CONFINITY SOLUTIONS

Confinity Market Data as a Service (MDaaS)

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ABOUT CONFINITY SOLUTIONS

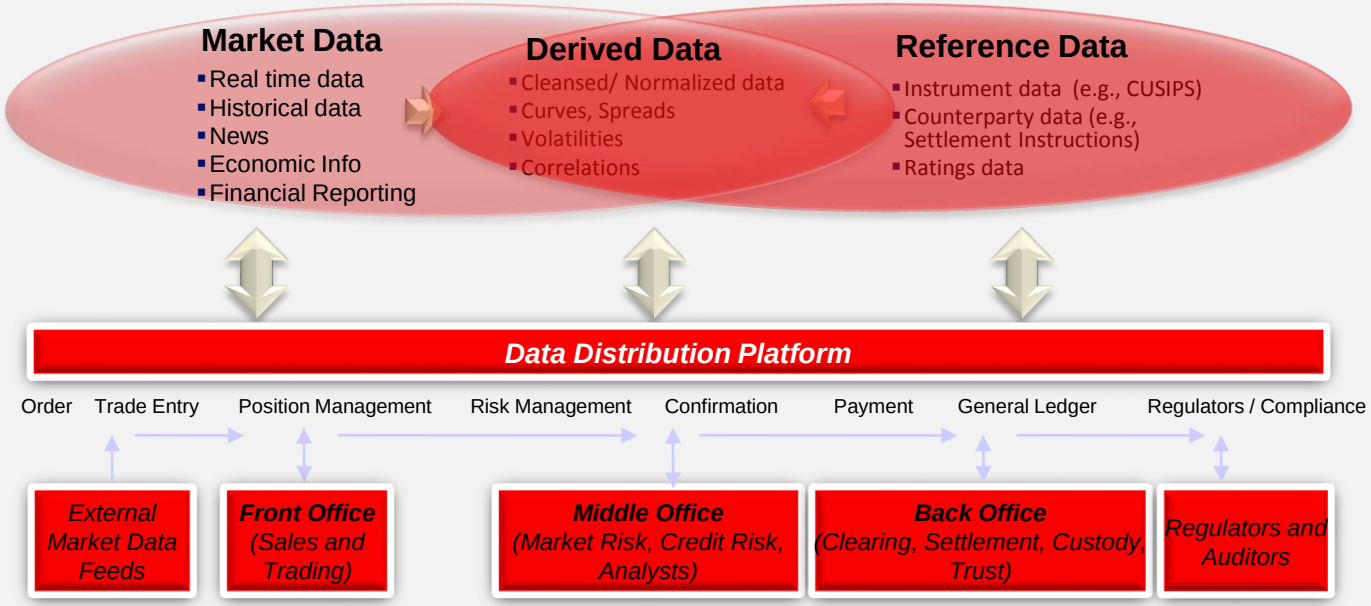
- **Confinity Solutions GmbH** was established in 2016 to acquire source code of IBM Software:
  - Websphere MQ Low Latency Messaging and
  - Websphere Front Office

- **Confinity Solutions** is a FINTECH startup with mature products (8 years+)

- **Confinity Solutions** has an established customer base worldwide (25+ customers)

- **Confinity Solutions** has a strong partner ECO system to deliver services worldwide

