



Transaction Reporting IT SolutionsBest Practices & Market Survey

September 2020

Summary

- Addressing the challenges of transaction reporting
- Benchmark highlights
- Our value proposition
- **About Ailancy**



Why transaction reporting has become such a challenge



Ever increasing complexity

▶ Increasing scope of products and activities to be reported: securities, derivatives, securities financing transactions... The scope and volume of data to be reported are increasing proportionally

▶ MiFID1: 24 fields MiFID2: 65 fields MiFID review: ? ▶ EMIR: 85 fields EMIR rewr.: 129 fields EMIR refit: ?

▶ SFTR: 155 fields SFTR2: ?

- ▶ Increasing diversity of data to be reported (F/O, clients, legal, collateral...) that implies sourcing the relevant data in multiple upstream applications or databases
- Increasing complex eligibility rules which requires to cross check multiple reference data



Ensuring compliance over time

- The most frequent reporting errors come from decaying reporting mecahnisms over time...
 - o Missing reportings following the update of a reporting mechanism component
 - o Data quality erosion due to out of sync data, change in reference data rules
 - o New business cases that were not foreseen in the original reporting scenarios or in hard-coded eligibility rules
- ... or incorrect rules interpretation or errors from the onset (ex mapping rules,)



Stringent regulators with zero default requirement

- Selected recent FCA fines
 - ▶ Tier 1 US bank (MiFID reporting): £ 34 million (2019)
 - ▶ Tier 1 US bank (EMIR reporting): £ 34 million (2017)

- ▶ Tier 1 Swiss bank (MiFID reporting): £ 29 million (2019)
- ▶ Tier 1 US bank (MiFID reporting): £ 13 million (2015)







Complex data processing

A regulatory framework...



... to be translated into data processing





Transaction reportings involve setting up and maintaing complex data processing to achieve a reliable and robust mechanism

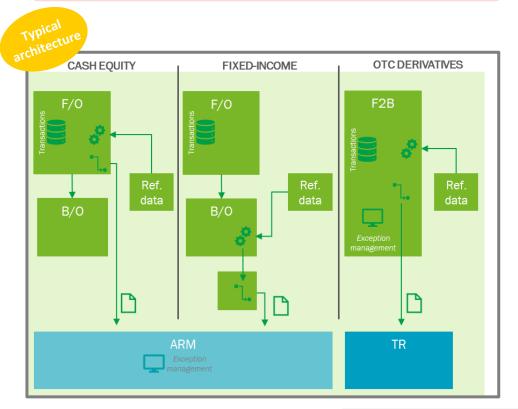


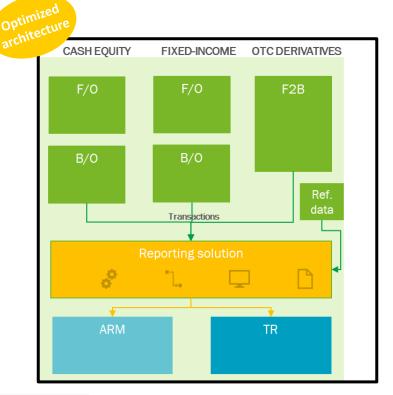


Inefficient duplication of reporting

In a non optimized reporting architecture, distinct reporting mechanisms coexist replicating the existing silos. Additional business lines could include: ETD, securities lending, repo, commodities...

A single reporting solution acts as an efficient interface between the firm systems and the ARM/TR





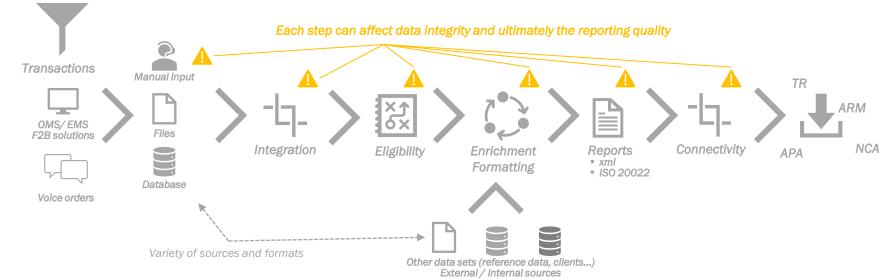




Main challenges for transaction reporting

Each step of the reporting process is facing specific challenges that can affect the overall reporting quality



