
Monthly CAT Update

October 26, 2022

Agenda

- CAT NMS Plan, Exemptive Relief and Transaction Interpretive Updates
- Transaction Technical Specifications Updates
- CAIS Reporting Updates
- Compliance Updates
- Upcoming Industry Webinars and Other Updates
- Q&A
- Appendix- Transaction Production Statistics

CAT NMS Plan, Exemptive Relief and Transaction Interpretive Updates

Transaction Interpretive Updates

New FAQs

- ▶ One new Transaction [FAQ](#).
 - FAQ [U31](#) addresses how clearing firms may populate the *accountHolderType* field when reporting an allocation for a correspondent's account.
- ▶ One Transaction [FAQ](#) was updated.
 - FAQ [D10](#) was updated to clarify the reporting requirements for “cash” orders.

Transaction Technical Specifications Updates

2022–23 IM Releases – Scope and Schedule

Release 2.1

Production/Production Mirror
Release – 11/7/2022

CAIS related validations & Statistics

- Validate FDID against CAIS data
- Daily statistics reflecting FDID errors
- Provide a new linkage summary feedback file containing missing or invalid FDIDs

* FDID Errors on Report Cards (See 2023 Release 1)

Release 3

Spec Publication – 7/29/2022
Industry Test Release – 10/3/2022
Production/Production Mirror
Release – 12/5/2022

Schema changes and related validations

- Add new event - **MLOE**
- Enforce requirements to populate *cancelQty*, *multiLegInd* on applicable events
- Change data type for *handlingInstructions* value CASH from Boolean to Price to capture actual monetary value instruction
- Enforce correct values on the *side* field in Leg Details
- Reject invalid values in the *underlying* field on Multi-Leg events
- Add *deskOrderID* field to Order Internal Route events to uniquely identify related events
- Add *priorDeskOrderID* field to Order Internal Route Modified events to uniquely identify related events
- Remove metadata file submission requirement and related file integrity errors

2023 - Release 1

Spec Publication – N/A
Industry Test Release – N/A
Production/Production Mirror
Release – 2/15/2023

Transaction Report Card

- FDID Errors in Transaction Report Cards will be included in January Report Card published on February 15th, 2023
- Report Cards by Process Date

2023 - Release 2

Spec Publication – 12/9/2022
Industry Test Release – 3/13/2023
Production/Production Mirror
Release – 3/27/2023

Onboarding FINRA ADF

- Add new event - MENQS - New Quote Supplement event
- Add new event - MERQS - Quote Route Supplement event
- Add *representativeQuoteInd*, *askAggregatedOrders*, and *bidAggregatedOrders* fields to MENQ event
- Add *destinationType* and *session* to MERQ event
- Change *firmDesignatedID* and *accountHolderType* fields on MENQ event from Required to Conditional

Technical Specification Updates

- ▶ There were no updates to the Industry Member Technical Specifications.
- ▶ Clean and redlined versions of the [Phase 2d Industry Member Reporting Scenarios](#) (v4.10) were published on October 21, 2022.

CAIS Reporting Updates

Industry Member Release Rollout – Pre-Full CAIS Production

Full CAIS Release 1 Industry Test – 1/31/2022 Production – 4/25/2022	Full CAIS Release 2a Industry Test – 3/28/2022 Production – 4/25/2022	Full CAIS Release 2b Industry Test – 4/11/2022 Production – 4/25/2022
Ingestion <ul style="list-style-type: none">• Industry Test Open for Machine-to-Machine File & Data Integrity Validations, Material Inconsistencies, and Feedback• Feedback file contains up to 1,000 Rejections CAIS Reporter Portal <ul style="list-style-type: none">• Manual File Upload• Manual Submission• Submission Feedback• Inconsistencies Feedback• Nightly Inconsistencies Report Full CAIS Certification opened on 2/1/2022	Ingestion <ul style="list-style-type: none">• New DRIVERLICENSE Foreign TID Type• EIN Validation changed to format validation• Feedback file enhanced to include all Rejections feedback CAIS Reporter Portal <ul style="list-style-type: none">• FDID Reconciliation Report updated with Full CAIS information (count of CAT Customers and Version information)	Ingestion <ul style="list-style-type: none">• Remove OTHBKR and CP <i>customerType</i> values for Legal Entity Customer Records• Remove BROKERAGE and ADVISED values for <i>accountType</i>• Remove <i>primeBrokerID</i> and <i>bankDepositoryID</i> fields and add a new <i>DVPCustodianID</i> field

