
Industry Checkpoint Call

September 14, 2021

Agenda

- Production Statistics
- Open Issues
- ARCAOP Pillar Testing
- SIFMA Test
- General Announcements and Reminders
- Upcoming Key Dates
- Phase 2d Updates
- Q&A

Production Statistics

Equities – Rolling Five Day Period

Initial T+1 vs. T+5 8 am Data Ready for Regulators

August 26, 2021 – September 8, 2021

Trade Date	Late%	Rejection Initial	Rejection Adjusted	Intrafirm Initial	Intrafirm Adjusted	Interfirm Sent Initial	Interfirm Sent Adjusted	Interfirm Received Initial	Interfirm Received Adjusted	Exchange Initial	Exchange Adjusted	TRF Initial	TRF Adjusted	Overall Error Rate Initial	Overall Error Rate Adjusted
8/26/2021	.0819%	.0015%	.0000%	.0027%	.0020%	.2108%	.0143%	.1294%	.0178%	.0150%	.0139%	1.8321%	1.8063%	.1322%	.0914%
8/27/2021	.5918%	.0062%	.0013%	.0025%	.0023%	.0262%	.0257%	1.6536%	.0200%	.0177%	.0162%	1.6795%	1.6493%	.8172%	.6031%
8/30/2021	2.0919%	.0024%	.0016%	.0049%	.0041%	3.1164%	.0338%	1.4997%	.0290%	.0186%	.0172%	2.5144%	2.4895%	2.6801%	2.1090%
8/31/2021	.0591%	.0252%	.0155%	.0124%	.0107%	.0272%	.0257%	.0796%	.0222%	.0173%	.0163%	1.8957%	1.8667%	.1107%	.0922%
9/1/2021	.0073%	.0025%	.0001%	.0073%	.0031%	.0374%	.0195%	.0447%	.0224%	.0172%	.0169%	1.8053%	1.7694%	.0297%	.0198%
9/2/2021	.0058%	.0017%	.0003%	.0056%	.0048%	.0172%	.0097%	.9555%	.9360%	.0169%	.0166%	1.9183%	1.8896%	.1401%	.1347%
9/3/2021	.0910%	.0023%	.0001%	.0075%	.0065%	.0184%	.0176%	.0231%	.0198%	.7258%	.0158%	1.9628%	1.9312%	.2388%	.1049%
9/7/2021	.1338%	.0024%	.0001%	.0062%	.0042%	.1771%	.0204%	.1832%	.0216%	.0012%	.0008%	2.8470%	2.8108%	.1890%	.1453%
9/8/2021	.0654%	.0146%	.0010%	.0045%	.0039%	.2940%	.0780%	.2645%	.0196%	.0008%	.0008%	1.8561%	1.8344%	.1553%	.0830%

Options – Rolling Five Day Period

Initial T+1 vs. T+5 8 am Data Ready for Regulators

August 26, 2021 – September 8, 2021

Trade Date	Late%	Rejection Initial	Rejection Adjusted	Intrafirm Initial	Intrafirm Adjusted	Interfirm Sent Initial	Interfirm Sent Adjusted	Interfirm Received Initial	Interfirm Received Adjusted	Exchange Initial	Exchange Adjusted	Overall Error Rate Initial	Overall Error Rate Adjusted
8/26/2021	.0001%	.0124%	.0118%	.0082%	.0079%	.0526%	.0435%	.0597%	.0042%	.0800%	.0790%	.0456%	.0438%
8/27/2021	.0002%	.0088%	.0080%	.0053%	.0052%	.0594%	.0497%	.0592%	.0041%	.0733%	.0727%	.0387%	.0366%
8/30/2021	1.4037%	.0049%	.0039%	.0054%	.0049%	11.7380%	.0477%	.1361%	.0067%	.0820%	.0814%	1.6109%	1.4389%
8/31/2021	.0001%	.0058%	.0051%	.0050%	.0047%	.0516%	.0432%	.0609%	.0059%	.0262%	.0249%	.0195%	.0172%
9/1/2021	.0056%	.0066%	.0058%	.0078%	.0076%	.0603%	.0467%	.1939%	.0192%	.0301%	.0287%	.0287%	.0246%
9/2/2021	.1250%	.0029%	.0021%	.0043%	.0042%	.1431%	.0497%	.4410%	.0020%	.0328%	.0322%	.1502%	.1413%
9/3/2021	1.8775%	.0090%	.0077%	.0065%	.0062%	.0631%	.0545%	.0672%	.0053%	.0298%	.0295%	1.9026%	1.9000%
9/7/2021	.0177%	.0026%	.0016%	.0064%	.0051%	.0618%	.0524%	.0873%	.0051%	.0305%	.0304%	.0368%	.0336%
9/8/2021	.0169%	.0189%	.0182%	.0073%	.0060%	.0608%	.0573%	.0765%	.0553%	.0311%	.0309%	.0526%	.0507%

