

EBX.Platform 
Distributed Data Delivery

Last update: March 8, 2010

**Exposing Reference & Master Data to
Service Oriented Architectures & Worldwide Organizations**

www.orchestranetworks.com

Introduction: EBX The Data Governance Software

The first Model-driven MDM software designed to absorb any Reference / Master Data model and dynamically generate Data Governance features and SOA Data Services.



Model

Design rich data models with embedded rules and links



Manage

Manage tables and hierarchies using a Web-based UI



Delegate

Define roles, users and fine grained permissions on your data



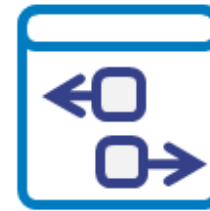
Govern

Collaborative workflow for change and approval



Control

Keep control on past, present & future versions of your data



Exchange

Connect to any middleware using Data Services



Distribute

Distributed Data Delivery for SOA & Worldwide Organizations



Deployment on any Java server



Data Repository on major RDBMS



100% Web-based User Interface

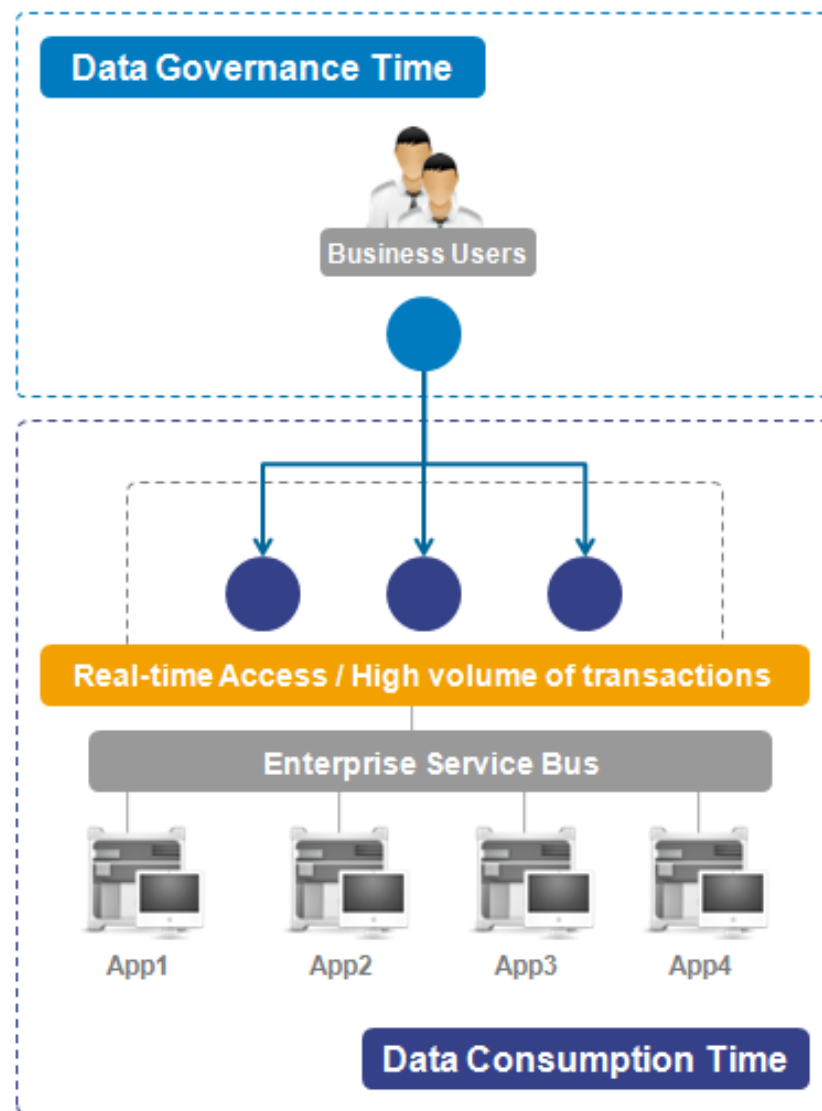


SOAP/WSDL XML APIs

Requirement #1 Data as a Service in SOA

When applying Data Governance in a central repository using EBX.Platform, organizations need to expose Reference & Master Data as real-time data services

