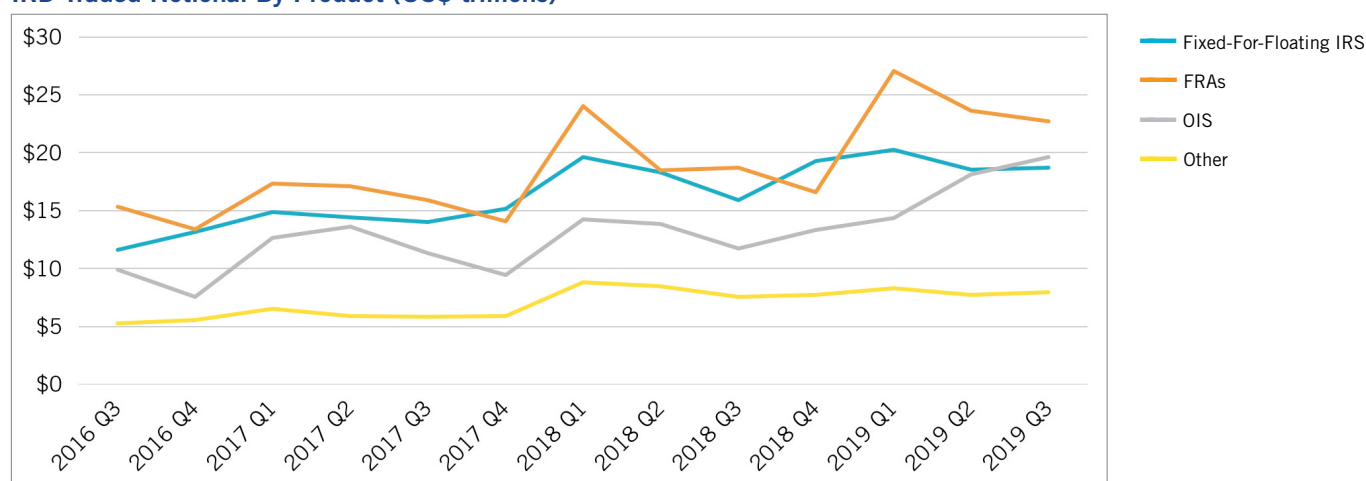
Source: DTCC and Bloomberg SDRs

Fixed-for-floating IRS traded notional increased by 17.7% from \$15.9 trillion in the third quarter of 2018 to \$18.7 trillion in the third quarter of 2019. IRS trade count increased by 34.1% from 196,227 to 263,200 over the same period. IRS traded notional increased by 6.8% from \$53.8 trillion in the nine months to September 30, 2018 to \$57.5 trillion in the nine months to September 30, 2019. Trade count grew by 12.6% over the same period.

FRA traded notional increased by 21.5% from \$18.7 trillion in the third quarter of 2018 to \$22.7 trillion in the third quarter of 2019. Trade count increased by 24.1% from 45,236 to 56,141 over the same period. FRA traded notional increased by 20.0% from \$61.2 trillion in the nine months to September 30, 2018 to \$73.4 trillion in the nine months to September 30, 2019. Trade count increased by 21.4% from 151,092 to 183,480 over that period.

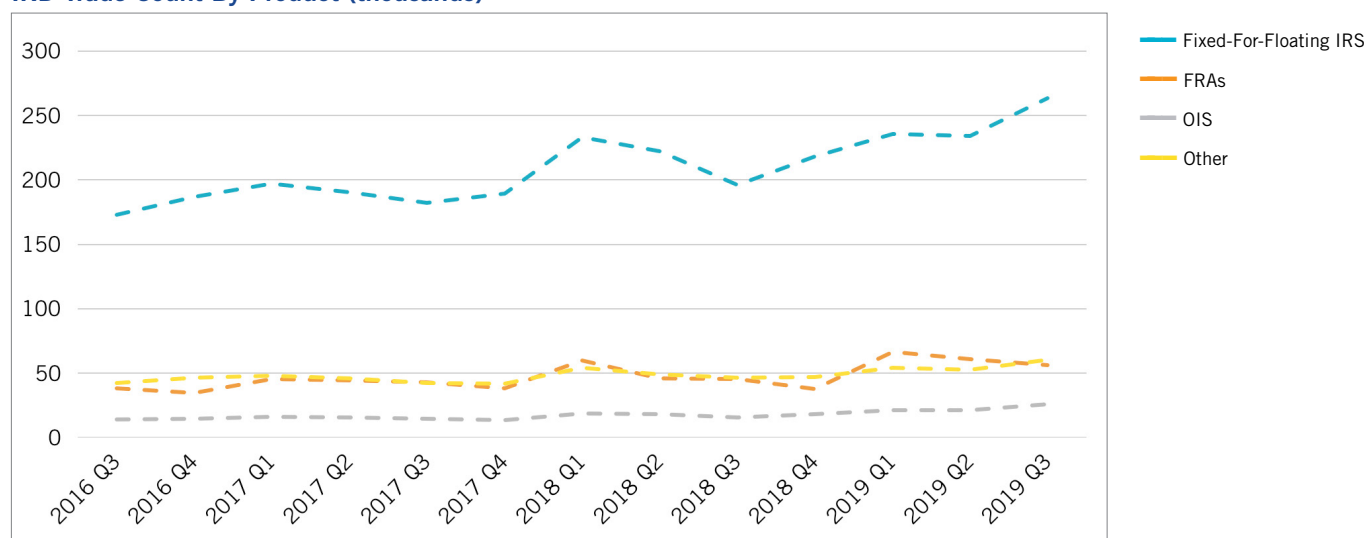
OIS traded notional increased by 67.7% from \$11.7 trillion in the third quarter of 2018 to \$19.6 trillion in the third quarter of 2019. Traded notional grew by 31.1% from \$39.8 trillion in the nine months to September 30, 2018 to \$52.1 trillion in the nine months to September 30, 2019. OIS trade count increased by 68.6% in the third quarter of 2019 compared with the third quarter of 2018, and increased by 32.0% in the year-to-September 30, 2019 compared with year-to September 30, 2018.

IRD Traded Notional By Product (US\$ trillions)



Source: DTCC and Bloomberg SDRs

IRD Trade Count By Product (thousands)



Source: DTCC and Bloomberg SDRs

IRD Statistics: Average Daily Traded Notional, Trade Count and Trade Size Quarterly Statistics

In the third quarter of 2019, fixed-for-floating IRS average daily traded notional increased by 15.9% compared with the third quarter of 2018 and totaled \$283.3 billion. Fixed-for-floating IRS average daily trade count increased by 32.1%, while average trade size decreased by 11.4% in the third quarter of 2019 compared with the third quarter of 2018.

FRA average daily traded notional totaled \$344.3 billion in the third quarter of 2019, 19.6% higher compared with the third quarter of 2018. FRA average daily trade count increased by 22.2%, while average trade size decreased by 6.5% in the third quarter of 2019 compared with the third quarter of 2018.

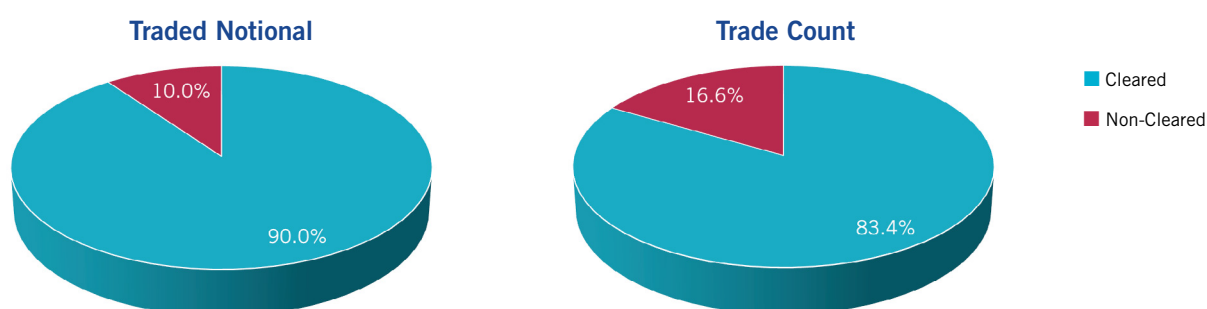
OIS average daily traded notional was \$297.5 billion in the third quarter of 2019, a 65.2% increase compared with the third quarter of 2018. OIS average daily trade count and average trade size increased by 66.0% and 1.5%, respectively, over the same period.