Open Issues (2c)

FINRA CAT File Submission and Data Integrity 2c

Open Issues List – As of 9/14/2021

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
1	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	2021	2021	Statistics
2	Open	N/A	FINRA CAT did not recognize the early close and improperly marked events that occurred between 1:15 and 4:15 pm ET and were reported by 8 am ET on the next CAT Trading Day as late events. Impact is limited to two days - 11/27/2020 & 12/24/2020.	Code Release	Low	2021	2021	Statistics
3	Open	N/A	File statistics screen is incorrectly displaying a blank integrity status in instances where the failure was due to a timeout or a duplicate file submission.	Code Release	Low	2021	2021	Reporter Portal
4	Open	N/A	Industry Members are intermittently experiencing a delayed display of file submissions and status in the File statistics screen on the Reporter Portal. This issue does not impact file feedback files.	Code Release	Low	2021	2021	Reporter Portal

FINRA CAT File Submission and Data Integrity 2c

Open Issues List – As of 9/14/2021

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
5	Open	2129	FINRA CAT is incorrectly accepting firmDetails with no firmDesignatedID populated on Fulfillment and Fulfillment Amendment Events.	Code Release	Low	2c: 10/11/2021	2c: 10/11/2021	Ingestion Validations
						2d: 10/11/2021	2d: 12/13/2021	
6	Open	2121 2122	FINRA CAT is incorrectly accepting clientDetails with no orderID populated on Fulfillment and Fulfillment Amendment Events.	Code Release	Low	2c: 10/11/2021	2c: 10/11/2021	Ingestion Validations
						2d: 10/11/2021	2d: 12/13/2021	
7	Open	2098 2060	FINRA CAT is incorrectly rejecting allocation events when the symbol was effective on the tradeDate but not effective on the event date on the allocation event.	Code Release	Medium	Update: 2d Only Change	Update: 2d Only Change	Ingestion Validations
						2d: 10/25/2021	2d: 12/13/2021	

FINRA CAT Linkage 2c

Open Issues List – As of 9/14/2021

#	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: 1Q 2022	Update: 1Q 2022	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	Low	Update: 2021 Note that this issue only impacts Options Intravenue Exchange Errors	Update: 2021 Note that this issue only impacts Options Intravenue Exchange Errors	Intrafirm Linker Feedback & Statistics
4	Open	9004 8004 7004 5004	FINRA CAT did not recognize the early close and improperly marked as unlinked, certain events that occurred between 1:15 and 4:15 pm ET and were reported by 8 am ET on the next CAT Trading Day. Any events that were marked as unlinked were automatically reconciled the following day. Impact is limited to two days - 11/27/2020 & 12/24/2020.	Code Release	Low	2021	2021	Interfirm Exchange Trade Linker Feedback

FINRA CAT Linkage 2c

Open Issues List – As of 9/14/2021

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
5	Open	396	FINRA CAT is incorrectly generating warnings on secondary events in instances where the parent DAY order was subsequently modified to a GTC order.	Code Release	Medium	2Q 2022	2Q 2022	Intrafirm Linker Feedback
6	Open	8003 8004 9003 9004 4003 5004	FINRA CAT is incorrectly generating an unlinked error for the first time on T+4 for previously linked events in scenarios when the two events that were initially linked occurred on two separate trade dates. For example, an order routed at 6 pm on one calendar day and is reported as accepted by the receiving firm at 8 am on the next calendar day.	Code Release	Medium	10/24/2021	10/24/2021	Interfirm & TRF Linker Feedback
7	Open	6003	Industry Members are incorrectly receiving options exchange unlinked errors for subsequent day order modifications/ adjustments to long lived orders previously routed to the exchange. Options exchanges must report modifications in these instances. Nine firms impacted.	N/A	Medium	3Q 2021	3Q 2021	Options Exchange Linker Feedback
8	Open	6003 7004 8003 8004 9003 9004	FINRA CAT is generating an incorrect unlinked error when the date portion of the Route Event timestamp is on a weekend and the date portion of the Modify Event timestamp is for the next business day.	Code Release	Low	9/24/2021	9/24/2021	Interfirm & Exchange Linkage Feedback