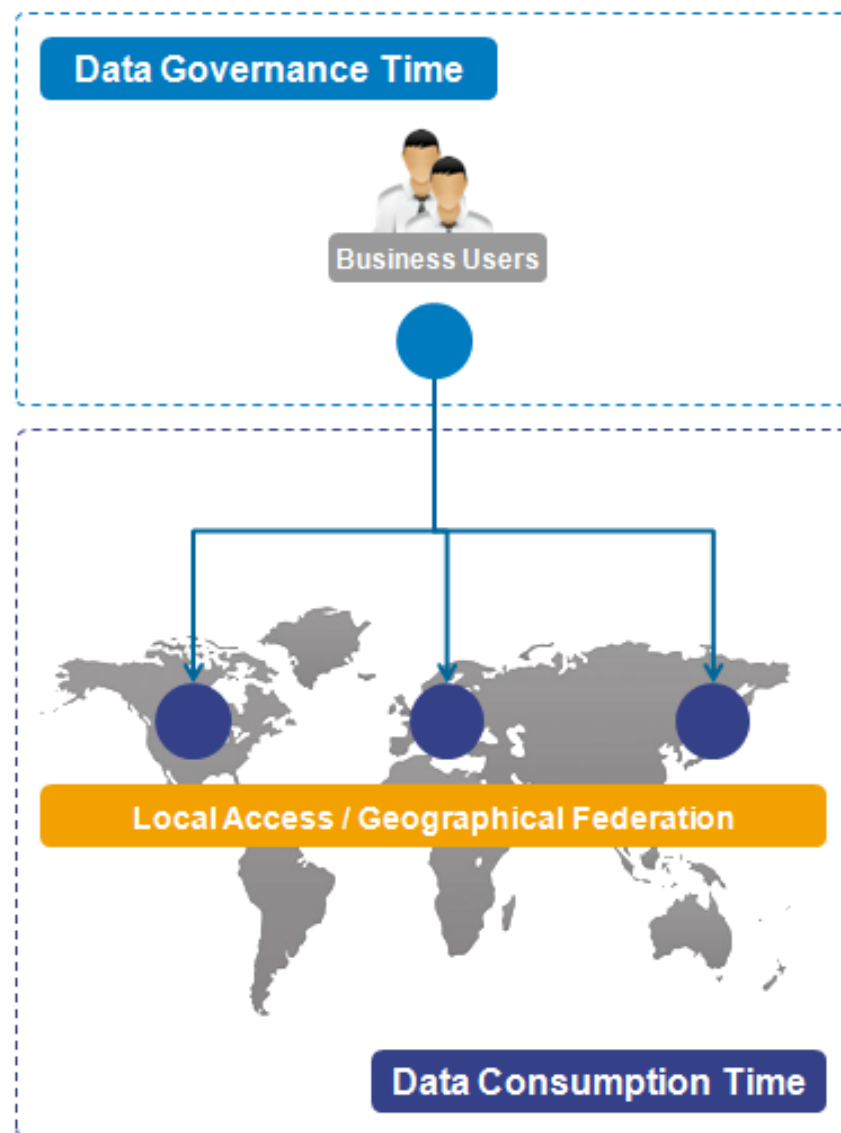
- Applications consume data in Real-Time
- Applications access Ref & Master Data through SOA infrastructure (Bus)
- High volume of data access
- Scalability, Load Balancing
- High Availability, Clustering



Requirement #2 Geographical Federation

While they apply Data Governance in one central solution using EBX Platform, organizations need to distribute their data in multiple geographical locations for local access

- One central governance..
- .. many local versions
- Heterogeneous architectures
- Local accesses using UI or Services



