Ovation Platform – DDS Collateral Output Guide

THE FOUNDATION FOR SECURE MARKETS®

Ovation Platform – DDS Collateral Output Guide

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Contents

Overview

About This Document

This *OCC Ovation Platform – DDS Collateral Output Guide* includes information about collateral and account summary data that OCC sends to clearing members. This document includes FIXML message layout tables for the system output.

DDS Collateral Output

The OCC Data Distribution Services (DDS) system transmits proprietary collateral and account summary messages using the FIXML (Financial Information eXchange Markup Language) data formatting standard. Refer to the *Ovation Platform – DDS Output Overview Guide* for more information about the DDS system including product multipliers and CFI codes. The guide is available on the Theocc.com website.

If you have questions or comments, please contact your Member Services representative or the OCC Help Desk at one of the following:

- 800-621-6072 or 800-544-6091 (U.S.)
- 800-424-7320 (Canada)
- memberservices@theocc.com

What's New With the Ovation Platform?

The following table lists changes for Ovation Platform DDS collateral and account summary data output compared to the ENCORE system DDS output.

DDS Output Changes

Message	Change	Description
Output messages	Order of tags within a message	The ordering of tags within a message may be different in the Ovation platform. Firms should use a standard XML parser and not expect a file to be parsed with a specific order
	Timestamp offset	For messages with a timestamp: In the Ovation platform, execution times and transaction times display in Coordinated Universal Time (UTC) with no offset. In the ENCORE system, post trade and collateral messages have an offset of 5 hours.
	Truncation	Although many attributes will be truncated to 100, OCC cannot guarantee a maximum length on FIXML attributes. Receiving systems must perform their own truncation if OCC publishes tags with a greater length than desired.
Account Summary	Some Pay/Collect codes no longer used	The following Pay/Collect types (Tag 1708) are no longer supported with Ovation: ▪ 7 – Equity intraday trade premium ▪ 8 – Index intraday trade premium ▪ 17 – Position pledge ▪ 18 – Escrow premium ▪ 23 – Intraday premium ▪ 26 – Range options ▪ 28 – USD trade premium fail ▪ 29 – Trade premium fail ▪ 36 – OTC deal premium ▪ 37 – OTC post deal premium

Messages

This guide provides FIXML message layouts for the following messages:

- Account Summary
- Collateral Response
- Collateral Report
- Collateral Response for Margin Requirements Haircuts

Layout Formatting

Layout tables in this document use arrows to indicate component block levels.

Message Layout Legend – Component Block Level Examples	
➔ Pty	One arrow precedes a component block that is one level down.
➔ ➔ Sub	Two arrows precede a component block that is two levels down.

Account Summary

FIX Message	Account Summary Report
Subscription Options	Clearing Members only
Delivery Options	Batch File

Overview

The Account Summary message provides margin, collateral, and settlement details for all accounts. The Account Summary message is produced for every settlement-enabled account and is created each time the Account Summary by CMO Core Report is generated.

Account Summary Report

Account Summary Report					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
AcctSumRpt					
	BizDt	Clearing business date (*YYYY-MM-DD*)	715	LocalMktDate	2022-05-18
	RptID	Unique identifier for the Account Summary Report	1699	String	987654321
	TotNetValu	Total collateral value	900	Amount	5660300
	MgnExcess	Excess/deficit (deficit if value is negative)	899	Amount	1462781
➔ SettlAmt					
	Amt	Net settlement (pay if value is negative)	1701	Amount	-486126
	Ccy	Settlement currency	1702	Currency	USD
➔ MgnAmt	The Margin Amount data component block is generated for each amount type.				
	Typ	Margin amount type: ▪ 14 – Deficit (prior to cash conversion) ▪ 18 – Reserve (Clearing Fund requirement) ▪ 22 – Total margin requirement (debit if negative, credit if positive) ▪ 25 – Rolled-up margin deficit ▪ 101 – Total margin requirement from Margin Memo Collateral Report ▪ 102 – Total margin requirement from Margin Memo Collateral & Stock Loan Report ▪ 103 – Minimum cash requirement	1644	Integer	22
	Amt	Amount	1645	Amount	-4197519
➔ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ▪ 21 – Clearing organization	452	Integer	21
➔ Pty					
	ID	Clearing member number	448	String	00017