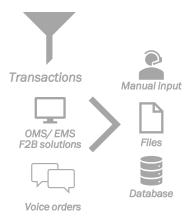


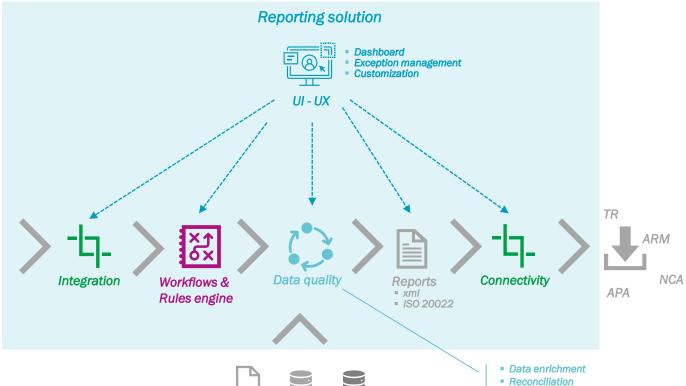


How an efficient reporting solution can help

An integrated reporting solution should cover each major step







Other data sets (reference data, clients...)
External / internal sources



Audit trail

Data lineage



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Vendors interviewed

Scope

- Ailancy interviewed eleven vendors for this study
- Demos were also organized to get first-hand look and feel of the solutions and their main features
- Main coverage: European markets and specifically: MiFID2, EMIR, SFTR, (Finfrag, Remit)
- Out of scope: TR, ARM, APA
 - AQMetrics, Bloomberg, TRAX, and Unavista have an ARM license | Bloomberg and TRAX have an APA license
 - Unavista is a Trade Repository for EMIR and SFTR



CME Group has announced that it will wind down its Abide Financial and NEX Regulatory Reporting (NRR) businesses by 30 November 2020



BearingPoint_®



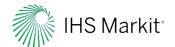


























Presentation

Methodology

- The benchmark was conducted by assessing five key areas
- In addition to these five key areas, the interviews allowed to understand the pricing structure and market dynamics of the various vendors



Regulatory coverage

- Regulations covered
- Expertise in regulation
- Follow-up of regulatory changes





- Data enrichment
- Reconciliation, exhaustivity checks
- Analytics (KPI, AI ...)

UX - UI



- User-friendly solution
- Dashboard
- **Exception management**

Rules engine & Workflows



- Eligbility rules
- Customization of certain rules or workflows



Integration & Connectivity

- Aggregation of multiple sources
- (Native) integration with upstream tools
- Connectivity to TR



Presentation



Each key area is detailed on a single page



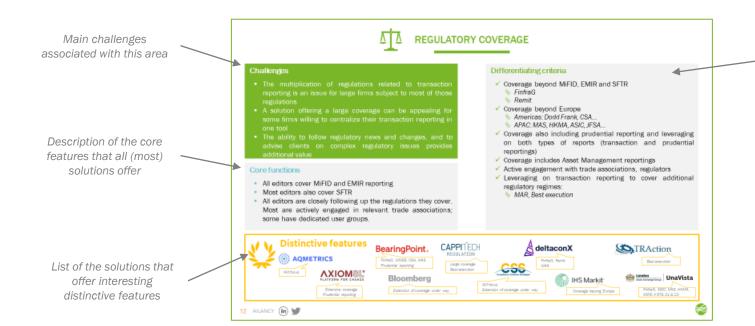


& workflows









Additional features that are not standard accross solutions and bring added-value



Challenges

- The multiplication of regulations related to transaction reporting is an issue for large firms subject to most of those regulations
- A solution offering a large coverage can be appealing for some firms willing to centralize their transaction reporting in one tool
- The ability to follow regulatory news and changes, and to advise clients on complex regulatory issues provides additional value

Core functions

- All editors cover MiFID and EMIR reporting
- Most editors also cover SFTR
- All editors are closely following up the regulations they cover. Most are actively engaged in relevant trade associations; some have dedicated user groups.

