Weekly Industry Checkpoint Call

December 1, 2020

Agenda

- Production Statistics
- Options Exchange Linkage Updates
- General Announcements and Reminders
- Upcoming Key Dates
- Q&A

Production Statistics

Equities Compliance Statistics
November 16 – November 27, 2020

Week	Firm Count	Total Weekly Aggregate Accepted Count	Late %	Initial Rejection %	Initial Intrafirm Unlinked %	Initial Interfirm Sent Unlink %	Initial Interfirm Received Unlink%	Initial Exchange Unlink %	Initial TRF Unlink %	Initial Error %
11/16 – 11/20	1,161	68,318,527,369	.9243%	.2002%	.0051%	.7577%	1.1527%	.2406%	.5247%	1.4098%
11/23 – 11/27	1,157	50,752,683,370	1.7762%	.0590%	.0058%	1.6559%	2.1697%	.2034%	.7595%	2.3574%

Equities – Rolling Five Day Period Intervenue T+3 Error Corrections Rate November 12 – November 25, 2020

Trade Date	UNLINKED %							
	Interfirm Sent Initial	Interfirm Sent Adjusted (T+3)	Interfirm Received Initial	Interfirm Received Adjusted (T+3)	Exchange Initial	Exchange Adjusted (T+3)	TRF Initial	TRF Adjusted (T+3)
11/12/2020	.8532%	.8471%	1.1837%	.6376%	.4679%	.4660%	.8356%	.7681%
11/13/2020	.3144%	.3105%	.6876%	.5305%	.2522%	.2411%	.8850%	.8150%
11/16/2020	.3157%	.3137%	.6087%	.5780%	.3135%	.3043%	.3224%	.2426%
11/17/2020	.2743%	.2707%	.5765%	.5582%	.2582%	.2472%	.3583%	.2260%
11/18/2020	.2901%	.2856%	.8274%	.5539%	.2215%	.2199%	.3196%	.2203%
11/19/2020	.2007%	.1954%	.7051%	.4999%	.2023%	.2013%	.8338%	.7356%
11/20/2020	2.8905%	.2038%	3.1551%	.5074%	.1975%	.1961%	.8350%	.7407%
11/23/2020	5.0703%	2.4238%	5.4074%	2.5763%	.1944%	.1853%	.8290%	.8117%
11/24/2020	.1910%	.1890%	1.1023%	.5232%	.2038%	.2033%	.6476%	.6406%
11/25/2020	.3328%	.3311%	.6923%	.5294%	.1987%	.1983%	.7496%	.7426%

Options – Production Statistics
November 16 – November 27, 2020

Week	Firm Count	Total Weekly Aggregate Accepted Count	Late %	Initial Rejection %	Initial Intrafirm Unlinked %	Initial Error %	Initial Interfirm Sent Unlink %	Initial Interfirm Received Unlink%	Initial Exchange Unlink %
11/16 - 11/20	684	7,519,263,306	.9449%	.2937%	.1418%	1.3177%	.3860%	7.7754%	25.2742%
11/23 - 11/27	674	5,793,955,772	1.8019%	.0415%	.0196%	1.8535%	.2954%	1.9701%	24.9024%

Options Exchange Linkage Updates

Observations on Options Exchange Route Matching

Exchange Family	Description	Error Types	Status
NASDAQ	Firms are getting named errors from NASDAQ option exchanges due to an internal system route happening at the exchange. The original routing party is being sent on the internal route event, so FINRA CAT is attempting linkage. NASDAQ and FINRA CAT are working to resolve this issue.	NAMED only	Resolution target for 12/7/20.
CBOE	Option floor trades effected on the CBOE floor are resulting in named errors. CBOE and FINRA CAT are aware of the issue and are working toward a resolution.	NAMED only	Resolution targeted for 1/4/21.
NYSE	Option floor trades effected on the ACRAOP and AMEROP floors are resulting in named errors. NYSE Options and FINRA CAT are aware of the issue and are working toward a resolution	NAMED only	
MIAX	Sender IMID mismatches are occurring on routes to the Miami Option exchanges, since many IMID values include a trailing space. FINRA CAT strips the trailing spaces on the IM data but not on the participant side resulting in the unlinked errors. MIAX is working on a change to remove the trailing spaces from sender IMID codes on the CAT submissions.	UNLINKED & NAMED	This change was implemented on 11/20/20.
NYSE	NYSE Options is making a change to accommodate Give Up order flow. Currently, the sender IMID is being populated with the Give Up firm's IMID, instead of the IMID of the actual Routing firm. This causes both Unlinked errors for the Routing firm and Named errors for the Give Up firm.	UNLINKED & NAMED	TBD
NASDAQ	NASDAQ Options is making a change to accommodate Give Up order flow. Currently, the sender IMID is being populated with the Give Up firm's IMID, instead of the IMID of the actual Routing firm. This causes both Unlinked errors for the Routing firm and Named errors for the Give Up firm.	UNLINKED & NAMED	TBD
ALL	IMID continues to be the largest source of errors.	UNLINKED & NAMED	

