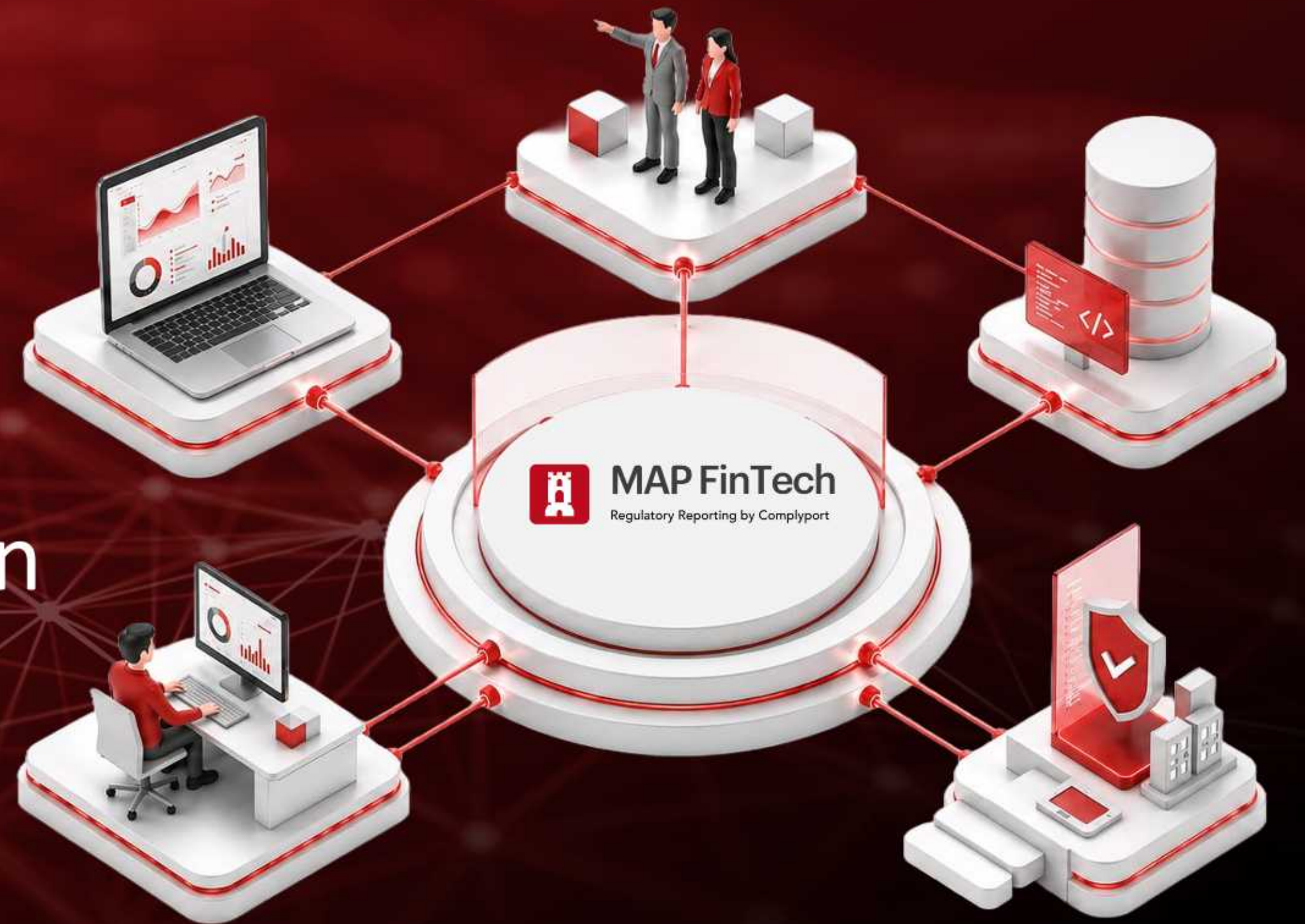


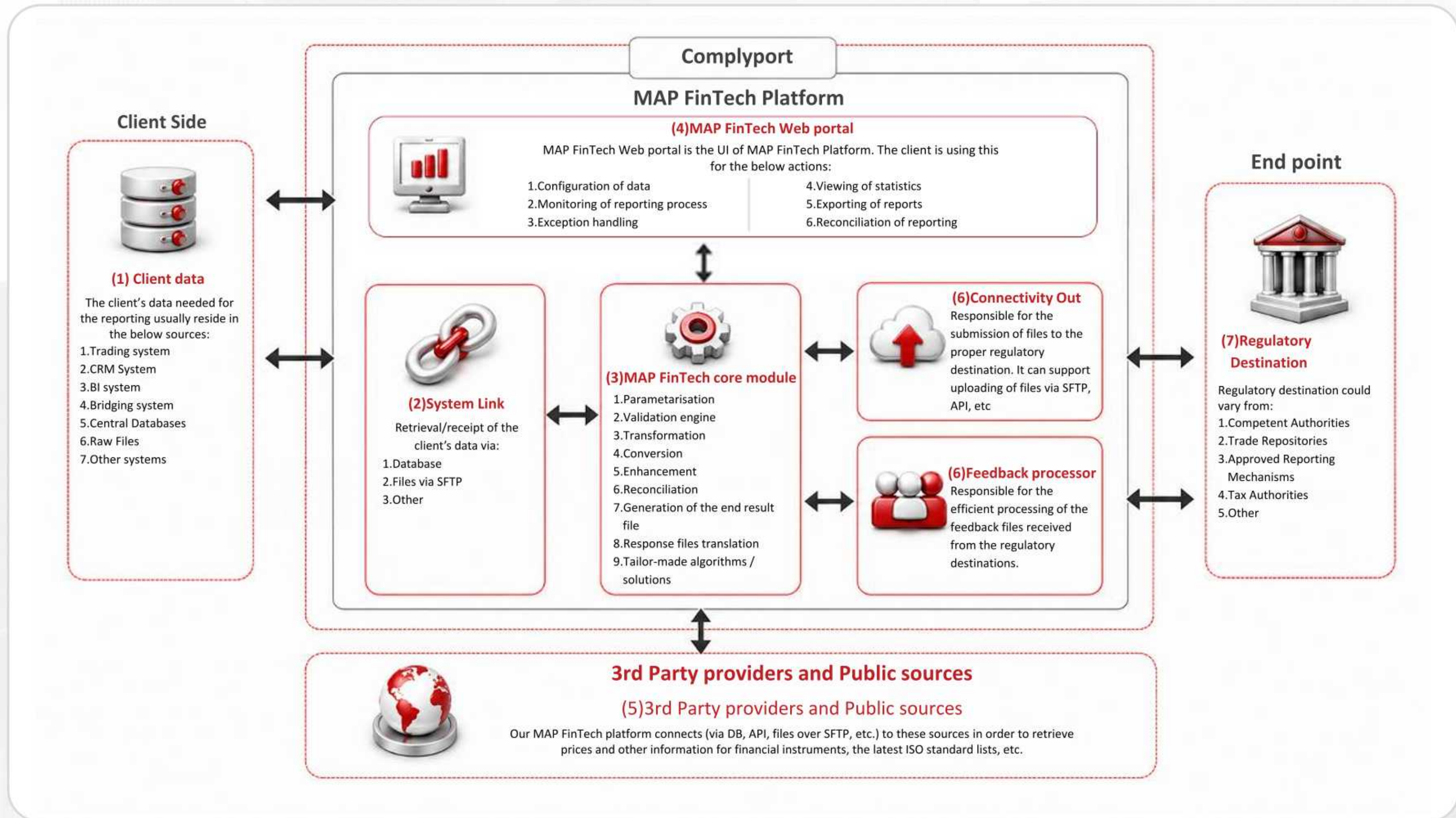


Complyport
ComplyMAP Group

MAP FinTech Platform Flow Diagram and Description



MAP FinTech Platform – Flow Diagram and Description



MAP FinTech Platform – Flow Diagram and Description

MAP FinTech Platform – Diagram Description

Developed in-house, our MAP FinTech platform empowers the user with the following features:

- Complete control of the configuration, management, and monitoring of the entire reporting process.
- Performance of conversions, enhancements, and re-formatting of the collected data.
- Automation of complex workflow processes, allowing the end user to review results and ensure accuracy along the complete cycle.
- Adaptability to changes across institutions, geographies and jurisdictions without having to re-engineer systems and, therefore, reducing implementation times.
- Transparent, manageable, scalable, customisable, and fully supported by RegTech experts.
- UAT environment for carrying out the necessary tests before the client starts reporting.
- Hosted on Amazon Web Services (AWS) and available as a GDPR-compliant Software as a Services (SaaS) solution.
- Provisions for high availability of services and disaster recovery.
- Outstanding uptime service record.

MAP FinTech Platform – Flow Diagram and Description



(1) Client data:

The client is the contracted party and the one with the reporting obligation. The client might have in place several trading and other types of systems, several servers, several trading models, etc. Complyport will establish an open channel of communication with the client to either retrieve or receive the reportable information/data in an automated way.



(2) System Link:

This module is an extension of the MAP FinTech platform providing the flexibility to connect with any sources available and facilitating the daily automated extraction or reception of client's data from various sources (e.g. databases, files over SFTP, and other).

Some of the checks applied by this module are the following:

- i.Connectivity checks i.e. database connection issues on data sourcing
- ii.File/database structure/schema checks
- iii.Content of file/database checks – i.e. existence of data while sourcing

MAP FinTech Platform – Flow Diagram and Description



(3) MAP FinTech Core Module:

This is the MAP FinTech platform's core module, where most of the processing, validations, transformations, enhancements, mappings and other checks take place, as well as the communication with the rest of the modules for a smooth reporting process. This module is also responsible for the generation of the end-result files and the processing of the feedback files.

Some of the checks performed by the MAP FinTech validation engine are:

Description	EMIR/ UKEMIR	ASIC	MAS	CSA	SFTR	MiFIR	BEM	MAR	CRS/ FATCA
Formatting validation of fields e.g. Fields type and length while sourcing data or while entering data in the MAP FinTech portal.									
Conditional validation rules e.g. Check for mandatory fields and field dependencies while sourcing data or while entering data in the MAP FinTech portal.									
Filtering validations to report only reportable transactions e.g. Filter test accounts.									
Validations on configured/portal data e.g. Missing configuration in the MAP FinTech portal data.								N/A	
Duplicate transactions and wrong sequence protection validations e.g. Transactions that have already been reported.									
Validations against public sources e.g. ISO standard and financial instruments lists.							N/A	N/A	N/A
File and schema validations e.g. For XML files.							N/A	N/A	

*N/A: This type of validation is not applicable to this product

MAP FinTech Platform – Flow Diagram and Description

Further to the above, the MAP FinTech core module runs several algorithms which have to do with:

Algorithms Category	Algorithms Description
Reporting flow-related	This set of algorithms covers different reporting styles based on different trading setups and trading systems. It is a suite of custom-made pieces of code that are used to accurately depict the company's side in transaction reporting. Also, these algorithms fulfill the company's specific needs. Some of them are taking care of delegation of reporting, trading setup like market maker/back-to-back/ hedging, trading actions like modifications/partial terminations/hedging, reporting methods like transaction/position reporting, and others.
Data Enhancement	Apart from efficiency, such algorithms aim to keep to the minimum the raw data requested from the client to perform the reporting, thus removing a considerable burden from its shoulders. Some of them are related to the automatic generation of CFI ISO standard fields, Unique National ID fields, Valuation and Collateral information, etc.
TR and service provider migration	These streamline the procedure for the migration of a client from an old TR/Service provider to a new TR/Service provider.
Reconciliation	These compare the data received/extracted from the client-side vs the data reported by the reporting system to the Regulatory Destinations and present the results in a meaningful way.