Introducing EBX.Platform **D³**

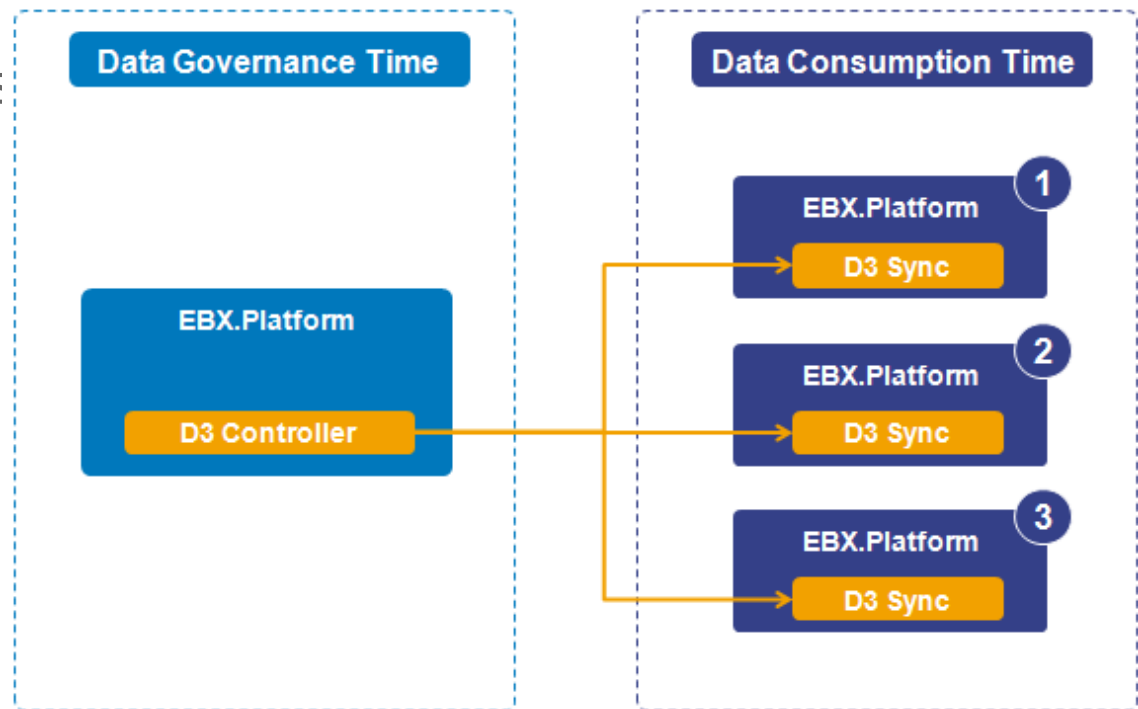
EBX.Platform D³ - **Distributed Data Delivery** - provides advanced synchronization features for clustering and federation.

D3 Controller

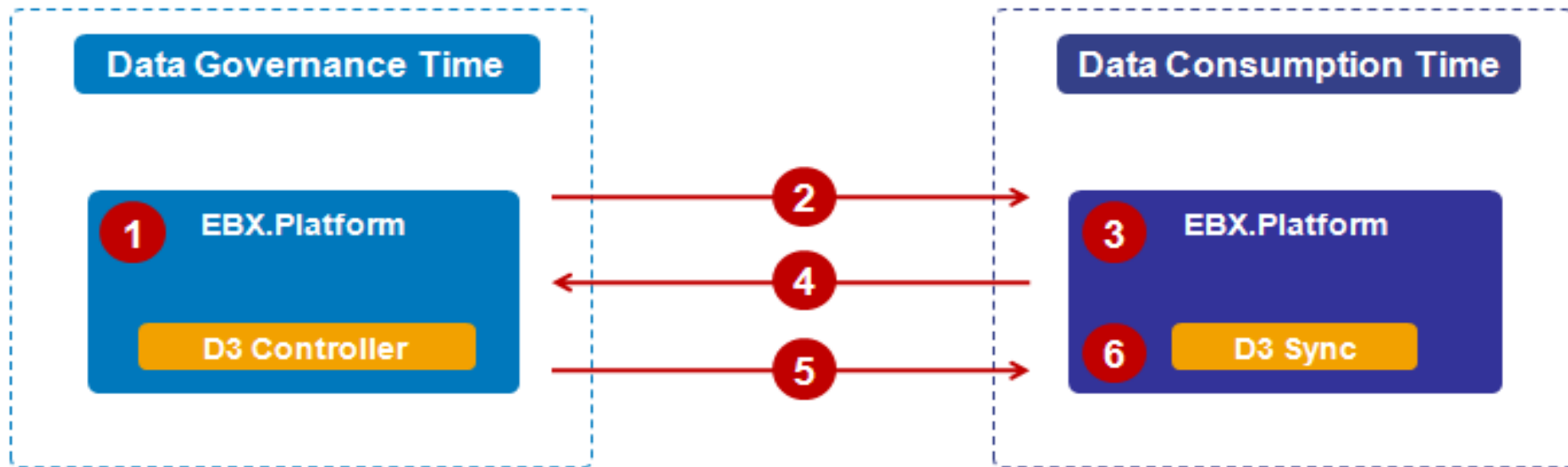
- Define Delivery Profiles
- Control & monitor targets
- Push data updates
- 2-phase commit

D3 Sync

- Automatic registering to Controller
- Receive updates
- Commit changes



How it works?