FINRA CAT File Submission and Data Integrity Open Issues List – As of 12/1/2020

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
1	Open	N/A	FINRA CAT is incorrectly marking New Order Supplements as late that were submitted on a subsequent date to update an FDID of 'PENDING'. DeMinimis impact to Daily Compliance Rate and Report Cards.	Code Release	Medium	12/1/2020	12/14/2020	Statistics
2	Open	N/A	Successful file delete submissions are incorrectly getting counted in the rejected files count in the statistics. Does not impact Compliance Error Rate.	Code Release	Low	To be scheduled	To be scheduled	Statistics
3	Open	N/A	FINRA CAT is incorrectly accepting timeInForce of GTD without a valid date.	Code Release	Medium	1Q 2021	1Q 2021	Ingestion Feedback & Statistics

FINRA CAT Linkage
Open Issues List – As of 12/1/2020

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
1	Open	N/A	Parent not found and Named errors that are reconciled continue to be displayed as 'U' (Unrepaired) in Error Summary & Error Search screens. Feedback & Reporting Summary statistics are not impacted by this issue.	Code Release	High	Update: Currently evaluating alternative approach	Update: Currently evaluating alternative approach	Error Summary & Error Search Reporter Portal
2	Open	3601	Out of Sequence Errors that are caused by an incorrect Time Stamp on the parent event are not being properly reconciled when the parent Time Stamp is corrected. Repaired counts and Adjusted Unlinked Rate are impacted by this issue.	Code Release	High	Update: Jan 2021	Update: Jan 2021	Intrafirm Statistics
3	Open	Multiple	Parent not found errors are being generated for open option orders when the option symbol changes due to corporate action.	Code Release	Medium	Update: Jan 2021	Update: Jan 2021	Intrafirm Linker Feedback & Statistics

*** The Known Issues List is published on www.catnmsplan.com under "Industry Member Specifications" ***

FINRA CAT Linkage
Open Issues List – As of 12/1/2020

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
4	NEW– Open	N/A	On 3 days, some firms were unable to view the linker error feedback file via the Reporter Portal download functionality.	Under Investigation	High	N/A	N/A	Reporter Portal Download Feedback
5	NEW– Open	6000 series	FINRA CAT is not generating Unlink Exchange Errors when dupROIDCond is set to true.	Code Release	High	12/11/2020	12/11/2020	Exchange Linker Feedback
6	NEW– Open	4003	Unlink TRF Errors due to Late reported TRF events do not reconcile when the TRF Events get reported.	Code Release	High	12/11/2020	12/11/2020	Trade Linker Feedback
7	NEW– Open	7004 5004	FINRA CAT is generating unlinked named errors for exchange and TRF linkages in cases when the IM event occurred between 1:15pm (Early Close) and midnight and is not reported to CAT by 8am on the following business day. Does not impact Compliance Error Rate.	Code Release	Medium	To be Scheduled	To be Scheduled	Exchange Trade Linker Feedback

*** The Known Issues List is published on www.catnmsplan.com under "Industry Member Specifications" ***

FINRA CAT Recently Closed Issues List

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
1	Closed	N/A	FINRA CAT is incorrectly providing Route/Accept unlinked feedback to small firms not required to report until 2d.	Code Release	Medium	Update: Interfirm & Exchange –11/10/2020 Trade – 11/30/2020	Update: Interfirm & Exchange –11/10/2020 Update: Trade – 11/30/2020	Interfirm Exchange Trade Linker Feedback
2	Closed	8003 8004 6003 7004	FINRA CAT is generating Unlinked Error Codes for order events containing the handlingInstruction "SR". These will be excluded from linkage feedback when a matching routed order ID is not found.	Code Release	Medium	11/30/2020	Update: 11/30/2020	Interfirm Exchange Linker Feedback
3	Closed	7008	FINRA CAT will include the OSI symbol in Exchange Named Errors in the linkage feedback files.	Code Release	Medium	11/30/2020	Update: 11/30/2020	Exchange Linker Feedback