	Average Daily Traded Notional (US\$ billions)			Average Daily Trade Count			Average Trade Size (US\$ millions)		
	IRS	FRA	OIS	IRS	FRA	OIS	IRS	FRA	OIS
Q3 2019	283.3	344.3	297.5	3,988	851	395	71.5	810.4	756.8
Q3 2018	244.4	287.9	180.1	3,019	696	238	80.7	866.8	745.4
Q3 2019 vs. Q3 2018	15.9%	19.6%	65.2%	32.1%	22.2%	66.0%	-11.4%	-6.5%	1.5%
Year-to-Sept. 30, 2019	296.6	383.1	268.4	3,778	957	353	78.9	773.4	758.8
Year-to-Sept. 30, 2018	275.9	319.3	205.0	3,339	788	268	82.2	812.6	753.1
Year-over-year change	7.5%	20.0%	30.9%	13.1%	21.4%	31.8%	-4.0%	-4.8%	0.8%

Source: DTCC and Bloomberg SDRs

IRD Statistics: Central Clearing

Cleared IRD transactions represented 90.0% of total IRD traded notional and 83.4% of trade count during the third quarter of 2019. IRD cleared notional was \$62.1 trillion and total trade count was 338,354.

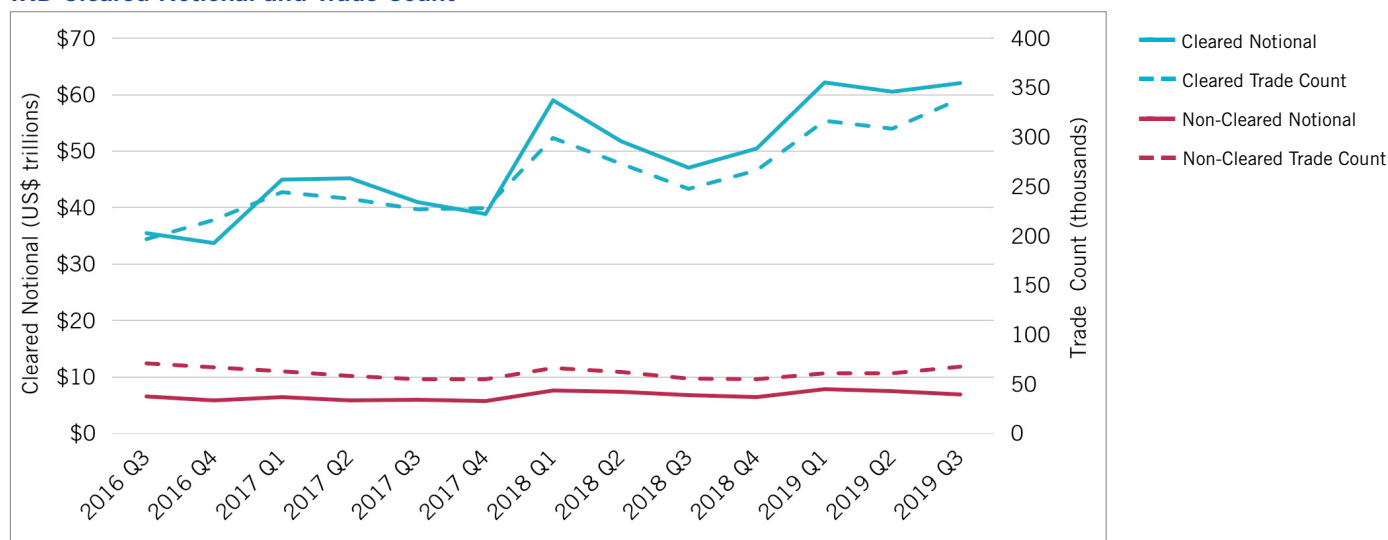


Source: DTCC and Bloomberg SDRs

IRD cleared notional increased by 31.9% from \$47.1 trillion in the third quarter of 2018 to \$62.1 trillion in the third quarter of 2019. Cleared trade count grew by 36.5% over the same period, from 247,790 to 338,354. IRD non-cleared notional grew by 2.2% from \$6.8 trillion in the third quarter of 2018 to \$6.9 trillion in the third quarter of 2019. Trade count increased by 20.8% over the same period, from 55,825 to 67,445.

IRD cleared notional increased by 17.1% in the nine months to September 30, 2019 versus the same period in 2018, from \$157.8 trillion to \$184.8 trillion. Trade count grew by 17.5% from 819,929 to 963,311 over the same period. IRD non-cleared notional rose by 1.9% from \$21.8 trillion in the nine months to September 30, 2018 to \$22.2 trillion in the nine months to September 30, 2019. Trade count increased by 2.8% from 184,212 to 189,329 over the same period.

IRD Cleared Notional and Trade Count

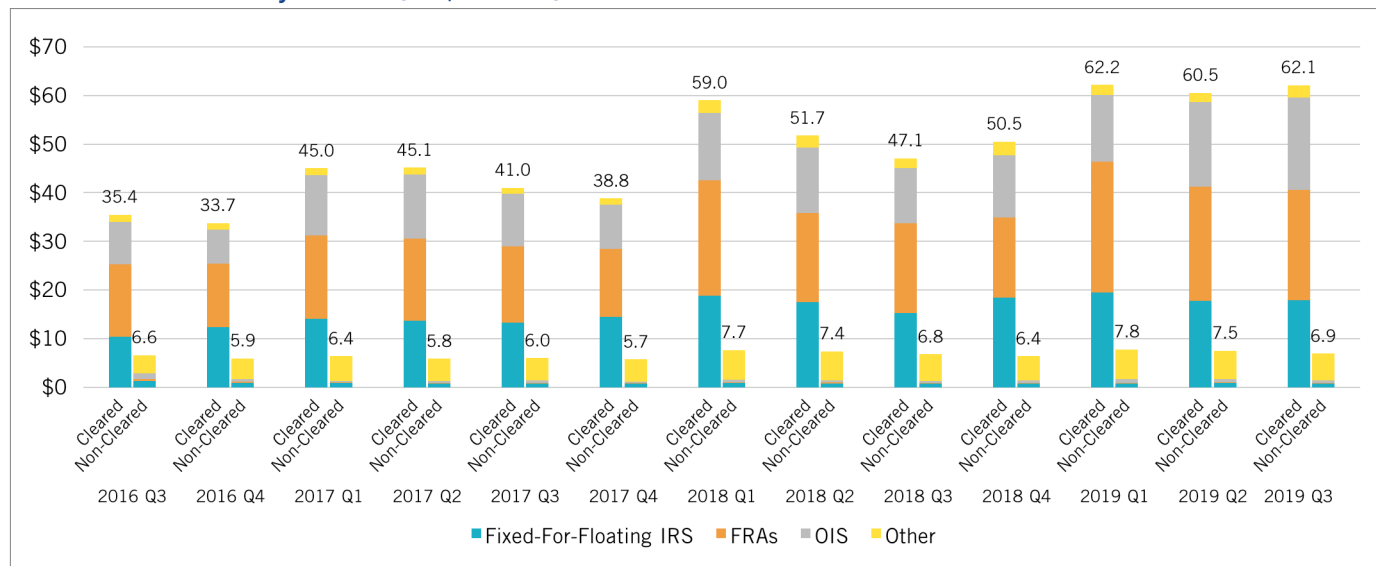


Source: DTCC and Bloomberg SDRs

In the third quarter of 2019, \$17.9 trillion (95.9%) of fixed-for-floating IRS traded notional was cleared and \$769.8 billion was non-cleared. The notional amount of cleared FRAs and OIS was \$22.6 trillion (99.5%) and \$19.1 trillion (97.0%), respectively. Over the same period, \$2.5 trillion (31.2%) of other IRD products notional was cleared and \$5.5 trillion was non-cleared.

In the nine months to September 30, 2019, \$55.1 trillion (95.9%) of fixed-for-floating IRS traded notional was cleared and \$2.4 trillion was non-cleared. \$73.1 trillion (99.5%) of FRAs and \$50.1 trillion (96.0%) of OIS was cleared. \$6.5 trillion (27.1%) of other IRD products notional was cleared and \$17.5 trillion was non-cleared.

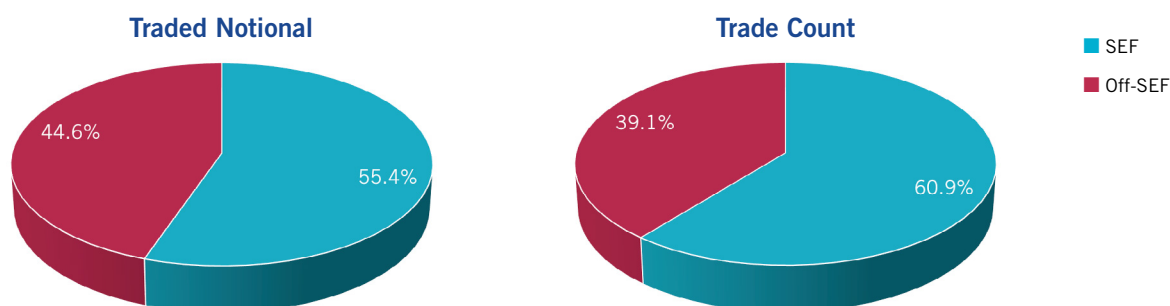
IRD Cleared Notional by Product (US\$ trillions)



Source: DTCC and Bloomberg SDRs

IRD Statistics: Trading Venue

In the third quarter of 2019, SEF-traded IRD represented 55.4% of total IRD traded notional and 60.9% of trade count. IRD traded notional executed on SEFs was \$38.2 trillion, while \$30.8 trillion was executed off-SEF. 246,989 transactions were executed on SEFs and 158,810 transactions occurred off-SEF.

