## **Industry Test Release Status**

December 30, 2019

### Agenda

- Industry Test Release Update
- Announcements/Reminders
- Upcoming Key Dates
- Follow-Up Demo of CAT Reporter Portal Functionality
- Q&A

## **Industry Test Release Update**

#### Access

#### **CAT Reporter Portal**

Method	Industry Test URL
CAT Secure Reporting Gateway	https://srg.ct.catnms.com
Private Line	https://reporterportal.ct.catnms.com
AWS PrivateLink (January 27)	https://reporterportal-pl.ct.catnms.com

#### Machine-to-Machine

Method	Industry Test URL
Private Line	sftp.ct.catnms.com
AWS PrivateLink	sftp-pl.ct.catnms.com

## Industry Member 2a/2b - Release 1 (File & Data Integrity) Release Rollout

#### Live in Industry Test

#### 11/18/2019 Industry Test Release 1.1

- CAT Reporter Portal: ATS Order Types
- CAT Reporter Portal: CAT Reporting Relationships
- Multi-Factor Authentication Enabled
- Publication of IMID & Conflict List to catnmsplan.com
- Publication of Issue/Option Symbol Reference Lists to catnmsplan.com

#### 12/16/2019 Industry Test Release 1.2

- Industry Test Open for Machine-to-Machine File
   Data Integrity
   Validations & Feedback
- CAT Reporter Portal: Basic File Statistics
- CAT Reporter Portal: Manual File Upload

#### 2/24/2020 Industry Test Release 1.3

- CAT Reporter Portal: File Submission feedback
- CAT Reporter Portal:
   Reporting Statistics (i.e.
   number of records
   received, accepted,
   rejected and feedback
   summaries)
- CAT Reporter Portal: Error Rates
- CAT Reporter Portal: Direct data entry & corrections
- CAT Reporter Portal: Bulk Repair of applicable Syntax/Semantic Errors

#### 03/23/2020 Industry Test Release 1.4

- Announcements
- System Status

#### 4/20/2020 – 2a Go-Live 5/18/2020 – 2b Go-Live

- 2a Go-Live Industry Member 2a Reporting Required on April 20
- 2b Go-Live Industry Member 2b Reporting Required on May 18

# Industry Test Status – As of December 27, 2019 Statistics

ltem	Statistic
Number of Reporting Relationships Entered	369 relationships from 193 firms
Number of ATS Relationships Entered	65 order types from 9 ATS firms
Number of Total Submitters	49
Number of IMIDs	146
Number of Files Received	<ul><li>9,661</li><li>Reporter Portal: 864</li><li>Private Line: 8,797</li></ul>
Number of Files Rejected	2010
File Reject Rate	20.81%
Number of Records Processed in Ingestion Phase (Record level validations)	236,758,193
Number of Processed Records Rejected	61,035,807
Current Reject Rate Overall of Processed Data	25.78%

## Industry Test Status – As of December 27, 2019 Statistics

CAT Processing Date	# Total Submitters	# of IMIDs	# of Files Received	# of Files Rejected	File Reject Rate	# of Validated Records	# of Validated Records Rejected	Current Validated Reject Rate
12/13/2019	3	2	365	365	100.00%	0	0	0.00%
12/16/2019	22	80	1944	1044	53.70%	26,647,869	10,095,937	37.89%
12/17/2019	24	75	2916	88	3.02%	51,957,512	5,575,087	10.73%
12/18/2019	22	38	1135	59	5.19%	19,325,855	634,886	3.29%
12/19/2019	22	39	420	73	17.38%	28,622,765	13,105,408	45.79%
12/20/2019	22	52	578	227	39.27%	28,333,867	12,691,987	44.79%
12/23/2019	20	44	1,266	50	3.95%	26,859,653	10,033,121	37.35%
12/24/2019	16	34	293	21	7.17%	13,056,920	5,332,278	40.84%
12/26/2019	17	40	428	50	11.68%	19,627,415	3,092,827	15.76%
12/27/2019	21	40	316	33	10.44%	22,326,337	474,276	2.12%
Total			9,661	2,010	20.81%	236,758,193	61,035,807	25.78%