Industry Member Release Rollout – Full CAIS Production

Full CAIS Release 3a Industry Test – 5/25/2022 Production – 6/13/2022	Full CAIS Release 4 Industry Test – 6/26/2022 Production – 7/1/2022	Full CAIS Release 5 Industry Test – 9/19/2022 Production – 10/3/2022	CAIS Report Card Release
Ingestion <ul style="list-style-type: none">• New Authorized Trader Names List on FDID record• Increase <i>lastName</i> field length to 200 characters Reports <ul style="list-style-type: none">• FDID Version Report posted to SFTP weekly, containing active LTID Phase FDIDs not updated to Full CAIS Phase CAIS Reporter Portal <ul style="list-style-type: none">• FDID Version Report available on-demand, containing active LTID Phase FDIDs not updated to Full CAIS Phase	Ingestion <ul style="list-style-type: none">• New OTHGOVT Foreign TID Type Performance Enhancements <ul style="list-style-type: none">• CAIS file processing improvements Minor Enhancements and Bug Fixes	Performance Enhancements <ul style="list-style-type: none">• CAIS file processing improvements Minor Enhancements and Bug Fixes	Report Card <ul style="list-style-type: none">• Full CAIS Compliance begins with the January Report Card published on February 15th, 2023• Compliance Rates distinguished for Correspondent data

Industry Member Release Rollout – Planned Future Enhancements

Industry Test – TBD
Production – TBD

- INACTIVE End Reason
- Automated Transfer Procedure
- Optimization of error feedback

New and Updated CAIS FAQs

- ▶ One new CAIS [FAQ](#):
 - FAQ [Q68](#) addresses the reporting requirements when the Authorized Trader is a government employee of a U.S. state, county or municipality and acting in the capacity of a guardian or conservator for a minor or incapacitated person.
- ▶ Two CAIS [FAQs](#) were updated:
 - FAQ [Q12](#) was updated to describe when the *ItidEndReason* or *roleEndReason* value of 'OTHER' may be used.
 - FAQ [Q67](#) was updated to clarify the reporting requirements for addresses at the Customer level and the FDID level.

Full CAIS Technical Specification Updates

- ▶ There were no updates to the Full CAIS Technical Specifications or Reporting Scenarios document.

Industry Member Timeline Design

Requirement	Date
Production Certification Deadline	July 25, 2022
Interim reporting obligation 1: CAT Submitters Partial Submissions. <ul style="list-style-type: none"> For a single date within the range specified, complete a scheduled partial submission to the Prod Environment in Full CAIS Format. FINRA CAT will begin contacting CAT Submitters on August 1 to schedule their partial submission dates. 	August 15 – September 15, 2022
Interim reporting obligation 2: All Industry Members – Submission of all FDIDs and Customers <ul style="list-style-type: none"> For a single date within the range specified, complete a scheduled submission of the FDID Population with CAT-Reportable activity between June 12, 2022 and September 30, 2022 to the Prod Environment in Full CAIS format. FINRA CAT will begin contacting all Industry Members on October 3 to schedule their specific reporting date. 	October 10 – October 31, 2022
Interim reporting obligation 3: Daily reporting of FDID and Customer Data <ul style="list-style-type: none"> All Industry members must begin daily reporting of FDID records and changes/additions for all CAT-Reportable Activity beginning June 12, 2022 through at least September 30, 2022. Corrections to reported data are not required until Interim Reporting Obligation 4. 	November 7, 2022
Interim reporting obligation 4: All outstanding Rejections and Material Inconsistencies addressed <ul style="list-style-type: none"> All outstanding rejections and Material Inconsistencies for all CAT-reportable activity beginning June 12, 2022 are resolved. 	December 5, 2022
Full CAIS Compliance date (Error correction timeline fully enforced) <ul style="list-style-type: none"> All error repair and material inconsistency resolution deadlines are enforced. 	December 12, 2022

- ▶ An [Announcement](#) was published and the [Timeline](#) was updated. Please see [CAT Alert 2022-01](#) for more information.