Account Summary Report					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
	R	Party role: ▪ 4 – Clearing firm	452	Integer	4
➔ ➔ Sub					
	ID	Account type: ▪ C – Customer ▪ F – Firm ▪ M – Market maker ▪ Z – Clearing fund	523	String	M
	Typ	Sub type: ▪ 26 – Account type	803	Integer	26
➔ Pty					
	ID	Sub account: ▪ N – Non-proprietary ▪ P – Proprietary ▪ X – Clearing fund (Used with Account type M or Z)	448	String	N
	R	Party role: ▪ 38 – Position account	452	Integer	38
➔ CollAmt	The Collateral Amount Group repeats for each collateral type, even if value is zero.				
	Typ	Type of collateral: ▪ CASH – Cash ▪ VSEC – Valued securities (CVH) ▪ GOVT – Government (GS & GE) ▪ LOC – Letters of credit	1706	String	LOC
	Amt	Current collateral value. This is the currency value attributed to the collateral.	1704	Amount	5660300
➔ PayCol	The Pay Collect component group repeats for each non-zero pay collect. Either a Pay Amount or a Collect Amount is included.				
	Typ	Pay/collect type	1708	String	1
	PayAmt	Pay amount	1710	Amount	3413
	ColAmt	Collect amount	1711	Amount	4330

Pay/Collect Codes

Value	Pay/Collect Type
1	Net pay/collect
2	Miscellaneous
3	Index trade premium
4	Equity trade premium
5	Index post trade premium
6	Equity post trade premium
9	Index cash difference
10	Equity cash difference
11	Index cash fixed
12	Equity cash fixed
13	Cross margin variation
14	Cross margin intraday offset
15	Cross margin option premium
16	Stock loan mark to market
19	Index futures mark to market
20	Equity futures mark to market
21	Trade premium
22	Post trade premium
24	Cash difference
25	Cash fixed

Implementation Considerations

For Clearing Fund, the sub-account field is populated with an X as shown below.

```
<Pty ID="00017" R="4">
        <Sub ID="Z" R="26"/>
</Pty>
<Pty ID=”X” R="38"/>
```

Collateral Response

FIX Message	Collateral Response
Subscription Options	Clearing Members only
Delivery Options	Batch File Real Time

Overview

A Collateral Response message is generated for each deposit/pledge or withdrawal/release that is accepted during the day. Pending collateral transactions do not generate messages. Collateral Response messages are available in real time or as a batch.

The Collateral Response message supports the following collateral types:

- Cash
- Escrow deposits
- Government securities
- Government sponsored enterprises (GSE)
- Letters of credit
- Specific deposits
- Valued securities

Collateral Response

Collateral Response					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
CollRsp					
	RespID	Unique identifier for the Collateral Response report	904	String	200007957
	ID	Transaction ID of the collateral transaction (populated for escrow deposits only)	902	String	16787071
	RespTyp	Collateral assignment response type: ▪ 1 – Accepted	905	Integer	1
	TxnTm	Message creation date and time	60	UTC Timestamp	2022-05-17T07:48:13
	ApplTyp	Identifies whether collateral is used to offset a margin position: ▪ 0 – Margin offset collateral (such as specific deposits and escrow deposits) ▪ 1 – Valued collateral (such as valued securities and government securities)	1043	Integer	1
	Qty	The number of contracts covered by a collateral pledge (Used for escrow deposits only)	53	Quantity	25
	QtyTyp	Type of quantity: ▪ 1 – Contracts (Used for escrow deposits only)	854	Integer	1
	Acct	Account number	1	String	123456
	ClOrdID	Order/branch sequence number	11	String	ABCDEF
	BizDt	Clearing business date (*YYYY-MM-DD*)	715	LocalMktDate	2022-05-18
	FinclStat	Financial status: ▪ 3 – Restricted	291	Integer	3
	TotNetValu	Collateral value or MRAV, depending on the collateral type and security	900	Amount	959435.6
	Ccy	Currency	15	Currency	USD
➔ Pty					
	ID	Clearing group name	448	String	OCC

Collateral Response					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
	R	Party role: ▪ 21 – Clearing organization	452	Integer	21
➔ Pty					
	ID	Clearing member number	448	String	00123
	R	Party role: ▪ 4 – Clearing firm	452	Integer	4
➔ ➔ Sub					
	ID	Account type: ▪ C – Customer ▪ F – Firm ▪ M – Market maker ▪ Z – Clearing fund	523	String	C
	Typ	Sub type: ▪ 26 – Position account type	803	Integer	26
➔ Pty					
	ID	Sub account: ▪ P – Proprietary ▪ N – Non-proprietary ▪ X – Clearing fund (Used with Account type M or Z)	448	String	P
	R	Party role: ▪ 38 – Position account	452	Integer	38
➔ Pty					
	ID	Bank holding the collateral for escrow deposits	448	String	SBOSUS33XXX
	R	Party role: ▪ 28 – Escrow bank	452	Integer	28
➔ Pty					
	ID	Asset manager/bank holding the collateral. SWIFT Bank Identifier Code (BIC) or OCC-assigned acronym if the asset manager does not have a SWIFT BIC.	448	String	DTCCUS33XXX
	R	Party role: ▪ 49 – Asset manager	452	Integer	49

