Establishing Data Governance and adapting to Business Change

Financial firms worldwide are facing the same core challenge to establish robust Data Governance policies with the prime target of improving data quality across Regulation, Risk Management and Business as Usual Processing, whilst reacting to the immediate demands of business Innovation.

Meeting the Business Need

The Bloomberg PolarLake Enterprise Data Management Platform meets the need for an industrial strength, highly change tolerant, production proven EDM solution by delivering:

- Rapid Vendor Feed and Client Internal Data On-Boarding
- A highly change tolerant environment including self-maintaining feed handlers and soft data storage
- Data Manufacturing covering data matching, data selection, data arbitration and data transformation
- Data Operations Workflow, Monitoring and Management including 4 eyes exception handling, and operations dashboards
- Data Usage Monitoring and MI Reporting
- Data Publication in user defined formats via multiple integration technologies
- An industrial strength platform including a full audit trail of all business change
- A proven product implemented in the most demanding of buy-side and sell-side firms and is used to drive the Bloomberg PolarLake Service.

Fig. 1 Complete Data Quality Management
The Bloomberg PolarLake Enterprise Data Management Platform covers the complete data supply chain from data acquisition through to data distribution. The Platform has been designed to manage multiple data sets.

- Security Master Data
- Pricing Master Data
- Corporate Action Data
- Entity Data
- Trade and Position Data

Fig. 2 Data Supply Management

Rapid feed on-boarding including self-maintaining feed handlers
Effective implementation of data manufacture processes, across client businesses through the application of business rules
Data Transformation and scheduling for delivery of data to multiple downstream systems and environments
Next Generation High Speed Platform

**Modern Technology**
Platform clients’ benefit from the same Bloomberg PolarLake technology platform which is used to provide a world-class scalable multi tenancy managed service. Bloomberg PolarLake has continued to invest in developing a state of the art data processing platform to provide modern scalable big data capabilities for on-premise deployment.

**Service Oriented**
Each high level component can be delivered as a set of services with well-defined interfaces. Services can be independently versioned to ease upgrade paths. In fact multiple versions of the same service can be deployed concurrently to support parallel testing of new features.

**Data Storage**
Multiple data storage mechanism are available to store bi-temporal data as well as schema-less NOSQL style storage. Using BPL data projection, virtualisation and streaming technologies data can be stored efficiently and to massive scale.

**Scalable Grid Based Distributed Computing Micro Batches**
The environment supports horizontal and vertical scaling. Core concepts such as Jobs, micro batches and the allocation of worker nodes similar to those seen in high performance computing environments are used throughout.

**Alarms**
A centralised Alarm monitoring and tracking capability exists keeping track of critical errors and warnings. Alarms have state and can use workflow to define alarm handling workflows.

**Scheduling**
The environment has built in scheduling for the creation of jobs within the computing environment. Scheduling of jobs are tightly integrated with the jobs, services and messaging infrastructure to allow dependency creation across the environment.

**Manufacturing**
Manufacturing services provide the core transformation, normalisation, validation, arbitration and derivation capabilities of the environment.

**Publication**
Publication services allow data products to be delivered in different ways called Publication Paths which support multiple formats, protocols and interaction models.

**Watchdog**
Key processing milestones can be defined and watchdog processes can check essential processes have reached their appropriate states.

**Orchestration**
Services, Jobs and Event Messages can be monitored and controlled using pre-defined business process definitions. The progress of a given process can be monitored using the Flight Plan Visualisation capabilities.

**Vendor Bulk Services**
Services to heartbeat, list, download, store, index, validate and profile data exist for key vendors. Scheduling discrepancy may raise alarms.

**Matching Services**
Matching of data using rules, graph relationship as well as fuzzy exist.

**Reporting Services**
Data can be extracted from operational services to provide useful insight into operational performance.

**Workflow Queues**
Tasks can be assigned to workflow queues – associated business process definition can drive the possible processing paths.
## Integration and Distribution

At the distribution phase of the Data Supply Chain, the Platform supports sophisticated mapping, transformation and routing of data from any source to either a canonical format for distribution or directly to a downstream system format.

The table below shows examples of the range of implementation achieved through the platform:

<table>
<thead>
<tr>
<th>Data Feeds</th>
<th>SIX Financial</th>
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Workstation

The Bloomberg PolarLake Workstation is a multi-function browser based application which delivers:

- Process Monitoring
- Workflow and Exception Management
- Data Quality Dashboard
- Security set-Up

Process Monitoring

The workstation provides a complete visualisation of the process flow including a flight plan which depicts each step in the data management process.

Data Quality Dashboard

The Data Quality Dashboard gives a complete overview and analysis of processed data including errors by:

- Exception Type
- Rule Category
- Data File
- Attribute
- Date and Time
- Identifier

Security Set-Up

A complete security set-up process is available including:

- Security Search and Selection
- Matching and Integration of Multiple Instrument identifiers
- Data transformation and integration
- A complete audit trail

Workflow and Exception Management

A complete workflow monitoring and allocation environment is delivered including full exception management visualisation and 4 eyes processing.
Implementation and Support

Bloomberg PolarLake offers a complete implementation and support environment to our EDM Platform clients.

Implementation

The process is based upon the Bloomberg PolarLake Implementation Framework which has been developed to ensure success through:

- Best Practice Standards and Approach
- A decade of successful implementations across the finance industry
- A structured approach to client engagements

The Implementation Framework delivers Project Transparency and Certainty through:

- Dedicated Client Services Team
- Management and reporting of deliverables and milestones
- Access to Bloomberg PolarLake thought leadership
- Client Stakeholder Engagement
- Phased Implementations delivering continuous business benefit and reduced project risk

Support

Client Support is a continuation of the implementation process, ensuring that all knowledge gained at the project phase is applied to the support environment.

The support model is based upon:

- A fully defined model including 24 x 7 capability, defect severity and response time definition.
- Dedicated Support Teams
- Multiple Support Mechanisms across Web, Email and Telephone

Training

Complete training programs are available. These are led by dedicated trainers who have practical implementation and operations experience. Training can be tailored to client specific needs and cover:

- Product
- End User Workstation Use
- Integration
- Operations and Administration

All courses are supported by extensive training material.

For More Information

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