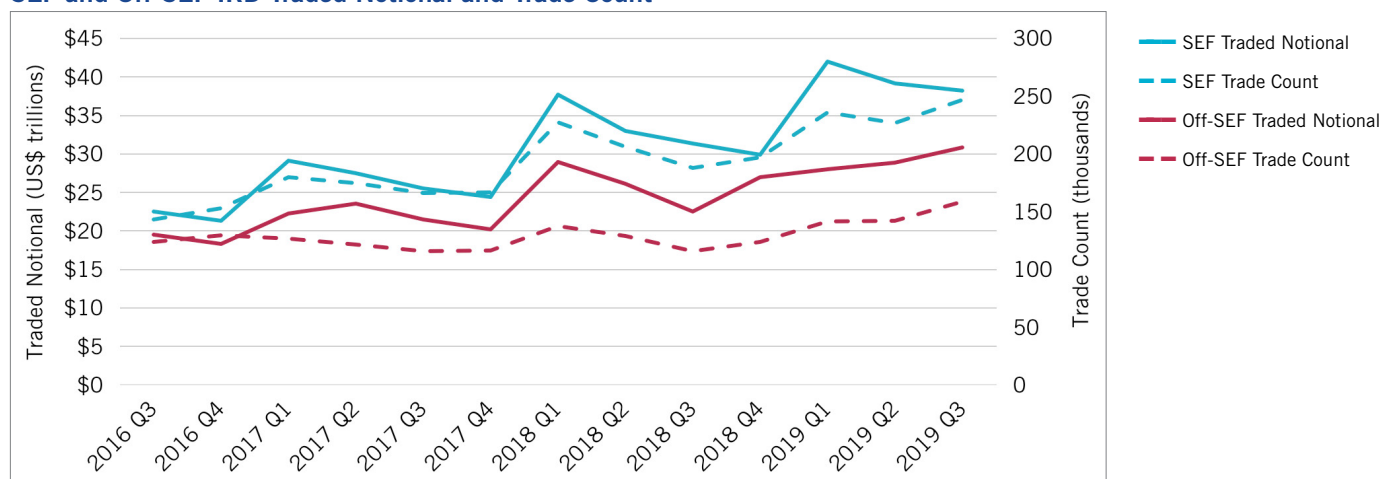


Source: DTCC and Bloomberg SDRs

In the third quarter of 2019, IRD traded notional executed on SEFs grew by 21.9% compared with the third quarter of 2018, from \$31.3 trillion to \$38.2 trillion. The number of trades executed on SEFs increased by 31.6% from 187,654 to 246,989 over the same period. IRD traded notional executed off-SEF increased by 36.8% from \$22.5 trillion in the third quarter of 2018 to \$30.5 trillion in the third quarter of 2019. The number of transactions increased by 37.0% over the same period, from 115,961 to 158,810.

In the nine months to September 30, 2019, IRD traded notional executed on SEFs rose by 16.9% to \$119.3 trillion from \$102.1 trillion in the first nine months of 2018. Trade count increased by 14.2% from 621,636 to 710,025 over the same period. IRD traded notional executed off-SEF grew by 13.0% from \$77.6 trillion in the nine months to September 30, 2018 to \$87.7 trillion in the nine months to September 30, 2019. The number of transactions increased by 15.7% over the same period, from 382,505 to 442,615.

SEF and Off-SEF IRD Traded Notional and Trade Count

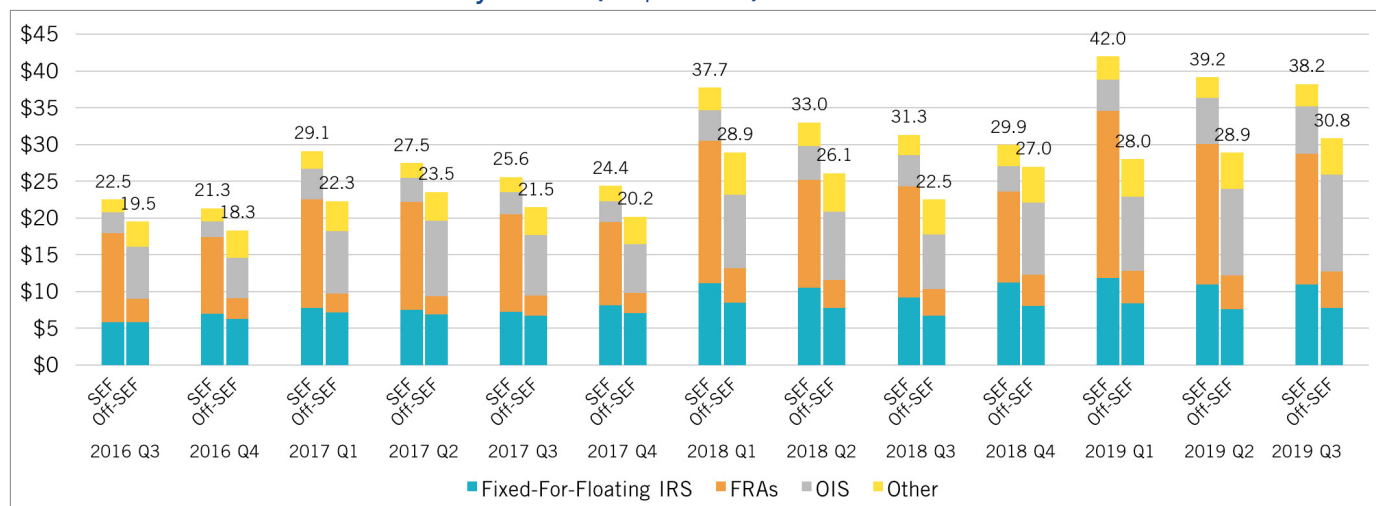


Source: DTCC and Bloomberg SDRs

In the third quarter of 2019, \$10.9 trillion (58.4%) of fixed-for-floating IRS was traded on SEFs and \$7.8 trillion was executed off-SEF. \$17.8 trillion (78.4%) of FRAs was executed on SEFs and \$4.9 trillion was traded off-SEF. \$6.5 trillion (32.9%) of OIS was executed on SEFs and \$13.2 trillion occurred off-SEF.

In the nine months to September 30, 2019, \$33.7 trillion (58.7%) of fixed-for-floating IRS was traded on SEFs and \$23.8 trillion was executed off-SEF. \$59.6 trillion (81.1%) of FRAs was executed on SEFs and \$13.9 trillion was traded off-SEF. \$17.0 trillion (32.7%) of OIS was executed on SEFs and \$35.1 trillion occurred off-SEF.

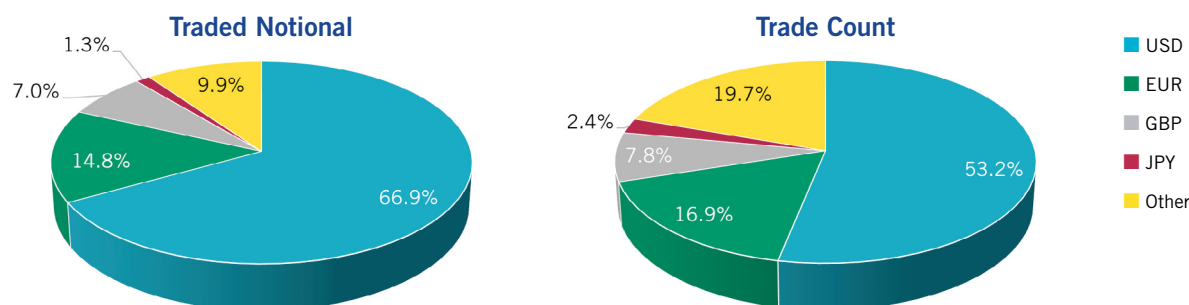
SEF and Off-SEF IRD Traded Notional by Product (US\$ trillions)



Source: DTCC and Bloomberg SDRs

IRD Statistics: Currency

IRD contracts denominated in US dollars were the most actively traded IRD instruments. US dollar-denominated IRD comprised 66.9% of traded notional and 53.2% of trade count in the third quarter of 2019. Euro-denominated transactions accounted for 14.8% of traded notional and 16.9% of trade count.