FINRA CAT Linkage 2c

Open Issues List – As of 9/14/2021

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
9	NEW-Open	NA	FINRA CAT is providing an incorrect feedbackVersion in the feedback metafile for linkage discovery errors.	Code Release	Low	2c: 9/24/2021	2c: 9/24/2021	Linker Feedback
						2d: 10/11/2021	2d: NA	

FINRA CAT Open Issues List 2c

Planned Enhancements

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date	Production Environment Targeted Release Date	Area
1	Open	2122	Incorrect error code is generated when an array field (e.g., clientDetails) is populated as a Name/Value pair.	Code Release	Low	To be scheduled	To be scheduled	Ingestion Validations
2	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
3	Open	2060	Enhance OSI symbol validations to accept symbols that are on the CAT Reportable Securities list even if event date is prior to effective date.	Code Release	Low	2c: 9/20/2021	2c: 9/20/2021	Ingestion Validations
						2d: 10/25/2021	2d: 12/13/2021	
4	Open	2101	Accept, rather than reject, routes to a foreign destination when the date in the name/value pair for timeInForce values of 'DAY' and 'GTX' is T+2 to accommodate orders routed on a foreign holiday.	Code Release	Low	2c: 10/11/2021	2c: 10/11/2021	Ingestion Validations
						2d: 10/11/2021	2d: 12/13/2021	

FINRA CAT Linkage 2c

Recently Closed Issues – As of 9/14/2021

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
1	Closed	3504	FINRA CAT is generating an incorrect parent not found error for representative orders originated to aggregate other representative orders.	Code Release	Medium	Update: 8/10/2021	Update: 8/10/2021	Intrafirm Linkage Feedback

Open Issues (2d)

FINRA CAT File Submission and Data Integrity 2d

Open Issues List – As of 9/14/2021

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
1	Open	2110	FINRA CAT is incorrectly rejecting side details with no orderID and orderKeyDate on MOOT event.	Code Release	Medium	10/11/2021	Not Applicable	Ingestion Validations
2	Open	2145	FINRA CAT is incorrectly accepting firmDetails with no orderID populated on Fulfillment and Fulfillment Amendment Events in instances when the fulfillmentLinkType is 'OML'.	Code Release	Low	10/11/2021	Not Applicable	Ingestion Validations

FINRA CAT Linkage 2d

Recently Closed Issues List – As of 9/14/2021

#	Status	Error Code	Summary	Resolution	Priority	Test Environment Targeted Release Date/Workaround	Production Environment Targeted Release Date/Workaround	Area
1	Closed	Multiple	FINRA CAT is not generating unlinked named errors when the unlinked error is originated from an exchange modification event.	Code Release	Low	8/23/2021	Not Applicable	Exchange Linkage Feedback

Upcoming Technical Specification Updates

#	Status	Summary	Spec Publish Date	Spec Version
1	Open	Correct the definition of MLOA Route Linkage Key to include <i>receiverIMID</i> instead of <i>destination</i> .	October 2021	4.0.0 r11
2	Open	Make <i>numberOfLegs</i> field optional on the following cancel events: MLCR, MLIC, MLICR, MLCOC.	October 2021	4.0.0 r11
3	Open	Add <i>handlingInstructions</i> value 'PCS' (Position Compression Service).	October 2021	4.0.0 r11
4	Open	Correct the definition of MEOT Exchange Trade Linkage Key to include <i>symbol</i> instead of <i>optionID</i> .	October 2021	4.0.0 r11
5	Open	Change <i>electronicTimestamp</i> field on MEOT and MOOT events from conditional to optional.	October 2021	4.0.0 r11
6	Open	Update the definition of <i>initiator</i> field value 'C' from Initiated by the Customer to Initiated by the Customer/Client.	October 2021	4.0.0 r11
7	Open	Clarify that <i>legDetails.openCloseIndicator</i> is not needed for equity orders.	October 2021	4.0.0 r11
8	Open	Reject MEOT records if <i>buyDetails.side</i> field is populated with values SL, SS, SX or if the <i>sellDetails.side</i> field is populated with value B.	October 2021	4.0.0 r11