CAIS Checkpoint Calls

- ▶ The next [CAIS Industry Testing Checkpoint Call](#) will be today at 4:15 pm ET.
- ▶ The presentations and recordings are available for:
 - [10/19/2022 CAIS Industry Testing Checkpoint Call](#)
 - [10/12/2022 CAIS Industry Testing Checkpoint Call](#)
 - [10/05/2022 CAIS Industry Testing Checkpoint Call](#)
 - [09/28/2022 CAIS Industry Testing Checkpoint Call](#)

Other CAIS Updates

- ▶ The recording and presentation from the [10/18/2022 CAT CAIS Technical Specifications Working Group](#) is available on the CAT website.
- ▶ Updated CAT Alert [2021-02](#) was published on October 6, 2022.
 - Updated the document to conform with the revised Full CAIS Compliance Go-Live date.

Compliance Updates

Industry Member Report Card Updates

- ▶ The September 2022 CAT Industry Member Compliance Report Cards were published on October 15, 2022.
- ▶ The [Industry Member Full CAIS Report Card Webinar](#) will be on November 2, 2022 at 1 pm ET.
- ▶ Compliance Resources:
 - [Industry Member Report Card- Known Issues List](#)
 - [CAIS Compliance Glossary](#)
 - [Transaction Compliance Glossary](#)
 - Previously Recorded and Posted [Report Card Webinars](#)

Upcoming Industry Webinars and Other Updates

Other General Announcements and Reminders

- ▶ The [2022 User Accounts Entitlement Certification Period for CAT Reporting Agents](#) is September 12, 2022 through November 14, 2022
 - Not Applicable to Industry Members
 - During this period, a Certification Representative for each organization must certify that accounts with access to CAT applications, data and tools are valid and users are entitled only to the entitlements (privileges) necessary to perform their current job responsibilities.

Monthly CAT Update Industry Webinars

- ▶ The next [Monthly CAT Update](#) will be held on November 17, 2022 at 9:30 am ET.
- ▶ The recording and presentation from the [September 27, 2022](#) Monthly CAT Update is available.

FINRA CAT Helpdesk

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

Q&A

How to Ask a Question during Today's Call

- **For participants using computer audio:**
 - Click 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.

Appendix

Equities – Rolling Five Day Period

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

September 21, 2022 – October 5, 2022

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	Trade Initial	Trade Adjusted	Overall Error Rate Initial	Overall Error Rate Adjusted
9/21/2022	.1865%	.0098%	.0095%	.0077%	.0075%	.0005%	.0001%	.1534%	.0010%	.0005%	.0004%	.0349%	.0345%	.2165%	.2015%
9/22/2022	.0001%	.0024%	.0021%	.0089%	.0088%	.0004%	.0004%	.0013%	.0008%	.0005%	.0004%	.0446%	.0444%	.0091%	.0087%
9/23/2022	.0208%	.0025%	.0022%	.0089%	.0087%	.0014%	.0003%	.0568%	.0009%	.0004%	.0004%	.0332%	.0320%	.0353%	.0294%
9/26/2022	.0077%	.0025%	.0023%	.0093%	.0091%	.0045%	.0000%	.0038%	.0011%	.0004%	.0004%	.0544%	.0513%	.0177%	.0167%
9/27/2022	.0925%	.0022%	.0020%	.0086%	.0085%	.0008%	.0007%	.0019%	.0015%	.0004%	.0003%	.0419%	.0415%	.1012%	.1009%
9/28/2022	.0001%	.0021%	.0018%	.0109%	.0107%	.0002%	.0001%	.0014%	.0009%	.0004%	.0004%	.0355%	.0293%	.0103%	.0098%
9/29/2022	.0106%	.0019%	.0017%	.0100%	.0099%	.0119%	.0001%	.1005%	.0007%	.0315%	.0003%	.0361%	.0351%	.0344%	.0195%
9/30/2022	4.3081%	.0020%	.0018%	.0096%	.0094%	.0018%	.0001%	7.5997%	.0009%	.0004%	.0004%	.0571%	.0543%	5.0383%	4.3158%
10/3/2022	.0584%	.0043%	.0040%	.0108%	.0106%	3.1650%	.0004%	3.3894%	.0107%	6.1744%	.0011%	.0594%	.0579%	1.5468%	.0712%
10/4/2022	.0104%	.0032%	.0029%	.0103%	.0099%	3.0431%	.0000%	3.1793%	.0072%	6.2245%	.0005%	.0652%	.0649%	1.4777%	.0212%
10/5/2022	.0001%	.0020%	.0017%	.0107%	.0104%	.0001%	.0000%	.0014%	.0008%	.0006%	.0004%	.0550%	.0547%	.0100%	.0094%