#### FINRA CAT Observations

- > FINRA CAT observed file and ingestion rejections due to the following:
  - Missing Reporting Relationships Files will be rejected if relationships are not yet established
  - Invalid file name constructs. Examples include:
    - SubmitterID is incorrect
    - fileSequence should be 6 digits
    - file type should be OrderEvents
  - Data file name in the meta file must be the full file name including compression and extension
  - Case sensitivity in JSON Labels in meta data files are case sensitive

### Known FINRA CAT Issues – Open

Status	Summary	Resolution	Workaround	Release/Targeted Release	Area
Open	FINRA CAT is accepting the following scenario instead of rejecting - Equity events where the representative indicator or the fulfillment link type value is 'O'.	Code Release	None	To Be Scheduled	Validations
Open	FINRA CAT is accepting the following scenario instead of rejecting - Future dates in some fields.	Code Release	None	To Be Scheduled	Validations
Open	FINRA CAT is accepting the following scenario instead of rejecting - Route Event with Destination Type of 'E' or 'F' and Sender IMID of <blank>.</blank>	Code Release	None	To Be Scheduled	Validations
Open	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	None	To Be Scheduled	Validations
Open	For Name/Value Pair Data type fields providing a null value for a required field such as timeInForce of 'GTD' with a value of null instead of an expiration date causes ingestion processing issues.	Code Release	None	To Be Scheduled	Validations
Open	Metadata File Rejection count does not correctly count all scenarios such as meta block errors, invalid metadata file name, etc.	Code Release	None	To Be Scheduled	Validations
Open	Metadata file having base filename of data file instead of the full filename does not generate time out error on data file.	Code Release	None	To Be Scheduled	Validations

#### Known FINRA CAT Issues – Closed

Status	Summary	Resolution	Workaround	Release/Targeted Release	Area
Closed	FINRA CAT Network Team is assisting some firms with additional details related to their use of IP proxy based access.  FINRA CAT is updating the Connectivity Supplement with additional firewall and URL information in support of Industry member's use of IP Proxy based access. These details are also provided in the Appendix of the 12/17 Industry Release Checkpoint Presentation.	Documentation Update	N/A	12/20/2019	Network
Closed	Allowable values included in latest Technical Specification 2.2.1 r2 need to be updated in Industry Test.	Code Release	None	12/19/2019	Validations
Closed	Acknowledgement Feedback Files only include base filename.  Per specification, acknowledgements should include the full filename.	Code Release	None	12/19/2019	Validations
Closed	FINRA CAT is accepting the following scenario instead of rejecting - Values populated in 'Reserved for Future Use' fields.	Code Release	None	12/19/2019	Validations
Closed	FINRA CAT experienced an SFTP connectivity issue on December 18, 2019 at 9:37 p.m. to December 19 at 11:05 a.m. CAT Reporters were unable to submit via SFTP during this time period; however, Manual File Upload via the CAT Reporter Portal was not impacted.	Configuration Change	None	N/A	File Submission

#### Announcements/Reminders

## Change to Onboarding Requirements – Introduction of Industry Member CAT Reporter Limited Testing

- > Original Requirement: To gain entitlement to CAT Systems, all Industry Members required to sign a CAT Reporter Agreement.
- ➤ New Requirement: Industry Member CAT Reporters that have not yet signed the CAT Reporter Agreement may be entitled to the IM Test Environment if they sign an *Industry Member Limited Testing*Acknowledgement Form. Limitations:
  - IM CAT Reporters using this method will be prohibited from submitting production data. Any data must either be fabricated test data or obfuscated.
  - IM CAT Reporters **MUST** complete their Production Readiness Testing with Production data (required by April 6 for 2a and May 4 for 2b).

## Onboarding Guideline Change – Introduction of CAT Reporter Limited Testing Form

**SAAs Grant** Submit CAT Establish CAT **CAT Admin** Reporter Submit CAT Request Reporting Access Certification Create/Entitle Agreement or Reporter Registerfor Secure File Manage Relationships Conduct **IM Limited** User of Production CRAs Agreement CAT Transfer & ATS Order Connectivity **Testing** Readiness Testing Accounts Designate a Types (if Accounts (if applicable) Acknowledge-**CAT Account** applicable) ment Form Administrator

