



Factsheet
SnapFlux



Market data integration in banking systems - customised, fast and reliable

The integration of market data into risk management systems, for compliance analysis or other back office applications, is the current standard for modern banking processes.

SnapFlux provides a customised, integrated solution for banking systems with market data, sourced from Thomson Reuters, Bloomberg and the European Central Bank.

oraise is continuously expanding the data universe of **SnapFlux**, integrating additional packages from other data vendors. Technology adapters for Avaloq Core, Finnova and SAP are already available. The flexible design of **SnapFlux** offers our customers the ability to integrate, at any time, other proprietary systems and formats within customer projects, for both data sources and applications, on a short-term basis.

SOURCE - Market Data

Whether you receive your market data as a real-time stream, via REST/SOAP web services or from a website, **SnapFlux** integrates the data the way you need, also allowing a mix of different vendors and types of connectivity.

The **SnapFlux** data universe is without limits – market data by the various vendors are standardised to the essentials: prices, quotes, markets and time stamps. Typical use cases include FX spots and yield curves, swap rates and precious metals prices. Also part of the **SnapFlux** data universe are prices of shares, warrants and bonds. Moreover, indices can be automatically resolved to their constituents and also individual val-

ues can be extracted from pages (TR). (See Illustration: Feed and Protocol Handlers and Customer Specific Snapshot Cache)

PROCESS - SnapFlux Infrastructure

The **SnapFlux** infrastructure delivers standardised data. Corrections or derivations of the original data are possible, even before data are delivered. In addition to adjustments of market prices with constant factors (eg. ounce/kg), spreads, interpolations and cross rate calculations, we can also implement complex formulas as well as enable the use of aliases for instrument names. The results can be checked and compared with the original data during the setup.

The frequency of data delivery can be freely selected, with the shortest interval being 10 seconds. Different frequencies in different periods of a day are also configurable.

The central **SnapFlux** web frontend is used to manage the **SnapFlux** infrastructure. A comprehensive roles and rights system ensures the appropriate access levels are set; options and restrictions can be configured. Alternatively, the configuration can be carried out by ASP administrators, customer's administrators or on request by oraise staff. Individual data deliveries can also be configured and customised without administration rights. In addition, the configuration can also be done programmatically via a REST interface. (See Illustration: Scalable Hive of Schedulers, Derived Data Processors and Delivery Agents)

Advantages at a glance:

- Independent of vendor infrastructure
- Software as a Service: **SnapFlux** provides the data via VPN to the adapter, no market data infrastructure needed on the customer side
- Rapid Installation – can be typically performed by the customer
- Redundancy and fail over scenario configurations available
- Easy configuration of data delivery via client accessible web frontend
- Data derivation can be configured by the customer
- Multi-Entity-Setup for business service provider feasible
- Easy provisioning for test systems
- Remote monitoring and operations options

SnapFlux an oraise Software as a Service Solution - integrating market data into banking systems with maximum customer benefit