Collateral Response					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
➔ Pty	The message includes the instrument block if it is DTCC pledged collateral.				
	ID	Participant's account at asset manager	448	String	0123
	R	Party role: ▪ 50 – Pledgor account	452	Integer	50
➔ Pty	The message includes the instrument block if it is DTCC pledged collateral.				
	ID	OCC's account at asset manager	448	String	0981
	R	Party role: ▪ 51 – Pledgee account	452	Integer	51
➔ Instrmt	The message includes the instrument block only if the Collateral Type is "SD" or "ED". If collateral was done on a "Valued Basis" (not specifically assigned to an option position) then the instrument block is not included.				
	Sym	Symbol	55	String	GGD
	CFI	CFI code	461	String	OCASPS
	MMY	Series/contract year, month, date (*YYYYMMDD*)	200	MonthYear	20220518)
	MatDt	Expiration date (*YYYY-MM-DD*)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (decimal format)	202	Price	280
	StrkCcy	Strike currency	947	Currency	USD
	StrkMult	Strike multiplier	967	Float	1
	StrkValu	Strike value	968	Float	100
➔ UndColl					
	Actn	Action: ▪ 1 – Add (deposit/pledge) ▪ 2 – Remove (withdrawal/release)	944	Integer	1
➔ ➔ Undly	The Undly block is populated for escrow deposits and describes the supporting collateral for the transaction..				
	Sym	Underlying symbol or security symbol. For Cash Collateral, the Sym is USD.	311	String	IBOC
	ID	Underlying reference ID	309	String	459044103
	Src	Security ID source: ▪ 1 – CUSIP ▪ L – Letter of credit number	305	String	1

Collateral Response					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
	Prod	Underlying product: ▪ 1 – Agency ▪ 4 – Currency ▪ 5 – Equity ▪ 6 – Government ▪ 8 – Loan	462	Integer	5
	CFI	CFI code	463	String	EXXXXX
	Typ	Underlying security type: ▪ CAB – CAD Treasury bond ▪ CAN – CAD Treasury note ▪ CAS – CAS Treasury strip ▪ CASH – Cash ▪ CAT – CAD Treasury TIPS ▪ CATS – CAD Treasury TIP strip ▪ CS – Common stock ▪ CTB – CAD Treasury bill ▪ ETF – Exchange traded fund ▪ FAB – Federal agency bond ▪ FAN – Federal agency note ▪ FAS – Federal agency strip ▪ FAT – Federal agency TIPS ▪ FATB – Federal agency bill ▪ FATS – Federal agency TIP strip ▪ LOAN – Letter of credit ▪ PS – Preferred stock ▪ TBILL – U.S. Treasury bill ▪ TBOND – U.S. Treasury bond ▪ TNOTE – U.S. Treasury note ▪ TSTRP – U.S. Treasury strip ▪ TTPS – U.S. Treasury TIPS ▪ TTPST – U.S. Treasury TIP strip	310	String	CS
	MatDt	Underlying maturity date (*YYYY-MM-DD*)	542	LocalMktDate	2023-05-19
	CpnRt	Underlying coupon rate	435	Percentage	6.75

Collateral Response					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
	Issr	Underlying issuer	306	String	INTERNATIONAL BANCSHARES COR
	Ccy	Underlying currency	318	Currency	USD
	Qty	Underlying quantity	879	Quantity	1000
	Px	Underlying price of the security	810	Price	28.8
	FxRate	Foreign exchange rate used to compute current value (market value)	1045	Price	1.0000
	FxRateCalc	Indicates that the FxRate is multiplied to derive current value: ▪ M – Multiply	1046	String	M
	CurVal	Underlying current value (market value)	885	Amount	28800.00
➔ ➔ ➔ Stip	The below Stip block is populated for escrow deposits only and reports the collateral value of a supporting collateral transaction.				
	Typ	Type: ▪ CollVal – Collateral value	888	String	CollVal
	Val	Collateral value	889	Amount	28800.00
➔ Stip	The below Hold Indicator block is populated for Specific Deposits and Escrow Deposits only.				
	Typ	Type: ▪ Hold – Hold indicator	233	String	Hold
	Val	Hold indicator: ▪ N – No ▪ Y – Yes	234	String	Y
➔ Stip	The following Stip blocks are populated for escrow deposits only and provide values at the escrow deposit contract level.				
	Typ	Type: ▪ BankQty – Bank quantity	233	String	BankQty
	Val	Bank quantity	234	Quantity	1000
➔ Stip					
	Typ	Type: ▪ CalcQty – Calculated contract quantity	233	String	CalcQty
	Val	Calculated contract quantity	234	Quantity	1000