#### Other Release Notes & Reminders

- Private line connectivity to CAT needs to be established and a connectivity ping test completed as soon as possible.
- ➤ If private line connectivity is NOT yet established, Industry Members may still begin testing using the CAT Reporter Portal via the Manual File Upload. Requirements for CAT Reporter Portal:
  - ✓ Industry Members must have a signed CAT Reporter Agreement or a Industry Member Limited Testing Acknowledgement Form
  - ✓ A CAT Reporter Portal CAT Admin or User account must be established
  - ✓ The SRG requires multi-factor authentication (MFA) to establish a secure, encrypted session before accessing the CAT Reporter Portal
  - ✓ No limit in choice of Internet Service Providers and no specialized client software is required to be installed other than a modern web browser (HTML5 Compatible browsers including: Chrome, Firefox and Safari)

#### Other Release Notes & Reminders

- ➤ Industry Members must certify with a day of Production data by April 6, 2020 for 2a and May 4, 2020 for 2b.
- Firms may use limited historical data to submit to the Industry Test Environment (from November 15, 2019 forward).

## **Upcoming Key Dates**

## Upcoming Key Dates for Release 2a/2b

Topic	Event	Date
Industry Call: Industry Testing Checkpoint	Weekly Industry Testing Checkpoint Calls – Every Tuesday at 4:15 pm (ET)	January 7 – March 20, 2020
Connectivity	Connectivity Supplement updated to include AWS PrivateLink information	January 3, 2020
Industry Webinar	CAT 101 Primer Webinar	January 8, 2020
Industry Webinar and Demo	Industry Webinar covering: - PrivateLine Connectivity & AWS PrivateLink - Review of Industry Release 1.3 Functionality and Demo	January 15, 2020
Connectivity	AWS PrivateLink available for 2a/2b machine-to-machine file submission and CAT Reporter Portal	January 27, 2020
Plan Participant UAT	Plan Participant UAT begins for February Industry Test Release	February 3, 2020
User Guide Publication	CAT Reporter Portal User Guide Published for February Release	February 10, 2020
Industry Webinar and Demo	CAT Reporter Portal Industry Webinar and Demo of Industry Test Release 1.3 functionality	February 14, 2020
Industry Test Release 1.3	Industry Test Release of: - CAT Reporter Portal Error Correction and Feedback	February 24, 2020
Industry Webinar and Demo	Industry Test Release 1.3 Go-Live Checkpoint and CAT Reporter Portal Demo of: - Submission, Error Correction & Feedback	February 25, 2020
Industry Test Release 1.4	Industry Test Release of: - CAT Reporter Portal Announcements & System Status	March 23, 2020
Industry Call: Industry Testing Checkpoint	Daily Industry Testing Checkpoint Calls at 4:15 pm (ET)	March 23, 2020 – April 3, 2020

## Upcoming Key Dates for Release 2a/2b

Торіс	Event	Date
Industry Test Certification	Industry Members and CAT Reporting Agents must complete production readiness testing for 2a reporting	April 6, 2020
Industry Call: Industry Testing Checkpoint	Weekly Industry Testing Checkpoint Calls - Every Tuesday at 4:15 pm (ET)	April 6, 2020 – May 1, 2020
Production Readiness	Production Environment Opens for Production Readiness	April 13, 2020
Production Go-Live	Production Go-Live for Equities 2a file submission and data integrity validations	April 20, 2020
Industry Call: Production Release Checkpoint	uction Release Checkpoint Industry Call - Status of 2a Go-Live	
Industry Test Certification	ustry Test Certification Industry Members and CAT Reporting Agents must complete production readiness testing for 2b reporting	
Industry Call: Industry Testing Checkpoint	Daily Industry Testing Checkpoint Calls at 4:15 pm (ET)	May 4, 2020 – May 15, 2020
Production Go-Live	Production Go-Live for Options 2b file submission and data integrity validations	May 18, 2020
Industry Call: Production Release Checkpoint	Industry Call - Status of 2b Go-Live	May 19, 2020
Industry Webinar and Demo	Industry Webinar and Demo Industry Webinar and Demo of Compliance Report Card	
Production Go-Live	Release of Industry Member Compliance Report Card for Equities ONLY	
Production Go-Live	Release of Industry Member Compliance Report Card including Equities and Options	July 20, 2020

### How to Ask a Question during Today's Call

#### For participants using computer audio:

- Click the "Participants" button at the bottom of the app window, then the "Raise Hand" button at the bottom of the participants 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