

# TRADECHO RELEASE 9A NOTES (CDS & PROD)

February 2018



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## Summary

These release notes provide a high-level overview of the functionality available in the CDS environment from 13<sup>th</sup> February 2018, known issues and future functionality to be delivered. These changes will be deployed into the PROD environment on Saturday 3<sup>rd</sup> March 2018.

## Proposed Test Environment Upgrade Dates

The dates below give a guide to functional upgrades to the CDS test environment. Dates are subject to change.

- Technical Go Live – 20th November (production version)
- Release 8 – 5<sup>th</sup> December 2017
- Release 8.1 – 12<sup>th</sup> December 2017 (patch to sprint 8 with critical bug fixes)
- Release 8.2 – 27<sup>th</sup> December 2017 (further patch to sprint 8 with critical bug fixes)
- Release 8.3 – 13th January 2018 (further patch to sprint 8 with critical bug fixes)
- Release 9A – 13<sup>th</sup> February 2018 (targeted for PROD release on 3<sup>rd</sup> March)
- Release 9B – 27<sup>th</sup> February 2018 (targeted for PROD release on 3<sup>rd</sup> March)

## FIX Specification Versions

- Post-Trade - FIX Specification MMT v2.9-A (Note - support for the PTGW has been removed)
  - APA & On Exchange/Off Book Only available on LSE website in the Millennium Exchange Technical Specifications section
  - SRR specification available on the TRADEcho client hub
- Pre-Trade - SI Quote FIX specification v2.9-A – available on LSE website in the Millennium Exchange Technical Specifications section.

<http://www.londonstockexchange.com/products-and-services/technical-library/millennium-exchange-technical-specifications/millennium-exchange-technical-specifications.htm>

## Functionality available:

The table below summarises the functionality available in the current release:

Area	Functionality Available
SI Quoting	<ul style="list-style-type: none"><li>Equity<ul style="list-style-type: none"><li>• Full solution Available</li></ul></li><li>Non-Equity<ul style="list-style-type: none"><li>• Full solution Available</li><li>• Fixed error amending quotes in portal</li></ul></li></ul>
SRR	<ul style="list-style-type: none"><li>• New, Amend, Cancellation</li><li>• FIX submission &amp; CSV Upload</li><li>• Application of Rules</li><li>• View / Amend Rules (4 eye approval)</li><li>• Target APA Preferences (Details on request)</li><li>• Reporting to TRADEcho APA</li><li>• Package Trade reporting</li><li>• Party-Side Group features</li><li>• Reject handling</li><li>• Affiliated Entity Reporting</li><li>• LEI use instead of LSE ID for OTC/SI flow</li><li>• Assisted Reporting</li><li>• Flag Enrichment on non-published reports</li><li>• Non-EEA Entity &amp; Sales-Trader support</li><li>• Enhanced "Reporting Obligation" rule handling</li><li>• Late Cancel &amp; Amend support</li><li>• New CSV Upload and CSV Export functionality according to new formalized CSV Requirements</li><li>• The 3 new package-related fields (PackageID (2489), TotNumTradeReports (748), TradeNumber (2490)) are accepted</li><li>• The TPAC flag will be published when PackageID (2489) is present.</li><li>• All component trades of a package are published on their own merits without reference to other components of the package</li><li>• Tradeweb and BATS support for trade reporting and assisted trade reporting</li><li>• SRR EOD reports via SFTP</li></ul>