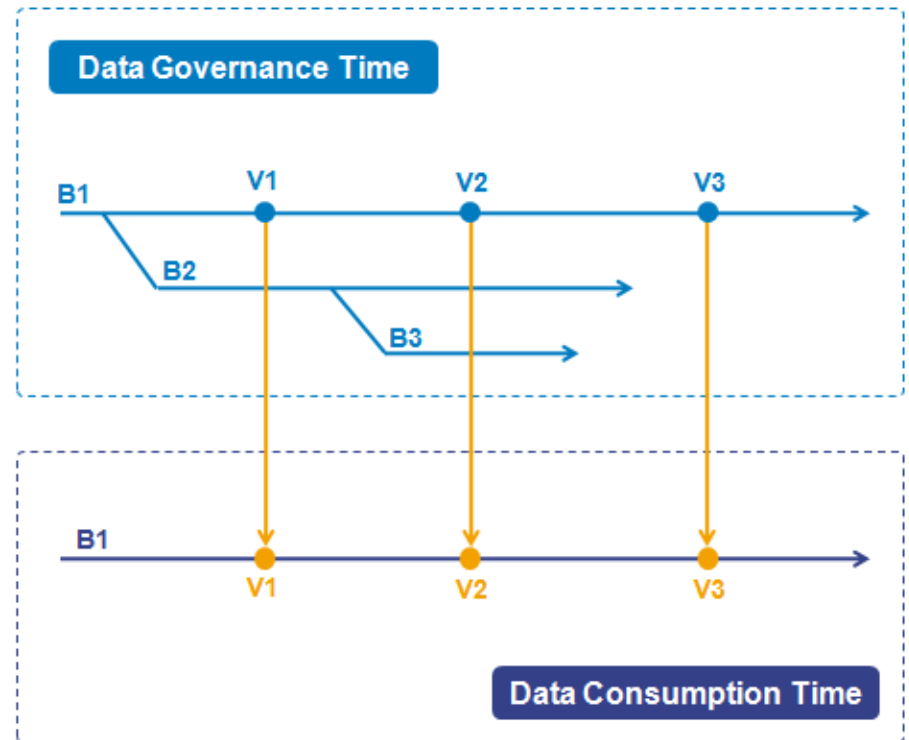
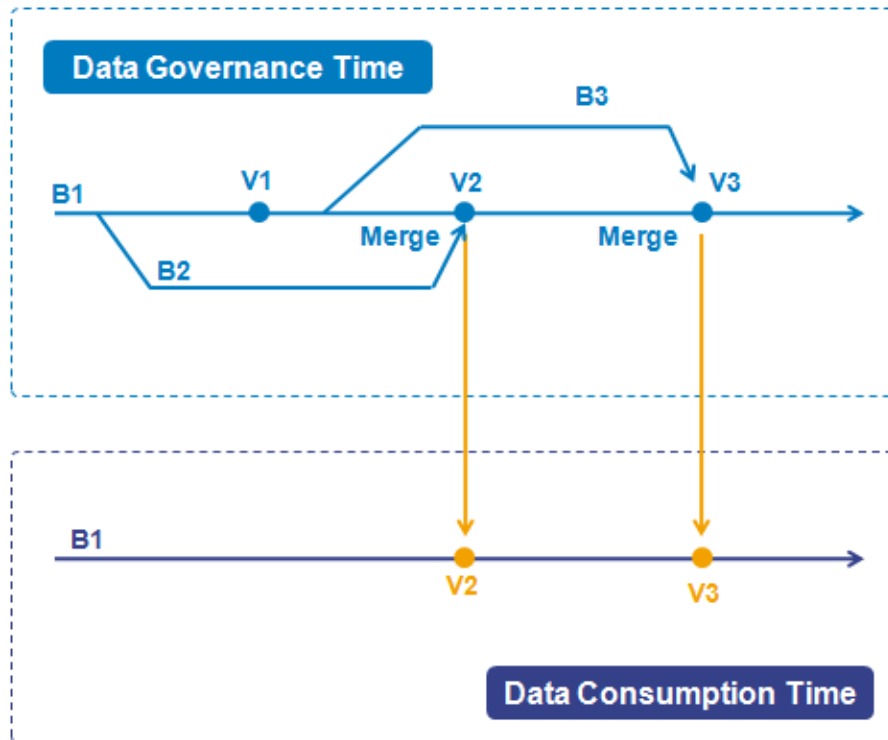


1. Data is updated in EBX.Platform (via UI or Services)
2. Update is pushed to D3 Syncs
3. Update is received by D3 Syncs
4. Acknowledgement by D3 Syncs to D3 Controller
5. D3 Controller sends commit instruction to D3 Syncs
6. Update is committed to EBX targets