Collateral Response					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
➔ Stip					
	Typ	Type: ▪ ThrsQty – Threshold contract quantity	233	String	ThrsQty
	Val	Threshold contract quantity	234	Quantity	1
➔ Stip					
	Typ	Type: ▪ MktVal – Market value	233	String	MktVal
	Val	Market value	234	Amount	28800.00
➔ Stip					
	Typ	Type: ▪ CollVal – Collateral value	233	String	CollVal
	Val	Collateral value	234	Amount	28800.00
➔ Stip					
	Typ	Type: ▪ ReqCollVal – Required collateral value	233	String	ReqCollVal
	Val	Required collateral value	234	Amount	28800.00

Implementation Considerations

Collateral Types

The ApplTyp tag is used to indicate how collateral is applied. Securities are pledged on either a margin offset or valued basis (0 indicates margin offset collateral, 1 indicates valued collateral.

Collateral types that are accepted on a valued basis include equities, letters of credit, currency, and government and agency debt. Collateral deposits made on a valued basis are given a collateral value based upon their market value and any applied haircuts. This collateral value offsets the overall margin requirement for the account where the collateral is deposited. Equities pledged as specific deposits and escrow deposits may be assigned specifically to certain option positions on a margin offset basis. When this is done, the covered positions are removed from the risk margin calculation of a given portfolio.

DDS Collateral Messages and Collateral Types

The following table illustrates how DDS collateral messages represent collateral types.

DDS Collateral Messages and Collateral Types					
Collateral Type	**Collateral Application Type**	**Product**	**Security Type**	**Quantity Type**	**Details**
Valued Security (VS)	1 – Valued	Equity	▪ CS – Common stock ▪ PS – Preferred stock	N/A	N/A
Government security (GS)	1 – Valued	Government	▪ CAB – CAD Treasury bond ▪ CAN – CAD Treasury note ▪ CAS – CAS Treasury strip ▪ CAT – CAD Treasury TIPS ▪ CATS – CAD Treasury TIP strip ▪ CTB – CAD Treasury bill ▪ TBILL – US Treasury bill ▪ TBOND – US Treasury bond ▪ TNOTE – US Treasury note ▪ TSTRP – US Treasury strip ▪ TTIPS – US Treasury TIPS	N/A	N/A

DDS Collateral Messages and Collateral Types					
Collateral Type	**Collateral Application Type**	**Product**	**Security Type**	**Quantity Type**	**Details**
			▪ TTPST – US Treasury TIP strip		
Government sponsored enterprise (GE)	1 – Valued	Agency	▪ FAB – Federal agency bond ▪ FAN – Federal agency note ▪ FAS – Federal agency strip ▪ FAT – Federal agency TIPS ▪ FATB – Federal agency bill ▪ FATS – Federal agency TIP strip	N/A	N/A
Cash (CS)	1 – Valued	Currency	CASH – Cash	N/A	N/A
Letter of credit (LC)	1 – Valued	Loan	LOAN – Letter of credit	N/A	N/A
Specific deposit (SD)	0 – Margin offset	Equity	CS – Common stock	N/A	N/A
Escrow deposit (ED) with supporting collateral of equity type	0 – Margin Offset	Equity (Prod – 5)	CS – Common stock	QtyTyp – 1	When the Party Role = 28, the corresponding ID identifies the bank holding the collateral for the escrow.
Escrow deposit (ED) with supporting collateral of debt type	0 – Margin Offset	Government (Prod – 6)	▪ TBILL – US Treasury bill ▪ TBOND – US Treasury bond ▪ TNOTE – US Treasury note ▪ TSTRP – US Treasury strip ▪ TTIPS – US Treasury TIPS	QtyTyp – 1	When the Party Role = 28, the corresponding ID identifies the bank holding the collateral for the escrow.
Escrow deposit (ED) with supporting collateral of cash type	0 – Margin Offset	Currency (Prod – 4)	CASH – Cash	QtyTyp – 1	When the Party Role = 28, the corresponding ID identifies the bank holding the collateral for the escrow.