Area	Functionality Available
<b>APA</b>	<ul style="list-style-type: none"> <li>• New, cancellation</li> <li>• FIX &amp; CSV Upload</li> <li>• Equity Deferrals</li> <li>• Non-Equity Standard Deferrals</li> <li>• Assisted Reporting</li> <li>• Support for Package Trades</li> <li>• ISIN is now required as a standard</li> <li>• APA system accepts OTC and SI trades without contra firm</li> <li>• APA system answers on Off-book On-Exchange trades</li> <li>• LEI on entering side supported</li> <li>• APA Late Cancel &amp; Amends</li> <li>• Enhanced MiFID II Flag Validation for OTC / SI trades</li> <li>• Decimal places in Quantity increased</li> <li>• Off-Book, On-Exchange Flow supported</li> <li>• Microsecond format now supported</li> <li>• Reporting capacity delay on trade capture now fixed</li> <li>• New CSV Upload and CSV Export functionality according to new formalized CSV Requirements</li> <li>• Pending price support</li> <li>• Negative price support</li> </ul>
<b>On-Exchange / Off-Book</b>	<ul style="list-style-type: none"> <li>• MiFID II logic including flags, validation</li> </ul>
<b>Portal</b>	<ul style="list-style-type: none"> <li>• SRR Dashboard</li> <li>• New SRR User Roles</li> <li>• SRR Search</li> <li>• APA Trade Entry</li> <li>• Ability to set Assisted Report flag if APA only user</li> <li>• Using LEI on entering side</li> <li>• The password encryption now uses SHA-512 and a unique salt per user in order to increase security</li> </ul>
<b>Reference Data</b>	<ul style="list-style-type: none"> <li>• MiFID II Instrument Attributes</li> <li>• Deferral Calendars (Equity &amp; Non-Equity Standard)</li> <li>• LEI Ref Data</li> <li>• Test SI data</li> <li>• Support for all MiFID II asset classes</li> </ul>
<b>Market Data</b>	<ul style="list-style-type: none"> <li>• GTP will publish data from TRADEcho as of 3<sup>rd</sup> January <ul style="list-style-type: none"> <li>○ GTP does publish CDS market data, however, we currently have 2 CDS environments that clients can connect to: <ul style="list-style-type: none"> <li>○ 20 NOV (reflects a market Structure as production go-live on Monday 20 November)</li> <li>○ 3 JAN (reflects a MiFID II market Structure)</li> </ul> </li> </ul> </li> </ul>

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**Area****Functionality Available**

Clients can connect to either of the 2 environments. However, GTP is linked to the 3 JAN CDS environment only. So trades submitted to the 20 NOV CDS environment will not be published by GTP.

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## Supporting Documentation

- Product Guides for SRR, APA, Assisted Reporting and SI Quoting
- FIX Specifications (Post Trade v2.9-A, Pre Trade v2.9-A, Post Trade APA only v2.9-A)
- Portal User Guide (online in portal)
- Portal Admin User Guide (online in portal)
- TRADEcho Deployment Guide
- TRADEcho APA and SRR CSV Specifications v2.9
- TRADEcho Reject Codes v2.9

## Changes in this release (Sprint 9A):

The additional functionality below has been implemented in this release:

- APA End of Day Reports available to external clients
- Adding Symbol (Ticker Local Code) to the Overview window
- SRR Instrument Validation Logic Changes
- Ability to use SI status from FIX in the SRR reporting obligation decision as an override
- WebPortal - Trade Report "View Details" was missing several values, now added
- APA change warning/pop up added
- Currency in TER message (now at end of message)

## Bug Fixes in this release (Sprint 9A):

The table below summarises all bug fixes in this release:

Summary of new functionality	Detail
Webportal; It's impossible to cancel any manual deferred trade via unvalidated late cancel	Added population of originalTransactionId which were missing in some cases and removed unnecessary validation of manual deferral making it impossible to send in cancels of manually deferred trade reports
SRR NullPointerException in rules engine	Added default value for NonMiFIDIIInvestmentFirm in CSV upload for SRR. The CSV spec was updated in 2.8.13
On Exchange trades are incorrectly validated in APA in case of amend via SRR	Extended list of ESMA publishable fields to include NLIQ, OILQ and PRIC which allows amendments to trade reports based on flag-changes
It's possible to submit trade with Settldate prior to Trading date on non-equity	SettlementDate should be validated if specified, for both non-equity and equities
Webportal; Some pre-release rejects are counted as successfully performed on Trade Reports>Search Across Members	Changed so that batch release only will process deferred trade reports
Webportal; SRR Reject Text column is missed on SRR>Trade Reports>Search page	Removed column-definitions for REJECTREASON and REJECTREASONCODE from SRRREJECTEDTRS table. Added column-definition SRRREJECTTEXT to tables SRTRADEREPORTS & SRRREJECTEDTRS.
Exceptions with no info observed in TRQ instances	Added validation for manual deferral datetime to be populated when the publication action is manual deferral
APA Submission of trade with PendingPrice flag and empty Price on Non-Equity instrument causes NullPointerException.	Properly check for null values in price
Wrong counters for SRR trades observed in WebPortal	Updated how 'Not sent to APA' is counted
System send RTF messages without AMND Flag after amend of pre-released deferral trade.	Set the ESMA flag for amend on release of amended deferred trade report.
It's impossible to Amend OTF MDMS EQ trade via WebPortal	Removed validation preventing amend/cancel of OTF equity reports
Not all possible values for VenueType are specified in documentation	Specification updated with new enumeration