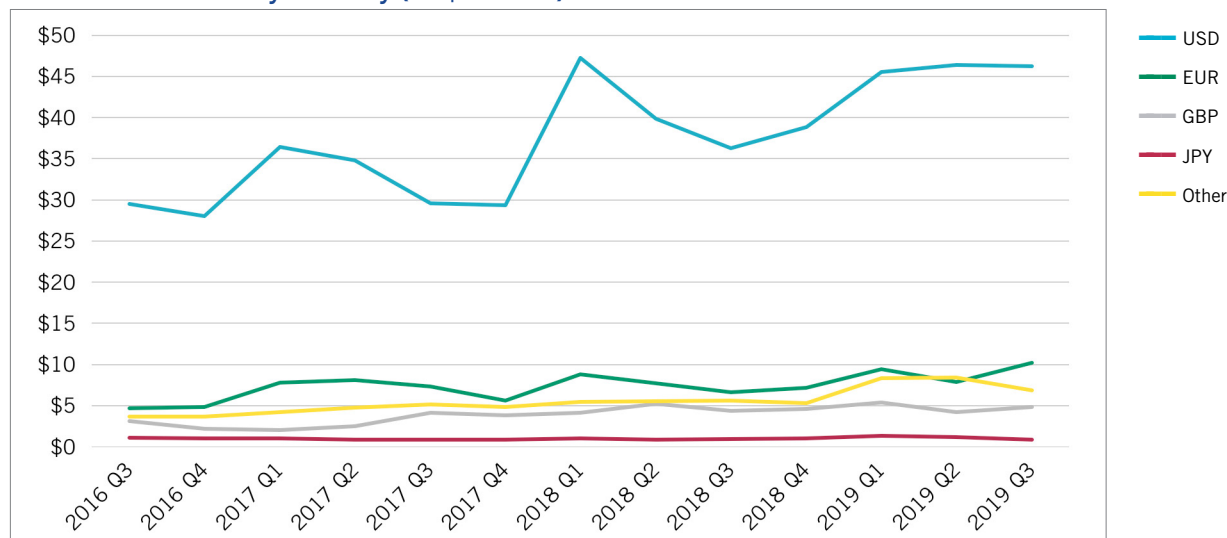


Source: DTCC and Bloomberg SDRs

US dollar-, euro- and sterling-denominated IRD traded notional increased by 27.4%, 54.2% and 10.5%, respectively, while yen-denominated IRD traded notional declined by 8.0% in the third quarter of 2019 compared with the third quarter of 2018. US dollar-denominated traded notional totaled \$46.2 trillion in the third quarter of 2019 compared with \$36.3 trillion in the third quarter of 2018. Euro-denominated traded notional was \$10.2 trillion in the third quarter of 2019 compared with \$6.6 trillion in the third quarter of 2018. Traded notional for sterling- and yen-denominated trades totaled \$4.9 trillion and \$0.9 trillion, respectively, in the third quarter of 2019. Trade count increased by 32.7%, 65.0% and 46.0% for US dollar-, euro- and sterling-denominated trades, respectively, while it decreased by 7.8% for yen-denominated trades.

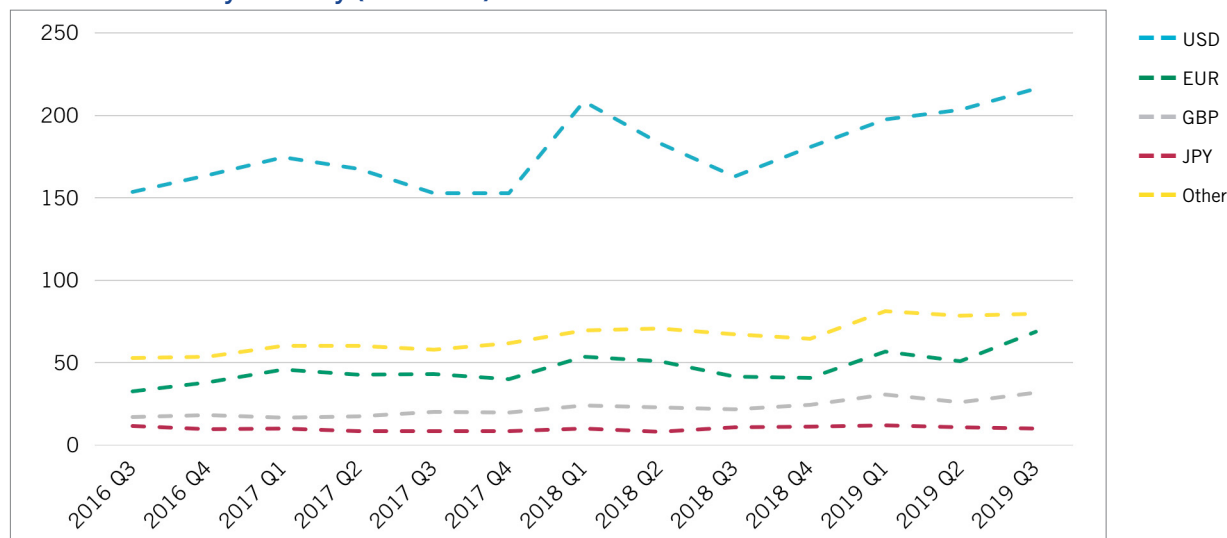
US dollar-denominated IRD traded notional increased by 12.0% from \$123.4 trillion in the nine months to September 30, 2018 to \$138.1 trillion in the nine months to September 30, 2019. Euro-denominated traded notional increased by 18.7% to \$27.5 trillion from \$23.2 trillion. Sterling-denominated traded notional increased by 5.2% to \$14.4 trillion, and yen-denominated traded notional grew by 19.9% to \$3.4 trillion over the same period. Trade count increased by 11.3% for US dollar-denominated trades, 20.8% for euro-denominated transactions, 28.6% for sterling-denominated trades and 14.1% for yen-denominated trades in the nine months to September 30, 2019 versus the nine months to September 30, 2018.

IRD Traded Notional by Currency (US\$ trillions)



Source: DTCC and Bloomberg SDRs

IRD Trade Count by Currency (thousands)



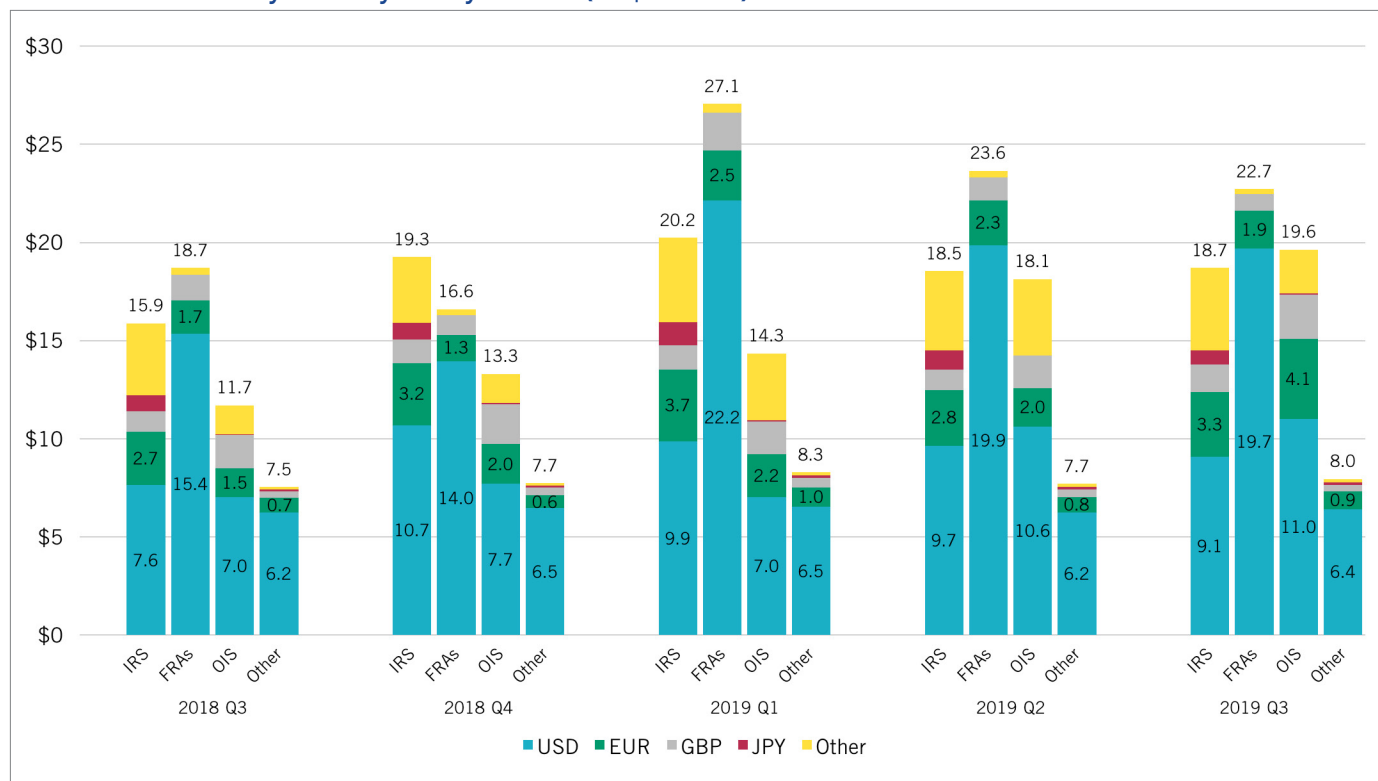
Source: DTCC and Bloomberg SDR

US dollar-denominated fixed-for-floating IRS rose by 18.7% to \$9.1 trillion in the third quarter of 2019 from \$7.6 trillion in the third quarter of 2018. Euro-denominated fixed-for-floating IRS increased by 22.6% to \$3.3 trillion from \$2.7 trillion over the same period. Sterling- and yen-denominated IRS totaled \$1.4 trillion and \$0.7 trillion in the third quarter of 2019 compared with \$1.1 trillion and \$0.8 trillion, respectively, in the third quarter of 2018.