MAP FinTech Platform – Flow Diagram and Description

(4) MAP FinTech Web Portal:

This is a state-of-the-art web-based Portal, designed specifically for regulatory technology products and incorporating data protection by design and by default through the implementation of appropriate technical and organisational measures (i.e. encryption) to ensure the security of data including personal data. Via this portal, the users are given the ability to manage, configure and monitor their daily reporting lifecycle; with the ability to do this for more than one company (i.e. group of companies), if applicable. More specifically, some of the actions that could be performed via the MAP FinTech web portal are the following:

- | |
|---|
| i. Configuration of reporting: Configure data per product (EMIR, MIFIR, SFTR, etc.), set up reporting based on trading model and reporting counterparties, schedule daily reporting runs. |
| ii. Monitoring of reporting: Check Reporting progress with meaningful progress bars and the receipt of auto-generated notification emails produced. |
| iii. Exception handling of reporting: Check errors, fix them either through the MAP FinTech portal or from the source, and easily re-submit the affected records. |
| iv. View statistics on reporting: Get an in-depth view of reporting process per product with useful graphs, counters, and tables. |
| v. Exporting of Reports: Export reports for audit and record-keeping purposes, option to receive these reports in your email in a frequent and automatic way. |
| vi. Reconciliation of reporting: Perform regular reconciliations by comparing raw data with actual reported data to ensure the completeness, accuracy, and timeliness of your reporting. |

MAP FinTech Platform – Flow Diagram and Description

(5) 3rd Party Providers & Public

MAP FinTech platform connects to third-party providers and public sources to obtain financial instrument prices and information, as well as the latest ISO standard lists needed for the provided regulatory reporting services.

(6) Connectivity Out:

As soon as the end files are being generated, this module submits the files to the proper regulatory destination depending on the client's regulatory obligations. It can support uploading files via SFTP, API, etc. It applies efficient techniques to handle the traffic and send the files to the proper destinations as per the requirements (e.g. applying delay between file uploads to give time to destination for file consumption, sending data in batches, self-recovering in case of connectivity issues, etc.)

(7) Regulatory Destination:

A regulatory destination could be a National Competent Authority, a Trade Repository, an Approved Reporting Mechanism, a Tax Authority, or any other institution where the client has an obligation to submit its reports. Following the submission of the files, the regulatory destination issues a feedback report.

(8) Feedback Processors:

This module receives the feedback report from the regulatory destination, and after the first processing, it distributes it automatically to the relevant feedback processor based on the type of feedback file, client, regulation, etc. After processing, the result will be presented to the client via the MAP FinTech Web portal.

MAP FinTech Platform – Flow Diagram and Description

Reporting Process Cycle summary

The MAP FinTech platform handles the complete reporting life cycle:

1. The clients data is consolidated from each integrated Client's system to the MAP FinTech platform via the use of the System Link module.
2. The MAP FinTech platform core enriches the data with information already gathered from the MAP FinTech Web Portal and generates the first version of the report.
3. Validations take place to exclude any transactions not subject to reporting and validate the correctness of the reportable transactions. The validation results are shown in the MAP FinTech Web portal for any necessary actions by the client.
4. The validated report is then converted to the format of the targeted regulation (i.e. EMIR, MiFIR, ASIC, SFTR, etc.) and uploaded/routed to the relevant regulatory destination or end point*.
5. Following the regulatory destination's processing of the submitted report, the MAP FinTech platform retrieves the feedback, processes it, and presents it to the end user via the MAP FinTech Web portal. Further to this, the MAP FinTech Web portal enables the end user to identify the cause for rejected transactions, if any, resolve and re-submit them to the regulatory destination.

*In the case of solutions like the BEM, MAR and others, the outcome is not a report that is submitted to a regulatory destination but a detailed analysis presented through the GUI of MAP FinTech Web portal.

Products offered through the MAP FinTech platform

EMIR/UKEMIR Reporting

ASIC Reporting

MAS Reporting

CSA Derivatives Reporting

MIFIR Transaction Reporting

SFTR Reporting

Best Execution Monitoring

Trade Surveillance (MAR)

CRS Reporting

FATCA Reporting



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THANK YOU