*** The Known Issues List is published on www.catnmsplan.com under "Industry Member Specifications" ***

FINRA CAT Open Issues List – Planned Enhancements

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date	Production Environment Targeted Release Date	Area
1	Open	2133	For Name/Value Pair Data type fields, providing a value that is not in allowable values list returns error code 2133 (Additional Field) instead of error code 2101 (Missing or Invalid timeInForce).	Code Release	Low	To be scheduled	To be scheduled	Ingestion Validations
2	Open	2122	Incorrect error code is generated when an array field (e.g., clientDetails) is provided as a Name/Value pair.	Code Release	Low	To be scheduled	To be scheduled	Ingestion Validations
3	Open	2027	Incorrect error code is being generated when eventTimestamp is a future date (2027– eventTimestamp must be in the correct format instead of 2139 – eventTimestamp is greater than the current date and time).	Code Release	Low	To be scheduled	To be scheduled	Ingestion Validations
4	Open	8003 8004 9003 9004	FINRA CAT will accept destinationType and senderType value of 'O' for route and accept events. Such events will be excluded from linkage feedback when routedOrderID is not found. Subsequent enhancement will enforce validation of allowable value 'O' only for events reported in OTC equity symbol of a foreign security.	Code Release	Medium	12/1/2020	12/14/2020	Interfirm Linkage Feedback

Planned Industry Member Technical Specification Updates– Last Updated 12/1/2020 – 2a/2b

#	Status	Summary	Release Date	Spec Version
1	Open	Add values for Boston Security Token exchange: • destination: BSTX • senderIMID: BSTX • marketCenterID: BF	12/4/20	2.2.1 r9
2	NEW-Open	Add a new WARNING Error code 396 (Incorrect timeInForce for related Primary Event). This warning will be generated on secondary event on T+2 and a 3501 error on T+4 if the timeInForce is not corrected on the Primary event	12/4/20	2.2.1 r9
3	NEW-Open	Clarify requirements for TRF Linkage: • No linkage to non-media Trade Reports • Trade Event may link to either Reporting Side or Contra Side of the trade report, but may not combine elements from both the Reporting Side and the Contra side	12/4/20	2.2.1 r9
4	NEW-Open	Change destination, senderIMID and routedQuoteID fields on MENQ event from conditional to required	12/4/20	2.2.1 r9
5	NEW-Open	New handlingInstructions values for Tied to Fixed Income, Tied to Stock, and Tied to other non CAT-reportable product	12/4/20	2.2.1 r9
6	NEW-Open	Correct error code 6018 to 6019	12/4/20	2.2.1 r9

General Announcements and Reminders

Announcements

➤ The Phase 2a/2b, Phase 2c and Phase 2d Industry Member Technical Specifications are scheduled to be published on December 4, 2020.

Reminders

➢ There are two versions of the Options Start of Day and End of Day symbol files, one with the Test Option Series flag identifying options test symbols and one without the test flag. Existing versions of the files without the test flag will continue to be available until December 14, 2020, when they will be retired. Firms that use these files should plan to transition to the new versions prior to that time.

➢ Workstations running end-of-life operating systems will be blocked from accessing CAT applications effective Monday, December 7, 2020. After that date, users will not be able to access CAT applications with the affected system until it is upgraded to a supported version of the operating system. All impacted users have been sent notification emails.

➢ The recording and presentation from 11/19/20 Monthly CAT Implementation Update is posted to catnmsplan.com.

Upcoming Key Dates

Upcoming Key Dates for Release 2a/2b

Topic	Event	Date
Industry Call: Industry Testing Checkpoint	Weekly Industry Testing Checkpoint Calls on Tuesdays at 4:15 pm ET	Tuesdays, until further notice
Compliance Go-Live	Compliance Go-Live for Options Phase 2b Interfirm and Exchange Compliance Date	January 4, 2021

The Timeline can be found at https://catnmsplan.com/timeline

How to Ask a Question during Today's Call

- **For participants using computer audio:**
  - Click the "Raise Hand" button at the bottom of the participant's window.
  - A visual prompt will indicate that your line has been unmuted.

- **For participants using phone audio:**
  - Enter *9 on your phone keypad.
  - An audio prompt will indicate that your line has been unmuted.

FINRA CAT Helpdesk

Questions may be directed to the FINRA CAT Helpdesk at 888-696-3348 or help@finracat.com