

Sinara's Market Data Platform (SinaraMDP) is a fully-integrated and flexible system for handling a wide range of financial market data sources. The platform supports asset classes from exchanges worldwide, including equities, indices, commodities, FX, bonds, futures and options, derivatives, etc, and has been successfully deployed at a number of financial institutions and exchanges.

Applications

- Data Dissemination platform for a major global commodities exchange
- Hosted data distribution platform serving multiple clients of a market data vendor
- Data Distribution Platform serving mobile market data applications
- Data distribution system for a leading European online broker
- CFD trading system
- Database-centric applications such as TCA and Portfolio valuation
- Generic data integration and normalisation middleware

Ease of Integration

Ensure rapid data integration with in-house applications or 3rd party packages. Advanced APIs are available for C++, C#, Java, XML, plus most common mobile platforms (iOS, Android, Blackberry). These hide the complexity of the market data feeds from application developers.

In addition to the comprehensive handlers for data feeds from Interactive Data and Dow Jones News, Sinara has specialist feed handlers for capturing data directly from exchanges and trading systems.

The open architecture also allows internal data and locally- calculated/derived data items to be contributed into the platform in a variety of formats (e.g. XML, flat files, csv files), and made available to client applications in real time through a common interface and using a consistent data model.

Benefits

Designed around the latest technology and efficient, cost-effective hardware and software components, the SinaraMDP provides speed, resilience and scalability to market data delivery and management operations.

High Performance - Manage up to 1 million messages per second and over 6 million instruments, including Level 2 quote data and full market depth. Use of multi-threaded software and multi-core processors provide maximum throughput and low latency.

Modular and Flexible - SinaraMDP is modular, flexible and configurable to suit specific data needs, all the way up to Enterprise-scale deployments covering multiple markets and asset classes. Suitable for distribution of data within the organisation or to external clients. High throughput for trading apps or a database-centric version for middle and back office.

Scalable - Deploy an easy and cost-effective solution for just the data and applications you need. Extra features and capacity can be added when required to handle new data (over 250 sources) or increased numbers of user connections.

Customisation - Sinara provides system design, development and integration services to customise SinaraMDP to meet specific client requirements.

System Management – Software tools and displays for managing data flow, connectivity to data sources and client applications, plus system diagnostics.

Conflation – Intelligent Quote Consolidation aggregates individual ticks for a data item and sends out consolidated ticks at a slower rate. The consolidated ticks always contain the latest data. The consolidation intervals can be configured on a per-exchange and per-level basis (e.g. Level 1 tick-by-tick and Level 2 consolidated at 200ms).

SinaraMDP Components

- Feed handlers for capturing real-time inputs from consolidated data feeds, exchange trading systems, direct feeds (ITCH), XML or file-based data sources
- Database tools for storing and retrieving time-series data (e.g. trades, intraday prices, close prices) for applications such as charting and websites
- Streaming distribution system for output of multiple data streams (real-time, delayed, conflated, snapshot) to users and applications (e.g. OMS, EMS)
- Intelligent data throttling module that can deliver multiple conflated data streams
- Permissioning system allows individual users or applications to be entitled for only the data they require. Data usage is recorded on the database, enabling analysis and audit for external compliance and internal cost control.
- Calculation engine for generating new data items from external feeds, possibly combined with internal data.

Historical and Reference Data

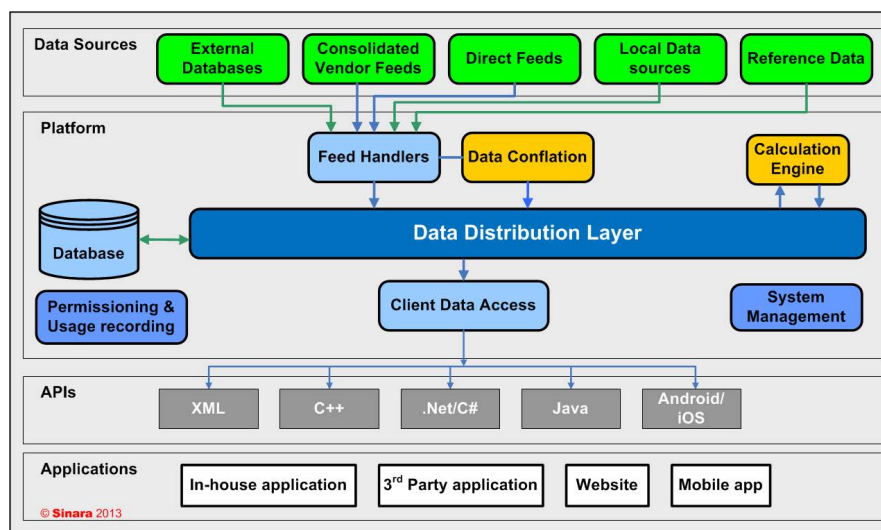
As well as delivering low-latency streaming data, the SinaraMDP collects trade data and news from financial data feeds into a standard SQL database. This allows developers familiar with database technology to use market data more easily and integrate it more quickly into their applications

The main data collection features include:

- Real-time collection of current prices, intraday prices and individual trades
- Collection and management of historical end of day closing prices
- Collection and management of reference data
- Collection of news headlines and stories
- Integration of financial fundamentals, results, dividends, corporate actions and other structured data with the price data.

External databases can also be accessed for client applications or local storage

The diagram below identifies the main components



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