Equities – Rolling Five Day Period

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

October 6, 2022 – October 19, 2022

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	Trade Initial	Trade Adjusted	Overall Error Rate Initial	Overall Error Rate Adjusted
10/6/2022	.0000%	.0017%	.0015%	.0099%	.0097%	.0001%	.0000%	.0014%	.0011%	.0007%	.0003%	.0633%	.0585%	.0091%	.0087%
10/7/2022	.0004%	.0024%	.0021%	.0101%	.0099%	.0001%	.0000%	.0022%	.0017%	.0008%	.0003%	.0804%	.0660%	.0103%	.0098%
10/10/2022	.5497%	.0407%	.0405%	.0090%	.0085%	.0001%	.0000%	.9498%	.0019%	.0007%	.0003%	.0786%	.0565%	.6812%	.5937%
10/11/2022	.0178%	.0024%	.0021%	.0092%	.0091%	.0233%	.0207%	.0443%	.0022%	.0010%	.0005%	.0762%	.0708%	.0334%	.0287%
10/12/2022	.0484%	.0018%	.0016%	.0102%	.0101%	.0222%	.0000%	.0839%	.0056%	.0007%	.0004%	.0662%	.0605%	.0676%	.0578%
10/13/2022	.1393%	.0021%	.0019%	.0102%	.0101%	.0221%	.0000%	.2116%	.0009%	.0007%	.0003%	.0649%	.0592%	.1704%	.1487%
10/14/2022	.0074%	.0041%	.0035%	.0145%	.0145%	.0008%	.0008%	.0779%	.0035%	.0006%	.0004%	.0614%	.0551%	.0293%	.0218%
10/17/2022	.0043%	.0036%	.0032%	.0126%	.0125%	.0007%	.0005%	.0187%	.0012%	.0032%	.0006%	.0594%	.0519%	.0193%	.0167%
10/18/2022	.0102%	.0022%	.0019%	.0108%	.0107%	.0002%	.0000%	.0026%	.0023%	.0004%	.0004%	.0646%	.0527%	.0206%	.0202%
10/19/2022	.0083%	.0022%	.0019%	.0132%	.0132%	.0005%	.0005%	.0935%	.0116%	.0004%	.0004%	.0655%	.0588%	.0292%	.0209%