Differentiating criteria

- Coverage beyond MiFID, EMIR and SFTR
 - ♥ FinfraG
 - Nemit 8
- ✓ Coverage beyond Europe
 - Americas: Dodd Frank, CSA...
 - 🦴 APAC: MAS, HKMA, ASIC, JFSA...
- Coverage also including prudential reporting and leveraging on both types of reports (transaction and prudential reportings)
- Coverage includes Asset Management reportings
- Active engagement with trade associations, regulators
- Leveraging on transaction reporting to cover additional regulatory regimes:
 - MAR, Best execution







FinfraG, MMSR, CSA, MAS Prudential reporting

Bloomberg

Extension of coverage under way



Large coverage Best execution



AM focus Extension of coverage under way











MiFID II RTS 21 & 23





RULES ENGINE & WORKFLOWS

Challenges

- Efficient eligibility rules to report relevant transactions
- Regarding rules engine and workflows, some solutions offer a great level of customization, configurable by the client or with the vendor. Depending on its needs and requirements, unnecessary feature making the solution too complex to use and administer.

Core functions

- Eligibility rules
- Rules engine
- Workflows

Differentiating criteria

- ✓ Highly configurable solution vs standardized turnkey solution
- ✓ Rules engine: flexibility at the discretion of client (eg data) mapping, automatic feeding of fields based on specific rules...)
- ✓ Workflows: possible customization by the client or by the vendor during onboarding or afterwards





Configurable workflows

























Rules engine / workflows configured by the vendor







Challenges

- Send complete and accurate reports to minimize exception management and comply with the reporting regimes
- When possible flag the transactions likely to be rejected
- Provide reconciliation with source data / reported data

Core functions

- Data enrichment
- Pre-validation of the data to be reported
- Reconciliation



Differentiating criteria

- ✓ Data enrichment beyond static data filled and maintained by clients
 - Connection to GLEIF, FIRDS data bases
 - Possibility to connect to data vendors
- ✓ Additional controls on top of replicating TR/ARM rules
 - Ability to configure validation parameters
 - Statistical analysis / Al to detect anomalies beforehand
- ✓ Audit trail / Data lineage
- Reconciliation
 - With source data
 - With TR/ARM data
 - With counterparties prior reporting
- Elaborated data model
- Analytics (production of KPI, AI...)
- Peer comparison

Additional tools used for quality chek

- In addition to the solutions surveyed in this document, some editors offer complementary tools to monitor data quality
 - RegTek: now part of Bloomberg
 - Control Now
- Those tools offer interesting features for firms willing to get deeper into their reporting mechanism assessment









INTEGRATION & CONNECTIVITY

Challenges

- Smooth integration of transaction data into the solution
- Connections to TR and ARM to send reports
- Most vendors already have connectivity with major TR and can integrate data from different sources
- On-premise vs Cloud based (SaaS) solutions : clear trend for SaaS solutions

Differentiating criteria

- ✓ Native integration with some upstream solutions (PMS/OMS/EMS/F2B solutions)
- ✓ Large coverage of TR
- Possibility to use bespoke file formats
- On-premise implementation possible

Core functions

- Input using proprietary file formats via SFTP
- Connection to databases
- Connections to TR







All vendors offer SaaS implementation. Very few still offer on-premise implementation as well.











Cloud (SaaS) & on-premise

AXIOMSL'

BearingPoint.

CSS



Distinctive features



Bloomberg

Largest choice of TR

Integration with Bloomberg tool (AIM/TOM)



Fully automated with Simcorp



Fully integrated to Simcorp (Dimension) and Finastra (Summit, Kondor, Opics)







Challenges

- Most solutions offer modern intuitive UI
- widgets and directly drilldown into specific dataset
- Possibility to correct data directly from the solution

Core functions

- Dashboard
- **Exception management**

Differentiating criteria

- ✓ Ability to correct data
 - 4 eyes validation
- ✓ Possibility to obfuscate certain data



Best in class













Modern UI









SUMMARY

Vendors	REGULATORY COVERAGE	WORKFLOWS & RULES ENGINE	DATA QUALITY	INTEGRATION & CONNECTIVITY	UX - UI
AQMETRICS					
AXIOMS LO PLATFORM FOR CHANGE					
BearingPoint _®					
Bloomberg					
CAPPITECH REGULATION					
Compliance Solutions Strategies					
deltaconX					
IHS Markit					
TRAction					
TRAX°					
London Stock Exchange Group UnaVista					