Instrument and Underlying Instrument Blocks

When reporting specific deposit transactions, the covered position is located in the Instrument block and the underlying collateral deposit is in the Underlying Instrument block.

When reporting escrow deposits, the covered position is located in the Instrument block. The collateral underlying the position is pledged to OCC at the escrow bank's pledge account at DTCC. Therefore, the Underlying Instrument block is included in OCC collateral messages for restructured escrow deposits.

When reporting collateral transactions made on a valued basis, there is no specific overlying position to place in the Instrument block. In this case, the Instrument block is not shown, and the collateral is located in the Underlying Instrument block.

Underlying Current Value

The Underlying Current Value (UndrlyCurrentValue, Tag #885) tag indicates the market value currently attributed to this collateral.

Underlying Current Value (market value) is always displayed by OCC in USD, as indicated by the Ccy tag.

Total Net Value

The Total Net Value tag (TotNetValu, Tag # 900) is used to indicate the collateral value of the depository record.

Marginable deposits are valued based upon the offset of the overlying option's risk margin. Specific deposits do not have a collateral value.

All Valued deposits and withdrawals carry a Collateral Value in the Total Net Value tag.

Total Net Value (collateral value) is always displayed by OCC in USD, as indicated by the Ccy tag.

Holds on Specific and Escrow Deposits

The Stip Type and Value tags (Hold Indicator Typ (Tag #233) and Val (Tag #234)) indicate whether a hold is placed on a specific or escrow deposit. If a record is flagged as held, the record and its supporting collateral are not released until the flag is removed.

Collateral Report

FIX Message	Collateral Report
Subscription Options	Clearing Members only
Delivery Options	Batch File

Overview

Collateral Report messages is an end of day file and provides users with an overview of their collateral inventory at the time the message is created. This message does not contain any information regarding adds, changes, or deletions within the database.

The Collateral Report message supports the following collateral types:

- Cash
- Escrow deposits
- Government securities
- Government sponsored enterprises (GSE)
- Letters of credit
- Specific deposits
- Valued securities

Collateral Report

Collateral Report					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
CollRpt					
	RptID	Unique identifier for the Collateral Report	908	String	12377357
	ID	Collateral item ID of supporting collateral (populated for escrow deposits only)	909	String	16787071
	Stat	Collateral status 3 – Assigned (active collateral)	910	Integer	3
	ApplTyp	Identifies whether collateral is used to offset a margin position: ▪ 0 – Margin offset collateral (such as specific deposits and escrow deposits) ▪ 1 – Valued collateral (such as valued securities and government securities)	1043	Integer	0
	Qty	The number of contracts covered by a collateral pledge (used for escrow deposits only)	53	Quantity	25
	QtyTyp	Type of quantity: ▪ 1 – Contracts (used for escrow deposits only)	854	Integer	1
	BizDt	Clearing business date (*YYYY-MM-DD*)	715	LocalMktDate	2022-05-18
	Acct	Account number	1	String	123456
	ClOrdID	Order/branch sequence number	11	String	ABCDEF
	FinclStat	Financial status: ▪ 3 – Restricted	291	Integer	3
	Ccy	Currency of total net value	15	Currency	USD
	TotNetValu	Collateral value. (VS and SD do not have a value. Collateral value of ED contract is populated for EDs.)	900	Amount	959435.6
➔ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ▪ 21 – Clearing organization	452	Integer	21

Collateral Report					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
➔ Pty					
	ID	Clearing member number	448	String	00123
	R	Party role: ▪ 4 – Clearing firm	452	Integer	4
➔ ➔ Sub					
	ID	Account type: ▪ C – Customer ▪ F – Firm ▪ M – Market maker ▪ Z – Clearing fund	523	String	C
	Typ	Sub type: ▪ 26 – Position account type	803	Integer	26
➔ Pty					
	ID	Sub account: ▪ P – Proprietary ▪ N – Non-proprietary ▪ X – Clearing Fund	448	String	P
	R	Party role: ▪ 38 – Position account	452	Integer	38
➔ Pty					
	ID	Bank holding the collateral for escrow deposits	448	String	SBOSUS33XXX
	R	Party role: ▪ 28 – Escrow bank	452	Integer	28
➔ Pty					
	ID	Asset manager/bank holding the collateral. SWIFT Bank Identifier Code (BIC) or OCC-assigned acronym if the asset manager does not have a SWIFT BIC.	448	String	DTCCUS33XXX
	R	Party role: ▪ 49 – Asset manager	452	Integer	49
➔ Pty	The message includes the instrument block if it is DTCC pledged collateral.				
	ID	Participant's account at asset manager	448	String	0123