INTEGRATE - Banking Systems

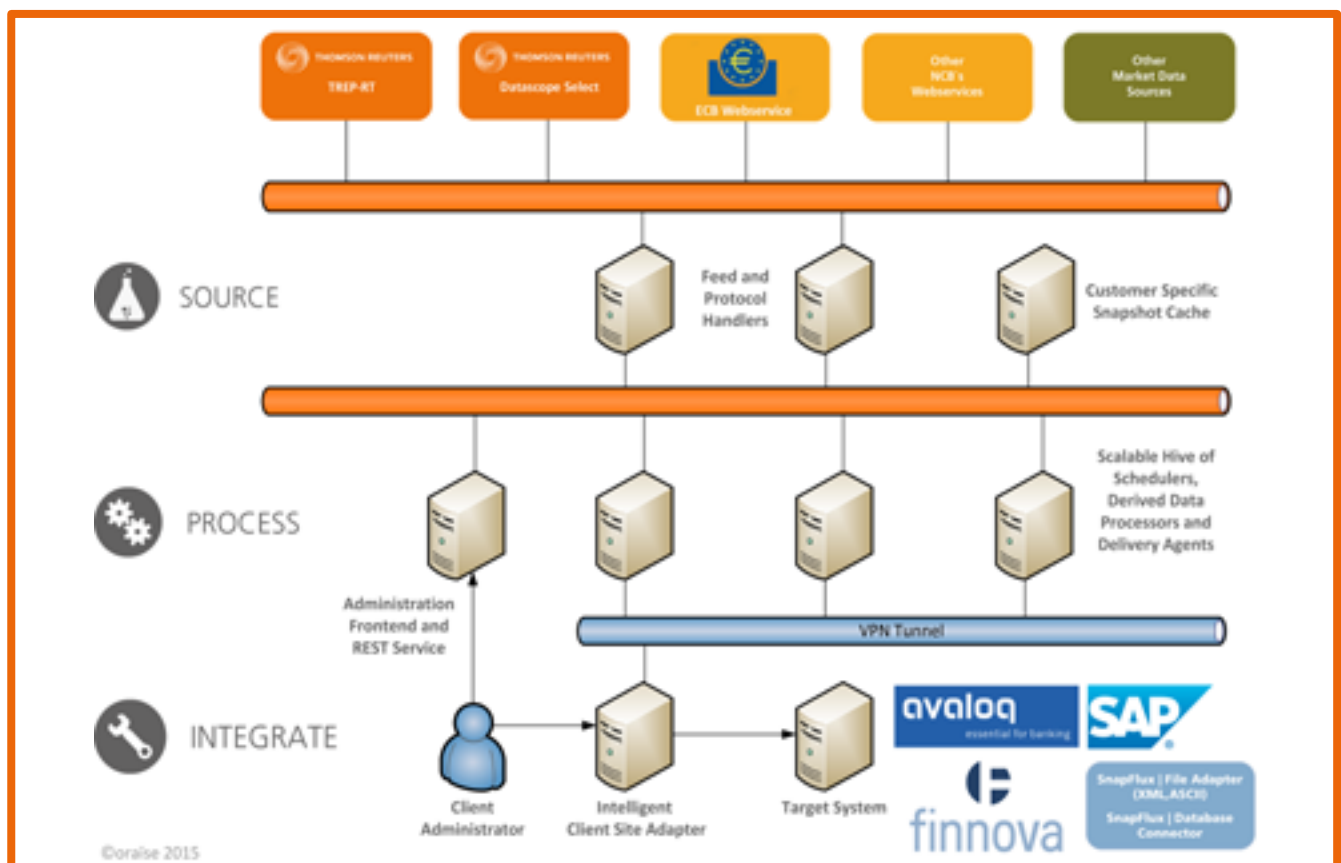
The Integration in banking systems can be implemented in two different ways: the delivery of the data via a VPN tunnel either to the dedicated Intelligent Client Site Adapter that communicates directly with the target system, or to a generic Intelligent Client Site Adapter storing files to be read by the target system. The delivery can be configured in a web frontend or via a REST interface. (See Illustration)

Compliance usage reports accepted by Thomson Reuters and Bloomberg (EMRS) can also be created via the frontend.

Currently SnapFlux offers the following technology adapters:

- SnapFlux for AVALOQ - Thomson Reuters or Bloomberg market data for AVALOQ Core.
- SnapFlux for FINNOVA - Thomson Reuters or Bloomberg market data for the Finnova Banking Software.
- SnapFlux for SAP - Thomson Reuters and ECB market data for SAP
- SnapFlux File Adapter - Generic Text Adapter
- SnapFlux Database Connector - Generic Database Connector

Solution Overview



oraise, all the benefits from a single source.

Our solution is ideally designed to fit with customer needs and provides customised delivery of FX and Money Market related data even in high frequency processes. Customers can choose from various service and operating models depending on:

- number of instruments customers feed via **SnapFlux** into their banking system
- the frequencies of data processing
- system topology i.e. redundancy spanning multiple sites, etc.
- number of deployed instances

Additional advantages are:

- Easy configuration of data delivery via client accessible web frontend
- Software as a Service - Independence from other market data infrastructures
- Immediate parallel use, enables direct comparison with previously-used solutions

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