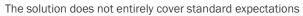








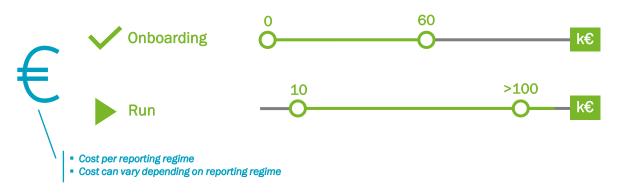






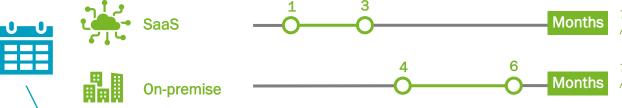


COST & ONBOARDING



Typical range for onboarding costs Costs depend on complexity

Typical range for a yearly licence Most vendors have a cap on number of transactions reported and apply a degressive fee above this cap



Typical timeframe

Actual timeframe depends on complexity of the project

Typical timeframe

Actual timeframe depends on complexity of the project

- Implementation tmeframe in months for each reporting regime
- Projects typically include a discovery planning phase before the implementation



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Our value proposition



Vendor selection – RFI / RFP

Definition of a short list, drafting of RFI-RFP, ranking methodology, recommendation



SwissLife









Implementation of new reportings

Regulatory analysis, data sourcing, reporting mechanism definition, UAT, implementation of monitoring and control system





caceis

INVESTOR SERVICES









Audit / Optimization

Mechanism audit (systems, control, organization), completeness control, data quality control, reporting mechanism optimization















Remediation plan

Root cause analysis, complete screening of the reporting mechanism (data lineage), definition of corrective actions







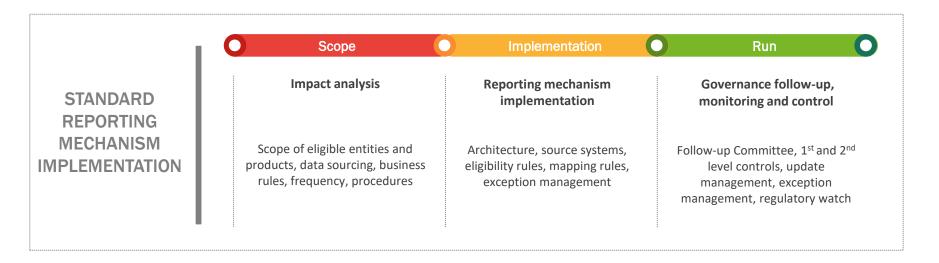






A structured approach to implement and follow-up transaction reportings (1/2)

Transaction reporting should be implemented as a robust mechanism ensuring quality and consistency over time



Long term view

Implementing a reporting infrastructure is not the end of the journey An efficient reporting mechanism should ensure reporting quality and robustness over time





A structured approach to implement and follow-up transaction reportings (2/2)

Once the reporting mechanism in place, a review of the organization and of the controls is necessary to prevent quality to decay over time

STANDARD OUALITY INSURANCE APPROACH FOR REPORTING **MECHANISM IN PRODUCTION**

COMPLETENESS Ensure that, over a defined period, all the eligible transactions were reported Implementation of reconciliation processes

QUALITY Ensure that the reported data are accurate on the basis of the data collected and the regulatory requirements

Check a relevant sample of transactions (UAT approach)

MECHANISM

Ensure that the whole mechanism (systems, controls, organisation) implemented delivers a robust reporting in line with reguatory requirements over time

Audit / Risk matrix approach

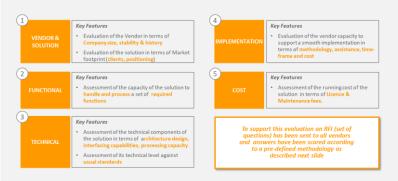
Key takeaway Make sure that the reporting mechanism in place guarantees a reliable reporting adressing the regulators' requirements

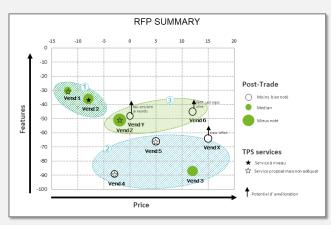


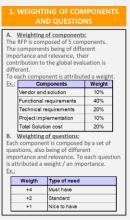


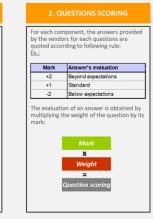
A structured approach to manage RFI / RFP processes

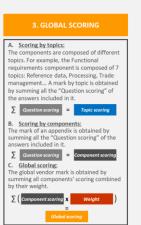
- ▶ The vendor in charge of your reporting is a key element of your reporting mechanism
- Selecting the best vendor according to your needs and budget requires an efficient methodology













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Ailancy: an independent consulting firm dedicated to financial services





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