It's impossible to perform late cancellation or amend on unpublished trades via SRR	Revert to natural ordering if timestamps are equal, to get the last state a trade report Fixed population of srrReceivedTime when handling APA events
An unexpected internal server error on AR message	Transacttime for validated late cancel should not be mandatory
It's impossible to perform late cancellation or amendment on affiliated trade report	Correct lookup of validated affiliated late cancels/amends for SRR and APA
Discrepancy between SRR EOD report and trades visible in the portal	Corrected selection of which trade reports are added to the report
Target APA required when amending MTF/OTF Cross trade over FIX	Moved TargetAPA validation to only validate submit, since TargetAPA is not amendable
Unvalidated late cancellation gets the same TradeID as the original	Changed so that unvalidated late cancel generates new TradeID instead of using the old one
Edit Reference Price in "Validations" does not display currency	Added currency to Edit Reference Price in Validations view.
No Rejection message/alert when entering Quotes	Added FxRate validation for quoting
Inconsistencies in SRR when Amend is rejected in APA	Rewrote SRR flows and added new status variable to track APA Request status
SRR has no ACCEPTED APA_STATUS	Added "Accepted" state to APA_Status to distinguish between trade reports not sent to an APA and trades sent to an APA but not published
SRR does not remove published trades from deferral store	Added reconciliation process at startup of SRR, which removes historic published trades (if any).
Query yesterday's quotes is slow	Optimized queries for quote and trade report stats, as well as end of day report
Wrong FIX field used to detect status of TR in BATS	Changed the status check to use FIX field TradeReportType instead of TrdType
Missing ApaRejectCode when using Flag Enrichment with Tradeweb	Set ApaRejectCode to SrrAPAError when using Flag Enrichment with Tradeweb to match other rejects from external APA
APA reject information not cleared on subsequent successful operation	SRR now clears APA reject code and text every time an operation is successful to ensure invalid reject information doesn't stay

## Known Issues:

Known issues with the current release (9A) that will be addressed in a future release:

Detail
Rejected cancel in APA leads to inconsistencies. If a TR in SRR+APA is cancelled through SRR, but APA rejects the cancel, the SRR still sets status to cancelled and no further operations can be done in the TR in SRR even though it still exists in APA.
Unable to amend published report to be deferred. Currently the change is ignored on TW's side, unclear if due to bad conversion in GW or not supported by TW. If not supported by TW, add validation to reject it.
Wrong fields amendable/sent to APA from SRR, such as: - Instrument identification code type - Instrument identification code, note: cannot be amended - Notation of the quantity in measurement unit (Unit of Measure) - Emission Allowance Type - Transaction to be cleared (Intend to Clear)
SRR Amend of FlagEnrichment doesn't work. Flag Enrichment is not amendable, causing the amended report to have FlagEnrichment=false (the default value). Thus the decision will be that the report should not be sent to APA, and thus the already sent FlagEnrichment report will be canceled.
SRR problems with late amend of APA reports from before upgrade to 2.9



## Future Functionality:

The below summarises some of the major pieces of future functionality planned:

- Enhanced LEI–ISIN SI Reference Data
- Enhanced Assisted Reporting views
- Enhanced Reporting and more available fields in reports
- Support for Supplementary Deferrals
- Instrument validation logic change on force publish to TRADEcho APA
- Global MIC support
- Enhanced Package Trade support
  - The deferral logic and publication scheduling of components is not based on other components in the package
  - The TradeNumber (2490) of a component is not checked for duplication
  - The number of components sent is not validated against TotNumTradeReports (748)