Collateral Report					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
	R	Party role: ▪ 50 – Pledgor account	452	Integer	50
➔ Pty	The message includes the instrument block if it is DTCC pledged collateral.				
	ID	OCC's account at asset manager	448	String	0981
	R	Party role: ▪ 51 – Pledgee account	452	Integer	51
➔ Instrmt	The message includes the instrument block only if the Collateral Type is "SD" or "ED". If collateral was done on a "Valued Basis" (not specifically assigned to an option position) then the instrument block is not included.				
	Sym	Symbol	55	String	A
	CFI	CFI code	461	String	OCASPS
	MMY	Series/contract year, month, date (*YYYYMMDD*)	200	MonthYear	20220518)
	MatDt	Expiration date (*YYYY-MM-DD*)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (decimal format)	202	Price	35.000000
	StrkCcy	Strike currency	947	Currency	USD
	StrkMult	Strike multiplier	967	Float	1.00000
	StrkValu	Strike value	968	Float	100.000000
➔ Undly	The Undly block is populated for escrow deposits also. The Undly block reports the supporting collateral transaction data.				
	Sym	Underlying symbol or security symbol	311	String	DC
	ID	Underlying reference ID	309	String	045624510
	Src	Security ID source: ▪ 1 – CUSIP ▪ L – Letter of credit number	305	String	1
	Prod	Underlying product: ▪ 1 – Agency ▪ 4 – Currency ▪ 5 – Equity ▪ 6 – Government ▪ 8 – Loan	462	Integer	5
	CFI	CFI code	463	String	EXXXXX

Collateral Report					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
	Typ	Underlying security type: ▪ CAB – CAD Treasury bond ▪ CAN – CAD Treasury note ▪ CAS – CAS Treasury strip ▪ CASH – Cash ▪ CAT – CAD Treasury TIPS ▪ CATS – CAD Treasury TIP strip ▪ CS – Common stock ▪ CTB – CAD Treasury bill ▪ ETF – Exchange traded fund ▪ FAB – Federal agency bond ▪ FAN – Federal agency note ▪ FAS – Federal agency strip ▪ FAT – Federal agency TIPS ▪ FATB – Federal agency bill ▪ FATS – Federal agency TIP strip ▪ LOAN – Letter of credit ▪ PS – Preferred stock ▪ TBILL – U.S. Treasury bill ▪ TBOND – U.S. Treasury bond ▪ TNOTE – U.S. Treasury note ▪ TSTRP – U.S. Treasury strip ▪ TTPS – U.S. Treasury TIPS ▪ TTPST – U.S. Treasury TIP strip	310	String	CS
	MatDt	Underlying maturity date (*YYYY-MM-DD*)	542	LocalMktDate	2023-05-19
	CpnRt	Underlying coupon rate	435	Percentage	6.75
	Issr	Underlying issuer	306	String	AGILENT TECHNOLOGIES INC
	CCY	Underlying currency	318	Currency	USD
	Qty	Underlying quantity	879	Quantity	11600

Collateral Report					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
	AdjQty	Quantity adjusted for corporate actions which have been applied to options but are awaiting DTCC allocation to pledged collateral. (The AdjQty is included only when it differs from the underlying quantity.)	1044	Quantity	200
	Px	Underlying price	810	Price	36.590000
	FxRate	Foreign exchange rate used to compute current value (market value)	1045	Price	1.000000
	FxRateCalc	Indicates that the FxRate is multiplied to derive current value: ▪ M – Multiply	1046	Integer	M
	CurVal	Underlying current value (market value)	885	Amount	424444.00000
➔ ➔ Stip	The below Stip block (within the Undly block) is populated for Escrow Deposits only and reports the collateral value of a supporting collateral item.				
	Typ	Type: ▪ CollVal – Collateral value	888	String	CollVal
	Val	Collateral value	889	Amount	28800.00
➔ Stip	The below Hold Indicator block is populated for Specific Deposits and Escrow Deposits only.				
	Typ	Type: ▪ Hold – Hold indicator	233	String	Hold
	Val	Hold indicator: ▪ N – No ▪ Y – Yes	234	String	Y
➔ Stip	All of the below Stip blocks are populated for escrow deposits only and report values at the escrow deposit contract level.				
	Typ	Type: ▪ BankQty – Bank quantity	233	String	BankQty
	Val	Bank quantity	234	Quantity	1000
➔ Stip					
	Typ	Type: ▪ CalcQty – Calculated contract quantity	233	String	CalcQty
	Val	Calculated contract quantity	234	Quantity	1000