2d Allocation Event Validation Update

- ▶ Change *symbol* field validation on Allocation events from Event Date to *tradeDate*
 - Starting in Phase 2d, *tradeDate* will be used to validate the *symbol* populated on MEPA/MEAA events and *optionID* populated on MOPA/MOAA events
 - Allocation events reported on T+n must be reported using the symbol list published on T (*tradeDate*).
 - Firms must report allocation events even if the *symbol* or *optionID* retires, and FINRA CAT will validate them using the CAT Reportable Equity Securities Symbol Master published on T (*tradeDate*).

ARCAOP Pillar Testing

NYSE Arca Options Pillar Testing

- New Trading Platform
- New Trading Mnemonics (MPID) for CAT IMID
- New Session IDs

FINRA CAT will perform Intervene Linkage and provide feedback for the following Saturday test dates.

ARCAOP Saturday Test Date	FINRA CAT Assigned Trade Date	Submissions Due	Last Submission for Linkage	Test Environment/ Format
9/11/2021	9/13/2021	9/14/2021 8am	9/17/21 8am	Industry Test/ Phase 2d
9/18/2021	9/20/2021	9/21/2021 8am	9/24/2021 8am	Prod Mirror/ Phase 2c*
10/16/2021	10/18/2021	10/19/2021 8am	10/25/2021 8am	Industry Test/ Phase 2d

*Please note the change to the test environment to support file submission in the Phase 2c format for 9/18/2021 test date.

SIFMA Test

2021 CAT SIFMA Test

- ▶ FINRA CAT and selected CAT Reporters will participate in the 2021 SIFMA test
- ▶ Selected CAT Reporters have been notified
- ▶ FINRA CAT plans to use its Enhanced Disaster Recovery Environment (EDR) in AWS East-2 Region
 - FINRA CAT's EDR environment is available as of September 1, 2021 for CAT reporters to test connectivity (please see the IM Connectivity Guide)
- ▶ Some Environments in the East 1 and East 2-EDR will be unavailable between October 21 and October 26, 2021
- ▶ For more details, please see the [July 13, 2021 Industry Testing Checkpoint Call](#)

General Announcements and Reminders

Announcements

- Since the last Checkpoint on August 10, 2021, the following documents have been posted to the CAT website:
 - New document, [Transition Support: Schema Changes to Existing Phase 2c Events v1.0](#)
 - Updated [Industry Member Schema v4.0.0 r10 \(2d\)](#) to capture updates from the Phase 2d Technical Specifications
 - Updated [Order Routing Field Mapping between CAT and Exchanges v2.3](#) to include updates for the ARCAOP Pillar Migration
 - Updated [FINRA CAT Connectivity Supplement for Industry Members v1.12](#) to include updates to section 4.3.5 (Additional Access Requirements)

Other General Reminders

- The next Phase 2d coordinated industry test is on CAT Trading Day Friday, October 1, 2021.
 - Participation in the industry tests is optional, but all Industry Members are encouraged to participate.
 - Please refer to [CAT Alert 2021-03](#) for additional information.
- ▶ The [2021 Entitlement Certification Period for CAT Reporting Agents](#) is scheduled for September 13, 2021 – November 15, 2021.
 - Not Applicable to Industry Members.
 - During this period, each organization is required to review and verify all CAT accounts (user, administrator, machine).

Upcoming Webinars

- On [September 21](#) and [September 22](#), 2021 at 4:15 am ET, Consolidated Audit Trail, LLC and FINRA CAT, LLC will host an industry webinar focusing on the CAT costs and CAT funding. Further details will be posted as we get closer to the webinar.
- The next [Industry Testing Checkpoint Call](#) will be Tuesday, September 28, 2021 at 4:15 pm ET.
- The next [Monthly CAT Implementation Update](#) will be Thursday, October 21, 2021 at 4:15 pm ET.