US dollar-denominated FRAs increased by 28.2% to \$19.7 trillion in the third quarter of 2019 from \$15.4 trillion in the third quarter of 2018. Euro-denominated FRAs grew by 12.8% to \$1.9 trillion over the same period. Sterling-denominated FRAs decreased by 34.5% to \$0.9 trillion in the third quarter of 2019 from \$1.3 trillion in the third quarter of 2018.

US dollar-denominated OIS rose by 56.9% to \$11.0 trillion in the third quarter of 2019 from \$7.0 trillion in the third quarter of 2018. Euro-denominated OIS increased by 176.6% to \$4.1 trillion from \$1.5 trillion over the same period. Sterling-denominated OIS increased by 31.6% to \$2.3 trillion in the third quarter of 2019 from \$1.7 trillion in the third quarter of 2018.

IRD Traded Notional by Currency and by Product (US\$ trillions)

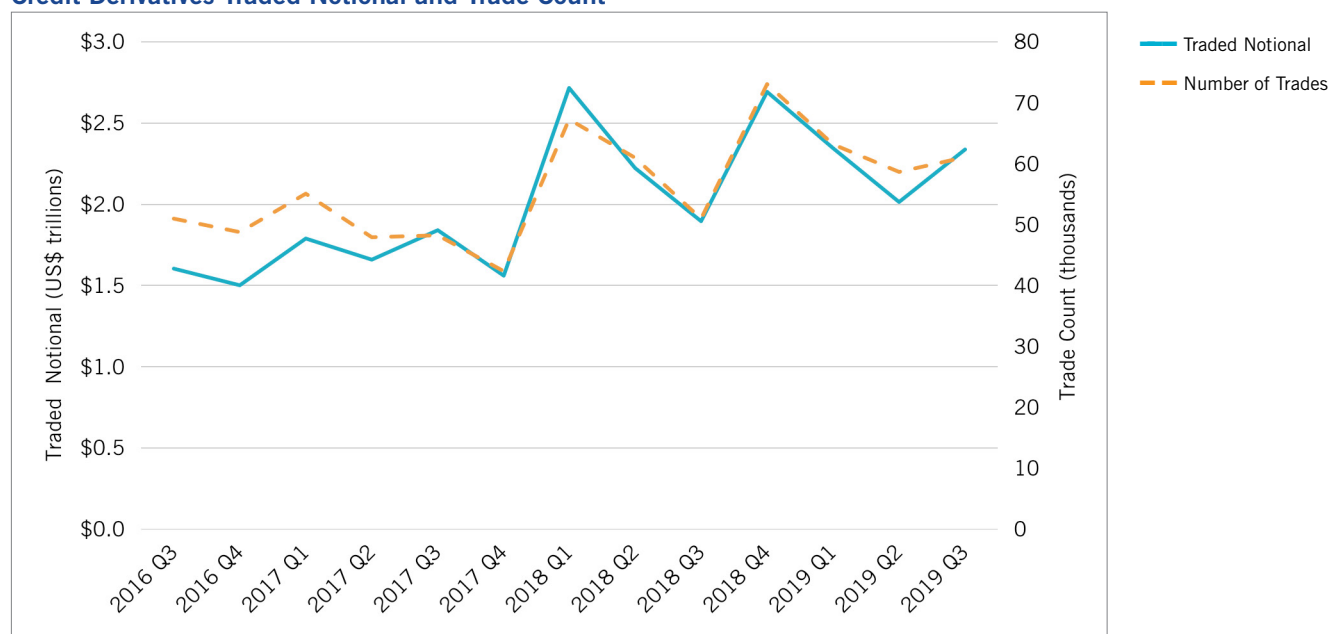


Source: DTCC and Bloomberg SDRs

CREDIT DERIVATIVES

Credit derivatives traded notional increased by 23.4% to \$2.3 trillion in the third quarter of 2019 from \$1.9 trillion in the third quarter of 2018. The number of trades rose by 20.0% to 61,103 from 50,922 over the same period.

Credit Derivatives Traded Notional and Trade Count

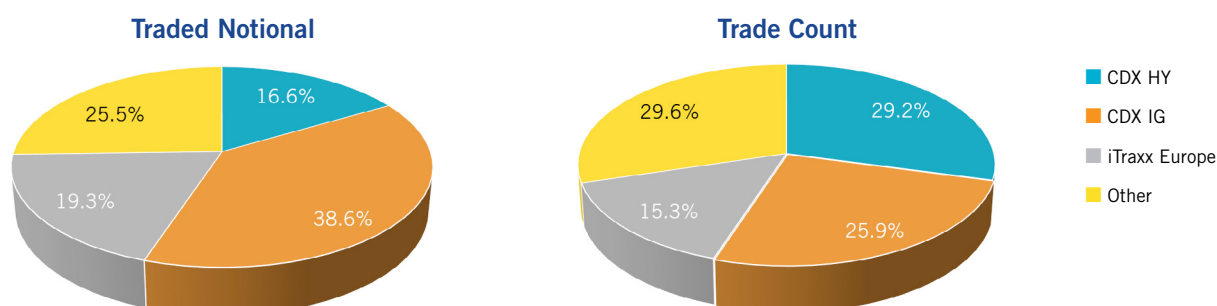


Source: DTCC and Bloomberg SDRs

Credit derivatives traded notional fell to \$6.7 trillion in the nine months to September 30, 2019, a 2.0% decrease from \$6.8 trillion in the nine months to September 30, 2018. Credit derivatives trade count grew by 2.0% to 182,831 from 179,178 over the same period.

Credit Derivatives: Product Taxonomy

In the third quarter of 2019, CDX HY and CDX IG represented 16.6% and 38.6% of total traded notional and 29.2% and 25.9% of total trade count, respectively. iTraxx Europe accounted for 19.3% of traded notional and 15.3% of trade count.

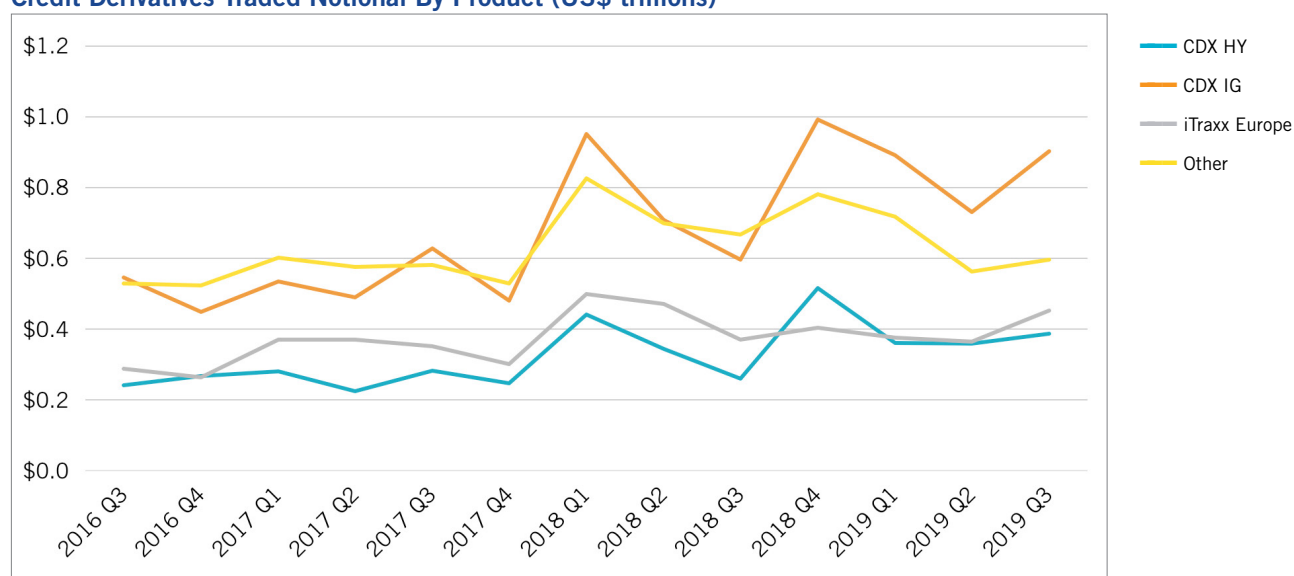


Source: DTCC and Bloomberg SDRs

In the third quarter of 2019, CDX HY traded notional increased by 48.5% and CDX IG traded notional increased by 51.6% compared with the third quarter of 2018. CDX HY grew to \$387.0 billion from \$260.6 billion and CDX IG grew to \$902.9 billion from \$595.4 billion. Trade count increased quarter-over-quarter by 50.7% for CDX HY and 49.8% for CDX IG. iTraxx Europe traded notional increased by 21.8% to \$452.2 billion in the third quarter of 2019 from \$371.2 billion in the third quarter of 2018. Trade count grew by 22.5% over the same period.