Collateral Report					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
➔ Stip					
	Typ	Type: ▪ ThrsQty – Threshold contract quantity	233	String	ThrsQty
	Val	Threshold contract quantity	234	Quantity	1
➔ Stip					
	Typ	Type: ▪ MktVal – Market value	233	String	MktVal
	Val	Market value	234	Amount	28800.00
➔ Stip					
	Typ	Type: ▪ ReqCollVal – Required collateral value	233	String	ReqCollVal
	Val	Required collateral value	234	Amount	28800.00

Implementation Considerations

Collateral Types

The ApplTyp tag is used to indicate how collateral is applied. Securities are pledged on either a margin offset or valued basis (0 indicates margin offset collateral, 1 indicates valued collateral.

Collateral types that are accepted on a valued basis include equities, letters of credit, currency, and government and agency debt. Collateral deposits made on a valued basis are given a collateral value based upon their market value and any applied haircuts. This collateral value offsets the overall margin requirement for the account where the collateral is deposited.

Equities pledged as specific deposits and escrow deposits are assigned specifically to certain option positions on a margin offset basis. When this is done, the covered positions are removed from the risk margin calculation of a given portfolio.

DDS Collateral Messages and Collateral Types

The following table illustrates how DDS collateral messages represent collateral types.

DDS Collateral Messages and Collateral Types					
Collateral Type	**Collateral Application Type**	**Product**	**Security Type**	**Quantity Type**	**Details**
Valued Security (VS)	1 – Valued	Equity	▪ CS – Common stock ▪ PS – Preferred stock	N/A	N/A

DDS Collateral Messages and Collateral Types					
Collateral Type	**Collateral Application Type**	**Product**	**Security Type**	**Quantity Type**	**Details**
Government security (GS)	1 – Valued	Government	▪ CAB – CAD Treasury bond ▪ CAN – CAD Treasury note ▪ CAS – CAS Treasury strip ▪ CAT – CAD Treasury TIPS ▪ CATS – CAD Treasury TIP strip ▪ CTB – CAD Treasury bill ▪ TBILL – US Treasury bill ▪ TBOND – US Treasury bond ▪ TNOTE – US Treasury note ▪ TSTRP – US Treasury strip ▪ TTIPS – US Treasury TIPS ▪ TTPST – US Treasury TIP strip	N/A	N/A
Government sponsored enterprise (GE)	1 – Valued	Agency	▪ FAB – Federal agency bond ▪ FAN – Federal agency note ▪ FAS – Federal agency strip ▪ FAT – Federal agency TIPS ▪ FATB – Federal agency bill ▪ FATS – Federal agency TIP strip	N/A	N/A
Cash (CS)	1 – Valued	Currency	CASH – Cash	N/A	N/A
Letter of credit (LC)	1 – Valued	Loan	LOAN – Letter of credit	N/A	N/A
Specific deposit (SD)	0 – Margin Offset	Equity	CS – Common stock	N/A	N/A

DDS Collateral Messages and Collateral Types					
Collateral Type	**Collateral Application Type**	**Product**	**Security Type**	**Quantity Type**	**Details**
Escrow deposit (ED) with supporting collateral of equity type	0 – Margin Offset	Equity (Prod – "5")	CS – Common stock	QtyTyp – 1	When the Party Role =28, the corresponding ID identifies the bank holding the collateral for the escrow.
Escrow deposit (ED) with supporting collateral of debt type	0 – Margin Offset	Government (Prod – "6")	▪ TBILL – US Treasury bill ▪ TBOND – US Treasury bond ▪ TNOTE – US Treasury note ▪ TSTRP – US Treasury strip ▪ TTIPS – US Treasury TIPS	QtyTyp – 1	When the Party Role =28, the corresponding ID identifies the bank holding the collateral for the escrow.
Escrow deposit (ED) with supporting collateral of cash type	0 – Margin Offset	Currency (Prod – "4")	CASH – Cash	QtyTyp – "1"	When the Party Role =28, the corresponding ID identifies the bank holding the collateral for the escrow.

Instrument and Underlying Instrument Blocks

When reporting specific deposit transactions, the covered position is located in the Instrument block and the underlying collateral deposit is in the Underlying Instrument block.

When reporting escrow deposits, the covered position is located in the Instrument block. The collateral underlying the position is pledged to OCC at the escrow bank's pledge account at DTCC. Therefore, the Underlying Instrument block is included in OCC collateral messages for escrow deposits.

When reporting collateral transactions made on a valued basis, there is no specific overlying position to place in the Instrument block. In this case, the Instrument block is not shown, and the collateral is located in the Underlying Instrument block.