Options – Rolling Five Day Period

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

September 21, 2022 – October 5, 2022

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	Trade Initial	Trade Adjusted	Overall Error Rate Initial	Overall Error Rate Adjusted
9/21/2022	.0019%	.0046%	.0036%	.1038%	.1031%	.8198%	.0103%	.1236%	.1088%	.0097%	.0047%	.1125%	.1125%	.0881%	.0820%
9/22/2022	.0006%	.0045%	.0041%	.0020%	.0019%	1.8018%	.0059%	.0277%	.0074%	.0108%	.0035%	.1443%	.1323%	.0168%	.0072%
9/23/2022	.0001%	.0051%	.0047%	.0009%	.0008%	1.0061%	.0058%	.0283%	.0087%	.0124%	.0037%	.1950%	.1950%	.0138%	.0065%
9/26/2022	.0007%	.0041%	.0038%	.0007%	.0006%	1.5371%	.0050%	.0568%	.0374%	.0096%	.0044%	.2139%	.2139%	.0135%	.0064%
9/27/2022	.0483%	.0039%	.0036%	.0008%	.0007%	.7720%	.0033%	.6751%	.0363%	.0086%	.0044%	.1732%	.1732%	.0602%	.0537%
9/28/2022	5.1875%	.0049%	.0046%	6.8185%	6.8184%	.6656%	.0054%	.0534%	.0426%	.0050%	.0003%	.1344%	.1344%	5.1970%	5.1926%
9/29/2022	.0000%	.0040%	.0037%	.0007%	.0007%	.5806%	.0035%	.0159%	.0049%	.0056%	.0003%	.2329%	.1956%	.0084%	.0043%
9/30/2022	2.5319%	.0048%	.0038%	.0007%	.0006%	.7092%	.0048%	.3461%	.0064%	.0044%	.0027%	.1057%	.0969%	2.5419%	2.5368%
10/3/2022	.0062%	.0046%	.0038%	.0005%	.0004%	1.6450%	.0047%	.0325%	.0053%	.0073%	.0005%	.2638%	.2334%	.0182%	.0105%
10/4/2022	.0085%	.0045%	.0039%	.0006%	.0005%	1.3398%	.0042%	.0227%	.0038%	.0075%	.0020%	.1779%	.1077%	.0209%	.0134%
10/5/2022	.0000%	.0044%	.0040%	.0004%	.0004%	1.7166%	.0030%	.0223%	.0065%	.0037%	.0008%	.0000%	.0000%	.0121%	.0046%

Options – Rolling Five Day Period

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

October 6, 2022 – October 19, 2022

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10/6/2022	.0059%	.0039%	.0036%	.0004%	.0004%	1.6791%	.0032%	.0209%	.0036%	.0055%	.0004%	.0159%	.0159%	.0179%	.0099%
10/7/2022	.0137%	.0046%	.0042%	.0121%	.0007%	2.1424%	.0041%	.0196%	.0071%	.0330%	.0015%	.2957%	.2528%	.0456%	.0189%
10/10/2022	.0114%	.0074%	.0036%	.0005%	.0005%	.9690%	.0037%	1.6684%	.0035%	.0091%	.0038%	.1598%	.1543%	.0309%	.0165%
10/11/2022	.0013%	.0040%	.0033%	.0022%	.0021%	1.4776%	.0035%	.0134%	.0041%	.0065%	.0039%	.3800%	.3264%	.0142%	.0073%
10/12/2022	.0047%	.0037%	.0031%	.0006%	.0005%	1.3828%	.0033%	.0073%	.0066%	.0202%	.0005%	.1397%	.1016%	.0196%	.0083%
10/13/2022	.0661%	.0046%	.0035%	.0006%	.0006%	1.5979%	.0051%	.4626%	.0046%	.0302%	.0003%	.1222%	.1222%	.0890%	.0702%
10/14/2022	.0002%	.0042%	.0038%	.0005%	.0005%	.7032%	.0042%	.0437%	.0067%	.0315%	.0004%	.0383%	.0383%	.0169%	.0045%
10/17/2022	.0006%	.0037%	.0032%	.0008%	.0008%	1.8425%	.0042%	.0673%	.0052%	.0050%	.0003%	.3245%	.3029%	.0135%	.0044%
10/18/2022	.0298%	.0038%	.0035%	.0030%	.0030%	1.7062%	.0071%	.0194%	.0048%	.0041%	.0003%	.3296%	.2794%	.0435%	.0355%
10/19/2022	.0591%	.0120%	.0033%	.0018%	.0017%	1.4049%	.0303%	.0170%	.0050%	.0034%	.0003%	.1145%	.1060%	.0792%	.0638%