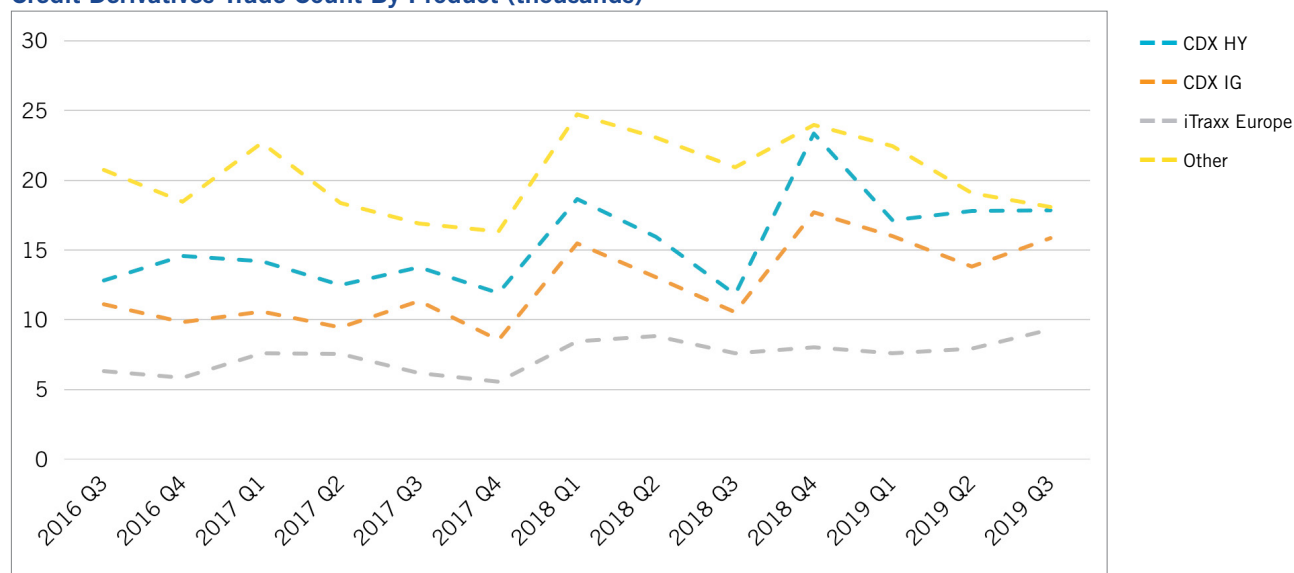
CDX HY traded notional increased by 5.6% to \$1.1 trillion in the nine months to September 30, 2019 from \$1.0 trillion in the first nine months of 2018. CDX IG traded notional grew by 12.1% over the same period to \$2.5 trillion from \$2.3 trillion. Trade count for CDX HY and CDX IG grew by 13.5% and 16.6%, respectively. iTraxx Europe traded notional decreased by 11.1% to \$1.2 trillion in the nine months to September 30, 2019 compared with \$1.3 trillion in the nine months to September 30, 2018. Trade count decreased by 0.2% over the same period.

Credit Derivatives Traded Notional By Product (US\$ trillions)



Source: DTCC and Bloomberg SDRs

Credit Derivatives Trade Count By Product (thousands)



Source: DTCC and Bloomberg SDRs

Credit Derivatives Statistics: Average Daily Traded Notional, Trade Count and Trade Size Quarterly Statistics

In the third quarter of 2019, average daily traded notional of CDX HY and CDX IG increased by 48.5% and 49.3% compared with the third quarter of 2018 and totaled \$6.0 billion and \$14.1 billion, respectively. Average daily trade count of CDX HY grew by 50.7% and totaled 279. Average daily trade count of CDX IG grew by 47.5% and totaled 247 over the same period. Average trade size of CDX HY and CDX IG was \$20.3 million and \$54.6 million, respectively.

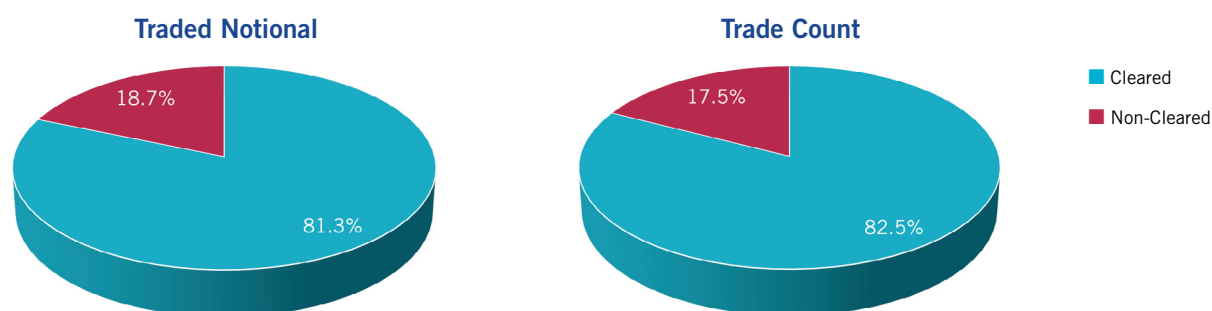
iTraxx Europe average daily traded notional increased by 20.0% to \$7.0 billion and average daily trade count grew by 20.6% to 143. iTraxx Europe average trade size declined by 0.7% to \$46.1 million in the third quarter of 2019 compared with the third quarter of 2018.

	Average Daily Traded Notional (US\$ billions)			Average Daily Trade Count			Average Trade Size (US\$ millions)		
	CDX HY	CDX IG	iTraxx Europe	CDX HY	CDX IG	iTraxx Europe	CDX HY	CDX IG	iTraxx Europe
Q3 2019	6.0	14.1	7.0	279	247	143	20.3	54.6	46.1
Q3 2018	4.1	9.5	5.8	185	168	119	21.1	53.6	46.4
Q1 2019 vs. Q1 2018	48.5%	49.3%	20.0%	50.7%	47.5%	20.6%	-3.8%	1.8%	-0.7%
Year-to-Sept. 30, 2019	5.9	13.4	6.3	281	243	131	20.1	53.9	46.4
Year-to-Sept. 30, 2018	5.6	12.0	7.1	247	209	131	21.5	55.6	52.2
Year-over-year change	5.7%	11.7%	-10.9%	13.7%	16.4%	0.2%	-6.8%	-3.1%	-11.2%

Source: DTCC and Bloomberg SDRs

Credit Derivatives Statistics: Central Clearing

During the third quarter of 2019, credit derivatives cleared transactions represented 81.3% of traded notional and 82.5% of trade count. Traded notional and trade count of cleared transactions was \$1.9 trillion and 50,397, respectively.