Recently Posted Webinars

- Since the last Checkpoint on August 10, 2021, the following documents have been posted to the CAT website:
 - [Monthly CAT Implementation Update \(September 9, 2021\)](#)
 - [Monthly CAT Implementation Update and FINRA \(SRO\) Status Update on OATS Retirement \(August 19, 2021\)](#)
 - [ARCAOP Pillar Testing in the Test Environment \(September 7, 2021\)](#)

Upcoming Key Dates

Upcoming Key Dates for Phase 2d

Topic	Event	Date
Industry Call: Industry Testing Checkpoint	Periodic Industry Testing Checkpoint Calls – Designated Tuesdays at 4:15 pm (ET)	January 7, 2020 until further notice
Compliance Go-Live	Production Go-Live for Phase 2d reporting requirements	December 13, 2021

Phase 2d Updates

Industry Member 2d Release Rollout

Release 2d1 Industry Test – 6/28/2021	Release 2d2 Industry Test – 7/19/2021	Release 2d3 Industry Test – 8/2/2021	Release 2d4 Industry Test – 8/23/2021	2d Go-live Production – 12/13/2021
<p>Ingestion Industry Test Open for Machine-to-Machine File & Data Integrity Validations & Feedback</p> <ul style="list-style-type: none"> • Syntax Validations • Conditional Validations <p>CAT Reporter Portal</p> <ul style="list-style-type: none"> • Manual File Upload • Reporting Summary Statistics 	<p>Intrafirm Linkage Industry Test Open for Machine-to-Machine Intrafirm Linkage Validations & Feedback</p> <ul style="list-style-type: none"> • Reference Data Validations on <i>senderIMID, receiverIMID, destination</i> and <i>legDetails</i> OptionID/Symbol <p>CAT Reporter Portal</p> <ul style="list-style-type: none"> • Linkage File feedback • Linkage Statistics • Error Summary and Error Search including Error Correction • Direct Data Entry 	<p>Interfirm Linkage Industry Test Open for Machine-to-Machine Interfirm/Exchange Linkage Validations & Feedback</p> <ul style="list-style-type: none"> • Interfirm Quote Linkage • Interfirm/Exchange linkage for Route Modification Events including Unlinked feedback for Routed Order ID Mismatch • Firm to Exchange Trade Linkage for MOOT Events <p>CAT Reporter Portal</p> <ul style="list-style-type: none"> • Support Clearing Firm View of Correspondent Reporting Feedback submitted by Third-Party Vendor 	<p>Multi-leg Linkage Industry Test Open for Machine-to-Machine Multi-leg Linkage Validations & Feedback</p> <ul style="list-style-type: none"> • Interfirm & Exchange for Multi-leg Events • Intrafirm Out of Sequence checks <p>CAT Reporter Portal</p> <ul style="list-style-type: none"> • Reconciliation Statistics • Counterparty Statistics for MOOT linkages 	<p>Ingestion & All Linkage Production Open for Machine-to-Machine File, Data Integrity and All Linkage Validations & Feedback</p> <p>CAT Reporter Portal</p> <ul style="list-style-type: none"> • Manual File Upload • Reporting Summary Statistics including reconciliation • Counterparty Statistics for MOOT linkages • Linkage File Feedback • Error Summary and Error Search including Error Correction • Direct Data Entry • Support Clearing Firm View of Correspondent Reporting Feedback submitted by Third-Party Vendor

Phase 2d Compliance Date – 12/13/2021

2d Statistics & Observations

As of September 8, 2021

- Total **562** Unique Firms in Industry Test
- Total **107** Unique Submitters in Industry Test
- Overall File Rejection Rate is **5.48%**
- Approximately **10.17%** of submissions are New 2d Events; **0.42%** of submissions are Multi-leg Events
- Most of the Unlinked Interfirm, Exchange and Trade are due to:
 - Not all firms reporting in Test Environment
 - Firms reporting test symbols that are matched with production data for Exchange and Trade Linkage

Equities – Rolling Five Day Period (CT)