Equities – Industry Aggregate Trade Date Statistics

September 21, 2022 – October 5, 2022

Trade Date	Processed	Accepted	Late	Overall Errors Count
2022-09-21	46,112,168,556	46,107,649,588	85,996,838	92,928,623
2022-09-22	43,366,928,824	43,365,892,533	53,723	3,763,114
2022-09-23	46,874,784,966	46,870,059,600	9,813,021	13,790,042
2022-09-26	52,969,992,320	52,968,633,054	4,117,312	8,830,652
2022-09-27	52,541,862,153	52,540,673,414	48,652,596	52,955,321
2022-09-28	44,400,546,074	44,399,584,792	68,817	4,303,200
2022-09-29	49,325,785,151	49,294,411,148	5,218,498	9,579,429
2022-09-30	50,709,673,287	50,696,321,291	2,184,082,605	2,188,384,144
2022-10-03	42,048,090,874	42,046,182,747	24,892,921	29,460,985
2022-10-04	41,651,588,059	41,600,643,415	4,323,557	8,839,651
2022-10-05	41,904,819,962	41,882,042,836	31,803	3,956,729

Equities – Industry Aggregate Trade Date Statistics

October 6, 2022 – October 19, 2022

Trade Date	Processed	Accepted	Late	Overall Errors Count
2022-10-06	45,121,738,928	45,120,909,997	17,363	3,935,828
2022-10-07	43,711,031,512	43,709,978,921	158,418	4,288,178
2022-10-10	43,701,347,111	43,643,149,878	239,911,911	259,459,502
2022-10-11	47,806,309,462	47,803,874,512	8,518,676	12,770,830
2022-10-12	43,918,915,072	43,910,589,865	21,247,716	25,398,005
2022-10-13	58,598,659,599	58,593,438,487	81,652,004	87,111,138
2022-10-14	50,238,935,819	50,206,251,071	3,722,410	9,697,022
2022-10-17	36,596,899,163	36,565,005,094	1,580,548	6,129,223
2022-10-18	41,388,715,915	41,321,806,252	4,239,182	8,353,154
2022-10-19	36,425,495,334	36,392,315,255	3,031,569	7,609,354

Options – Industry Aggregate Trade Date Statistics

September 21, 2022 – October 5, 2022

Trade Date	Processed	Accepted	Late	Overall Errors Count
2022-09-21	7,458,522,718	7,457,338,940	5,800,996	6,108,072
2022-09-22	7,797,887,224	7,795,809,988	165,591	537,949
2022-09-23	7,709,594,958	7,709,203,600	163,551	482,075
2022-09-26	7,786,253,152	7,785,930,753	213,789	478,829
2022-09-27	7,876,629,644	7,876,323,954	3,963,661	4,215,079
2022-09-28	6,527,934,416	6,527,610,582	338,686,115	338,960,264
2022-09-29	7,681,702,049	7,681,392,610	70,165	325,259
2022-09-30	7,833,769,601	7,833,390,692	198,848,980	199,146,593
2022-10-03	7,261,035,605	7,260,695,698	460,227	769,090
2022-10-04	7,412,233,144	7,402,647,942	630,878	994,753
2022-10-05	7,583,669,523	7,583,189,226	2,608	347,149

Options – Industry Aggregate Trade Date Statistics

October 6, 2022 – October 19, 2022

Trade Date	Processed	Accepted	Late	Overall Errors Count
2022-10-06	7,505,621,792	7,505,329,457	446,629	744,528
2022-10-07	7,405,739,393	7,404,825,363	1,014,656	1,401,388
2022-10-10	7,500,654,490	7,500,101,516	857,603	1,237,391
2022-10-11	7,878,451,493	7,878,127,370	100,468	577,334
2022-10-12	7,435,998,705	7,435,719,421	347,055	618,852
2022-10-13	8,367,479,518	8,365,970,044	5,621,742	5,956,807
2022-10-14	7,898,498,490	7,898,159,198	14,579	352,427
2022-10-17	7,472,049,714	7,448,656,248	43,450	327,861
2022-10-18	8,010,785,123	7,981,458,290	2,383,616	2,846,774
2022-10-19	7,563,503,032	7,547,691,288	4,467,417	4,823,712