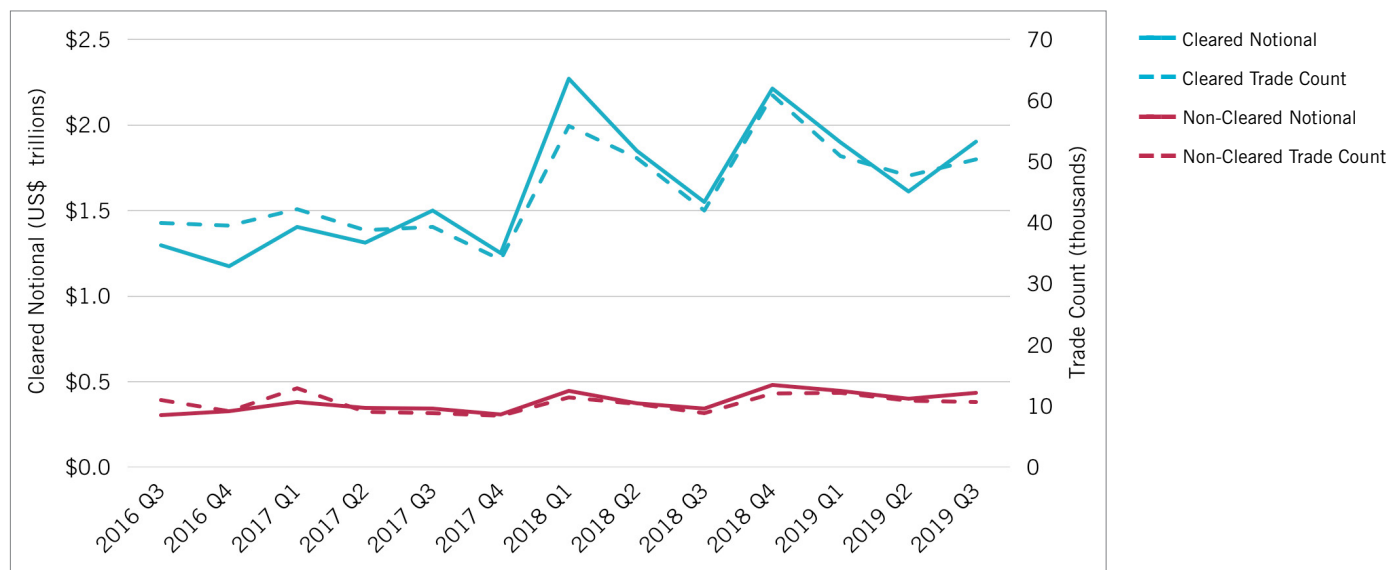


Source: DTCC and Bloomberg SDRs

Credit derivatives cleared notional increased by 22.6% to \$1.9 trillion in the third quarter of 2019 from \$1.6 trillion in the third quarter of 2018. Cleared trade count increased by 19.8% over the same period to 50,397 from 42,061. Non-cleared notional increased by 27.2% to \$436.8 billion in the third quarter of 2019 from \$343.4 billion in the third quarter of 2018. Trade count increased by 20.8% over the same period.

Credit derivatives cleared notional decreased by 4.6% to \$5.4 trillion in the nine months to September 30, 2019 from \$5.7 trillion in the nine months to September 30, 2018. Trade count rose by 0.3% to 149,014 from 148,553 over the same period. Non-cleared notional grew to \$1.3 trillion in the nine months to September 30, 2019, a 10.7% increase compared with \$1.2 trillion in the nine months to September 30, 2018. Trade count rose by 10.4% to 33,817 from 30,625 over the same period.

Credit Derivatives Cleared Notional and Trade Count

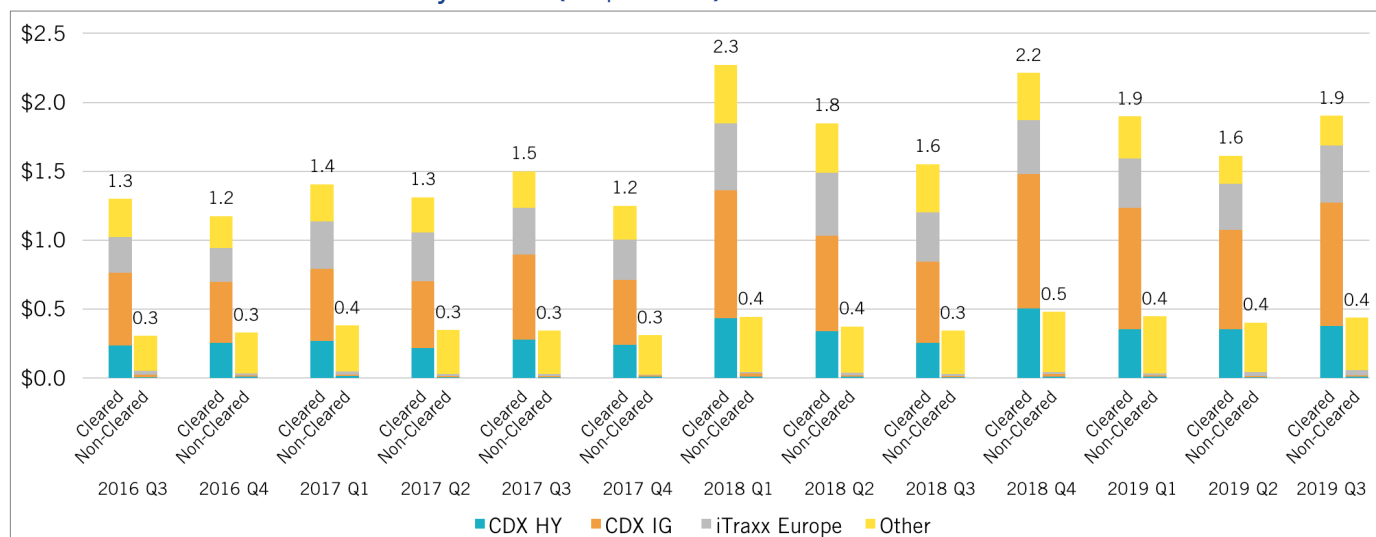


Source: DTCC and Bloomberg SDRs

In the third quarter of 2019, \$376.9 billion (97.4%) of CDX HY and \$894.0 billion (99.0%) of CDX IG was cleared and \$10.1 billion and \$8.9 billion, respectively, was non-cleared. Cleared notional of iTraxx Europe totaled \$414.0 billion (91.5%), while non-cleared notional was \$38.2 billion. \$216.7 billion (36.3%) of other credit derivatives traded notional was cleared and \$379.5 billion was non-cleared.

In the nine months to September 30, 2019, \$1.1 trillion (97.7%) of CDX HY traded notional and \$2.5 trillion (98.9%) of CDX IG traded notional was cleared and \$25.4 billion and \$28.2 billion, respectively, was non-cleared. Cleared notional of iTraxx Europe was \$1.1 trillion (93.3%). \$723.4 billion (38.6%) of other credit derivatives traded notional was cleared and \$1.2 trillion was non-cleared.

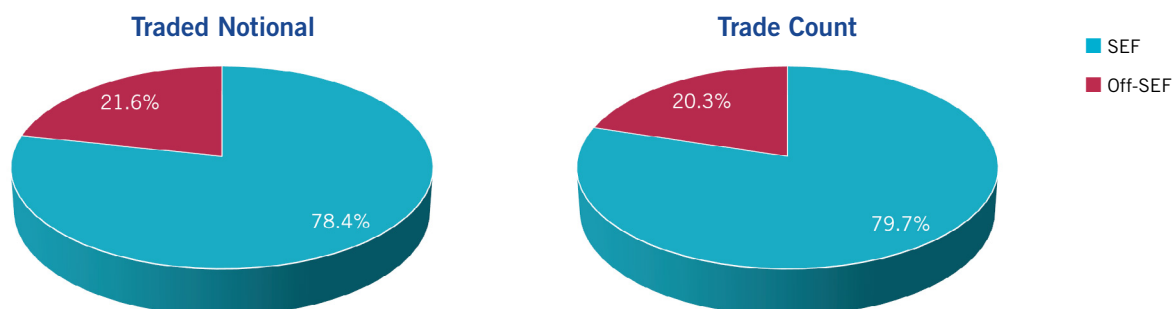
Credit Derivatives Cleared Notional by Product (US\$ trillions)



Source: DTCC and Bloomberg SDRs

Credit Derivatives Statistics: Trading Venue

In the third quarter of 2019, SEF-traded credit derivatives represented 78.4% of traded notional and 79.7% of trade count. Total credit derivatives traded notional executed on SEFs was \$1.8 trillion, while \$0.5 trillion was executed off-SEF. 48,724 transactions were executed on SEFs and 12,379 transactions were executed off-SEF.