Initial T+1 vs. T+5 8 am Data Ready for Regulators

August 26, 2021 – September 8, 2021

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8/26/2021	.5389%	.0744%	.0744%	.0165%	.0165%	83.0644%	83.0643%	6.6816%	6.6812%	10.0273%	10.0273%	89.9436%	89.9436%	13.1284%	13.1283%
8/27/2021	7.7601%	.9410%	.9410%	.0269%	.0269%	89.1186%	88.5282%	44.3062%	44.3062%	7.0311%	7.0311%	62.3758%	62.3757%	19.6059%	19.5389%
8/30/2021	.6740%	.1330%	.1330%	.0705%	.0705%	85.1363%	85.1363%	9.3106%	8.7413%	.0138%	.0138%	.0270%	.0107%	10.5033%	10.4871%
8/31/2021	2.8926%	.1694%	.1694%	.0050%	.0050%	85.4641%	85.4637%	14.3221%	14.3213%	2.6014%	.0202%	.2218%	.2218%	13.0631%	12.4502%
9/1/2021	2.6758%	.1680%	.1680%	.0029%	.0029%	86.1882%	86.1882%	15.6419%	15.6419%	.0088%	.0088%	.0312%	.0312%	12.5074%	12.5074%
9/2/2021	3.6264%	.2510%	.2510%	.0036%	.0036%	86.4144%	86.4138%	16.4700%	16.4700%	3.9070%	3.9070%	.0625%	.0582%	14.3358%	14.3358%
9/3/2021	2.1636%	1.9343%	1.9343%	.0740%	.0740%	83.9212%	83.7595%	45.0703%	44.9319%	.4543%	.0168%	.0306%	.0279%	15.6983%	15.5723%
9/7/2021	1.4362%	1.0320%	1.0320%	.0569%	.0569%	87.3694%	87.3536%	10.5582%	10.5422%	.0017%	.0000%	.0329%	.0328%	12.0272%	12.0250%
9/8/2021	.9422%	.2500%	.2500%	.0074%	.0073%	82.3252%	82.3220%	11.7574%	11.7510%	.0001%	.0001%	.0072%	.0072%	10.9481%	10.9474%

Options – Rolling Five Day Period (CT)

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8/26/2021	1.3159%	3.9726%	3.9726%	3.9955%	3.9955%	.6817%	.6817%	22.4872%	22.4871%	23.4211%	23.4211%	14.9113%	14.9113%
8/27/2021	7.0652%	5.1478%	5.1478%	3.9289%	3.9289%	1.3680%	1.3616%	19.2775%	19.2771%	20.8408%	20.8408%	21.0810%	21.0806%
8/30/2021	.8667%	6.3570%	6.3570%	5.4539%	5.4539%	1.5759%	1.5759%	19.8743%	19.8740%	.8326%	.8326%	11.3457%	11.3457%
8/31/2021	.0009%	.1117%	.1117%	3.5338%	3.5338%	.3763%	.3763%	20.0665%	20.0663%	.5692%	.5692%	4.1154%	4.1154%
9/1/2021	.0021%	.0788%	.0788%	1.7300%	1.7300%	3.7681%	3.7660%	21.8320%	21.8316%	1.0957%	1.0957%	2.7375%	2.7375%
9/2/2021	.4977%	3.0119%	3.0119%	2.9147%	2.9147%	4.3144%	4.3143%	21.7125%	21.7115%	1.1085%	1.1085%	6.8210%	6.8209%
9/3/2021	5.8075%	8.4856%	8.4856%	11.5402%	11.5309%	.2679%	.2679%	26.8508%	26.7907%	.7102%	.7102%	17.4072%	17.4033%
9/7/2021	.0099%	.0115%	.0115%	.3023%	.3023%	.3246%	.3246%	23.7624%	23.7618%	6.2817%	6.2817%	3.8734%	3.8734%
9/8/2021	42.7203%	.1286%	.1286%	.2081%	.2081%	6.1326%	6.1326%	11.7035%	11.6858%	4.6988%	4.6988%	44.5691%	44.5684%

Phase 2d Coordinated Industry Tests

- 363 unique IMIDs submitted for the 9/10/21 Coordinated Industry Test
- The list of Participating IMIDs is posted to the Reference Data page of the CAT website
- Upcoming Key Dates for the Phase 2d Coordinated Industry Tests:

<u>Test Number</u>	CAT Trading Day of the Coordinated Industry Test	Data Due to Industry Test	List of Participating IMIDs Posted as Reference Data on the CAT Website
2	10/1/21	By 8 am on 10/4/21	By 9 am on 10/6/21
3	10/15/21	By 8 am on 10/18/21	By 9 am on 10/20/21
4	10/29/21	By 8 am on 11/1/21	By 9 am on 11/3/21
5	11/12/21	By 8 am on 11/15/21	By 9 am on 11/17/21
6	11/26/21	By 8 am on 11/29/21	By 9 am on 12/1/21

FINRA CAT Helpdesk

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

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.