Underlying Current Value

The Underlying Current Value (UndrlyCurrentValue, Tag #885) tag indicates the market value currently attributed to this collateral.

Underlying Current Value (market value) is always displayed by OCC in USD, as indicated by the Ccy tag.

Total Net Value

The Total Net Value tag (TotNetValu, Tag # 900) is used to indicate the collateral value of the depository record.

Marginable deposits are valued based upon the offset of the overlying option's risk margin. Specific deposits do not have a collateral value.

All Valued deposits carry a collateral value with the exception of valued security records. Valued security inventory is subject to concentration limits which are not calculated at the inventory level; therefore, they do not carry a Total Net Value tag.

Total Net Value (collateral value) is always displayed by OCC in USD, as indicated by the Ccy tag.

Holds on Specific and Escrow Deposits

The Stip Type and Value tags (Hold Indicator Typ (Tag #233) and Val (Tag #234)) indicate whether a hold is placed on a specific or escrow deposit. If a record is flagged as held, the record and its supporting collateral are not released until the flag is removed.

Collateral Response for Margin Requirements Haircuts

FIX Message	Collateral Response
Subscription Options	Clearing Members only
Delivery Options	Batch File

Overview

OCC creates Collateral Response for Margin Requirement Haircuts messages each business day to provide members with account-specific common stock ETF-valued security and government security haircuts. This haircut information is used to calculate the requirement adjustment that an accepted deposit or withdrawal transaction generates.

Collateral Response for Margin Requirements Haircuts

Collateral Response for Margin Requirements Haircuts					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
CollRsp					
	RespID	Unique identifier for the collateral report	904	String	200007957
	RespTyp	Collateral assignment response type: ▪ 1 – Accepted	905	Integer	1
	TxnTm	Message creation date and time	60	UTC Timestamp	2022-05-17T07:48:13
	BizDt	Clearing business date (*YYYY-MM-DD*)	715	LocalMktDate	2022-05-18
	Px	Previous night's closing price	44	Price	100
➔ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ▪ 21 – Clearing organization	452	Integer	21
➔ Pty					
	ID	Clearing member number	448	String	00123
	R	Party role: ▪ 4 – Clearing firm	452	Integer	4
➔ ➔ Sub					
	ID	Account type: ▪ C – Customer ▪ F – Firm ▪ M – Market maker	523	String	C
	Typ	Sub type: ▪ 26 – Position account type	803	Integer	26
➔ Pty					
	ID	Sub account	448	String	JNP
	R	Party role: ▪ 38 – Position account	452	Integer	38
➔ Instrmt					
	Sym	Symbol (not displayed for government securities)	55	String	GGD

Collateral Response for Margin Requirements Haircuts					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
	ID	CUSIP	48	String	123456789
	Src	ID source: ▪ 1 – CUSIP	22	String	1
➔ UndColl					
	Actn	Action: ▪ 1 – Add (deposit/pledge) – Theoretical and haircut values used for deposit transactions	944	Integer	1
➔ ➔ Undly					
	Fctr	Dollar value of haircut	246	Float	80
➔ ➔ ➔ Stip					
	Typ	Type: ▪ HAIRCUT – Haircut	888	String	HAIRCUT
	Val	Haircut Amount	889	String	.80
➔ UndColl					
	Actn	Action: ▪ 2 – Remove (withdrawal/release) – Theoretical and haircut values used for withdrawal transactions	944	Integer	2
➔ ➔ Undly					
	Fctr	Dollar value of haircut	246	Float	90
➔ ➔ ➔ Stip					
	Typ	Type: ▪ HAIRCUT – Haircut	888	String	HAIRCUT
	Val	Haircut Amount	889	String	.90
➔ Stip					
	Typ	Type: ▪ 2XADV – Double average daily volume	233	String	2XADV
	Val	Amount	234	String	120000
➔ Stip					

Collateral Response for Margin Requirements Haircuts					
Report/Component Block	**Field Name**	**Data/Enumerations**	**FIX Tag**	**Data Type**	**Sample**
	Typ	Type: ▪ MAXSHARES – Valued CIM share limit	233	String	MAXSHARES
	Val	Amount	234	String	1200822
➔ Stip					
	Typ	Type: ▪ OVERMAX – Over pledged shares	233	String	OVERMAX
	Val	Amount	234	String	11000

Revision History

Edition	Date	Edition Updates
1.0	11/15/2022	Initial edition.
1.1	02/16/2024	Removed reference to treatment of insignificant white space characters from the “DDS Output Changes” table.