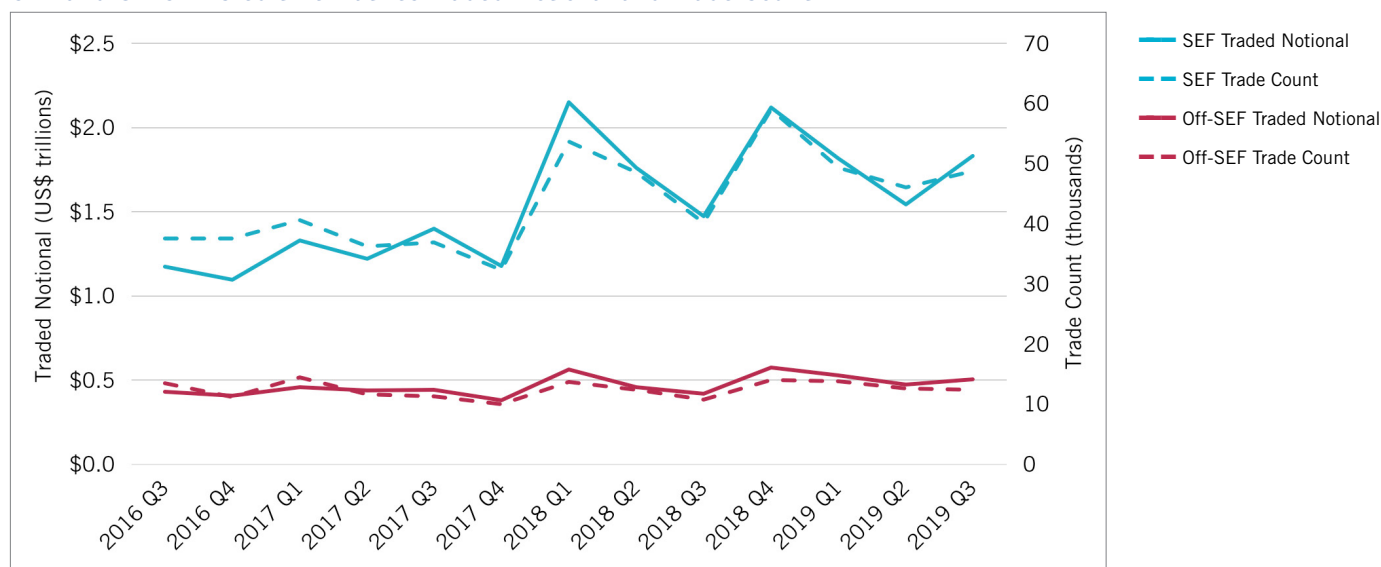


Source: DTCC and Bloomberg SDRs

Traded notional executed on SEFs increased by 24.3% to \$1.8 trillion in the third quarter of 2019 from \$1.5 trillion in the third quarter of 2018. The number of trades executed on SEFs increased by 21.2% over the same period. Traded notional executed off-SEF increased by 20.4% to \$506.0 billion in the third quarter of 2019 from \$420.2 billion in the third quarter of 2018. The number of transactions increased by 15.3% over the same period.

Traded notional executed on SEFs fell to \$5.2 trillion in the nine months to September 30, 2019, a 3.7% decrease compared with \$5.4 trillion in the nine months to September 30, 2018. Trade count grew by 1.2% over the same period, to 144,102 from 142,403. Traded notional executed off-SEF rose by 4.5% to \$1.5 trillion in the nine months to September 30, 2019, and the number of transactions increased by 5.3%.

SEF and Off-SEF Credit Derivatives Traded Notional and Trade Count

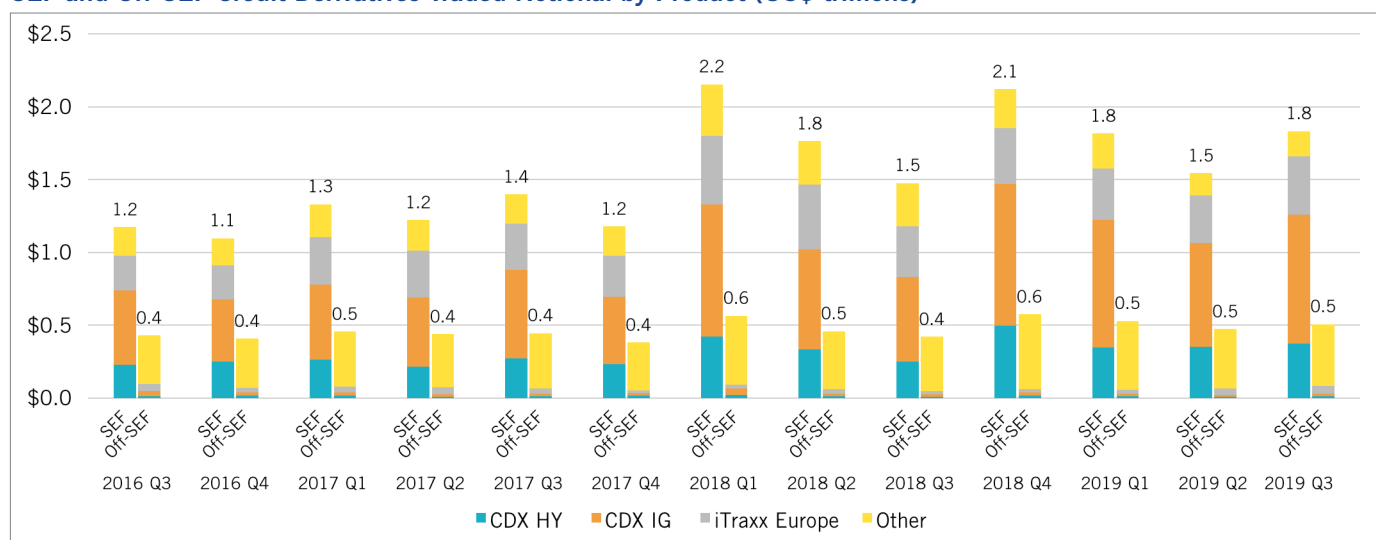


Source: DTCC and Bloomberg SDRs

In the third quarter of 2019, \$375.2 billion (96.9%) of CDX HY and \$884.6 billion (98.0%) of CDX IG notional was traded on SEFs, and only \$11.8 billion and \$18.3 billion, respectively, was executed off-SEF. \$399.6 billion (88.4%) of iTraxx Europe traded notional was executed on SEFs and \$52.7 billion occurred off-SEF. \$173.0 billion (29.0%) of other credit derivatives traded notional was executed on SEFs and \$432.2 billion was traded off-SEF.

In the nine months to September 30, 2019, \$1.1 trillion (97.0%) of CDX HY, \$2.5 trillion (98.0%) of CDX IG and \$1.1 trillion (90.0%) of iTraxx Europe notional was traded on SEFs. \$569.2 billion (30.3%) of other credit derivatives traded notional was executed on SEFs and \$1.3 trillion was traded off-SEF.

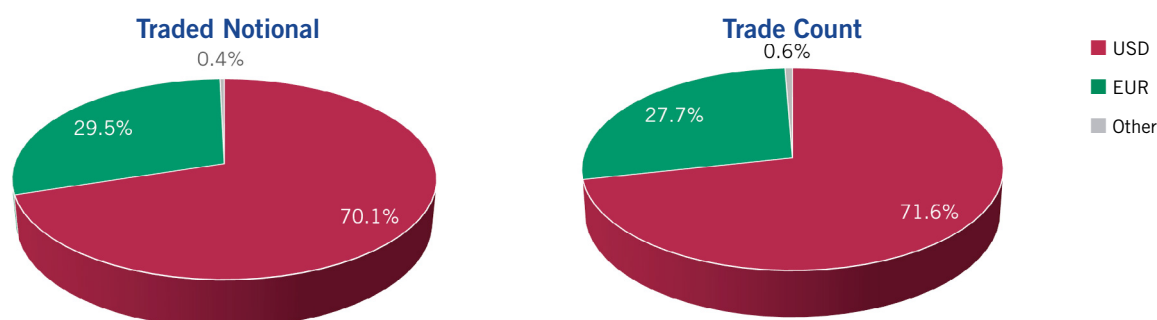
SEF and Off-SEF Credit Derivatives Traded Notional by Product (US\$ trillions)



Source: DTCC and Bloomberg SDRs

Credit Derivatives Statistics: Currency

In the third quarter of 2019, credit derivatives contracts denominated in US dollars represented 70.1% of total traded notional and 71.6% of trade count. Euro-denominated transactions accounted for 29.5% and 27.7% of traded notional and trade count, respectively.



Source: DTCC and Bloomberg SDRs

US dollar-denominated traded notional increased by 41.9% in the third quarter of 2019 compared with the third quarter of 2018, while euro-denominated traded notional decreased by 5.9%. US dollar-denominated traded notional totaled \$1.6 trillion in the third quarter of 2019. Euro-denominated traded notional was \$689.9 billion in the third quarter of 2019 versus \$733.4 billion in the third quarter of 2018. Trade count grew by 34.9% for US dollar-denominated trades and fell by 7.1% for euro-denominated trades over the same period.

US dollar-denominated traded notional rose by 9.0% to \$4.7 trillion in the nine months to September 30, 2019 from \$4.3 trillion in the nine months to September 30, 2018. Euro-denominated traded notional decreased by 21.6% over the same period, to \$2.0 trillion from \$2.5 trillion. Trade count grew by 10.5% for US dollar-denominated trades, while euro-denominated transactions declined by 15.9% in the nine months to September 30, 2019 versus the first nine months of 2018. For other currencies, traded notional and trade count grew by 83.4% and 77.4%, respectively, over the same period.

Credit Derivatives Traded Notional and Trade Count by Currency



Source: DTCC and Bloomberg SDRs



ISDA has published other recent research papers:

- ***Global Interest Rate Derivatives Markets: Insights into the 2019 BIS Triennial Central Bank Survey, October 2019***

<https://www.isda.org/a/uUaTE/BIS-Report-OCT-2019.pdf>

- ***Global Credit Defaults Swaps Market Study, September 2019***

<https://www.isda.org/a/JUPTE/Global-CDS-Market-Study.pdf>

- ***Interest Rate Benchmarks Review: Third Quarter of 2019 and Year-to-September 30, 2019, October 2019***

<https://www.isda.org/a/OmaTE/Interest-Rate-Benchmarks-Review-Q3-2019.pdf>

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