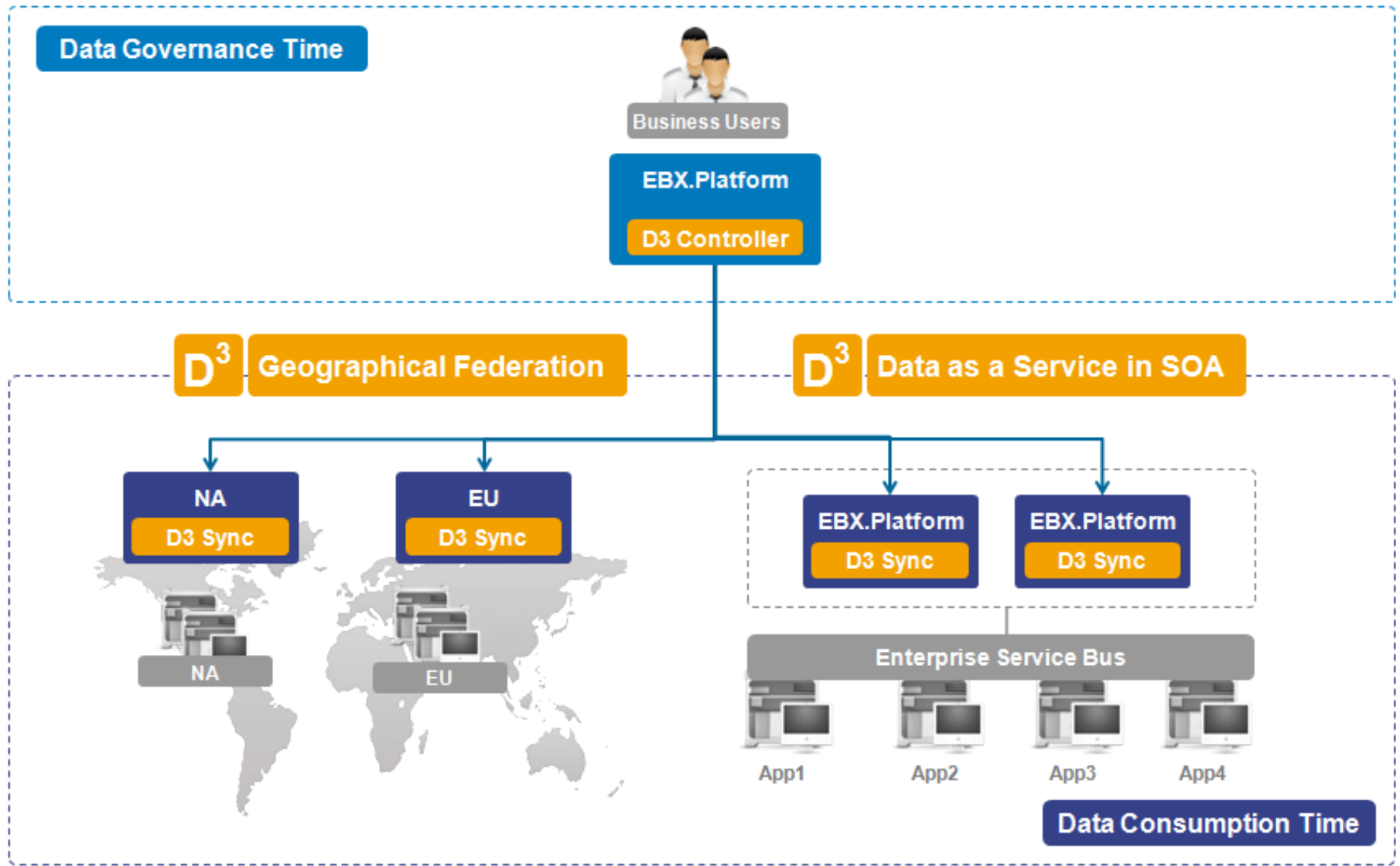
(*) Messages: SOAP on HTTP/HTTPS, Data updates on TCP-IP

Sync on Branches or Versions

- **Sync on Branches** : Updates on a branch are synchronized when child branches (updates) are merged
- **Sync on Versions** : Updates are synchronized when a version is created on a branch (manually, on event, in workflows..)



D³ Distributed Data Delivery



EBX.Platform D³ Benefits

D³ extends EBX.Platform to an Enterprise Data Governance solution with SOA and transactional capabilities

- **Decouple Data Governance & Consumption Cycles**
 - Avoid complex database replication
 - Avoid single point of failure of MDM hubs
- **Scale data delivery for high volumes of transactions**
 - Leverage SOA infrastructure
 - Very high performances
- **Distribute data across your organization**
 - Global governance, local access



Thank you.

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