Market Data in Financial Services Sector



...supporting the end-to-end Financial Services value chain

Market Data Situation & Customer Pain Points

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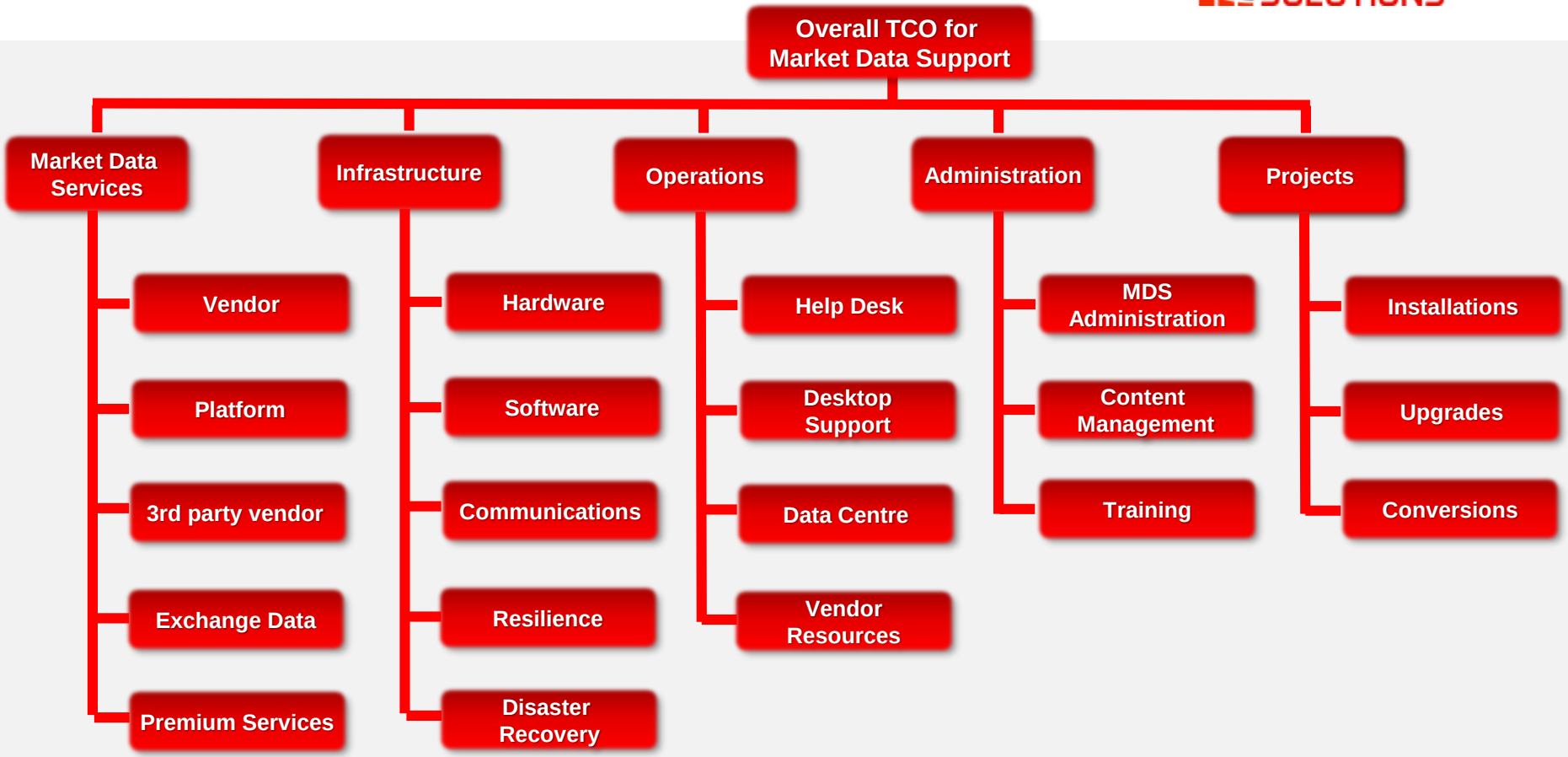
Situation / Pain	Confinity Solutions MDS Offering
- ‘De-facto’ monopoly vendor position for technology and content. High cost of data packages and SW/HW. (e.g. Reuters-RMDS/RDF, BB-Terminal, etc.)	- New ‘vendor’ neutral platform allows for vendor/source selection based on content&price. (combination of vendor feeds and direct exchange feeds is optional)
- Dependency on vendor architecture and existing data structures for data delivery and internal processing result in very high migration costs	- New vendor-neutral platform reduces dependancy and secures flexibility in future (mix&match of vendor and direct source feeds; >70 feeds available)
- Exponentially increased data volumes push banks towards algo trading with minimum latency requirements	- New Low Latency solutions in SW + HW
- Reduced reaction time per quote forces ‘terminal users’ out-of-market in S&T	- New Low Latency solutions in SW + HW
- Increased number of users in ‘Off-trading-floor’ (OTF) environments through www	- Intranet + Internet based architecture with new profiling mechanism
- New (web-enabled) competitors challenge traditional vendor functions (aggregation and delivery)	- New neutral platform enables best multi-vendor / multi-source mix & match
- Lower margin on trading activities and cost pressure	- Cost reduction of infrastructure w. potential for Managed Services or Outsourcing

TCO elements for Market Data in a Bank Organisation



Market Data Industry – A 26billion US$ BUSINESS*

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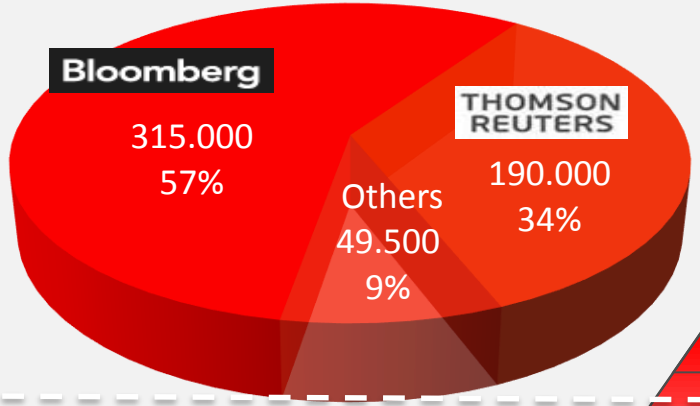
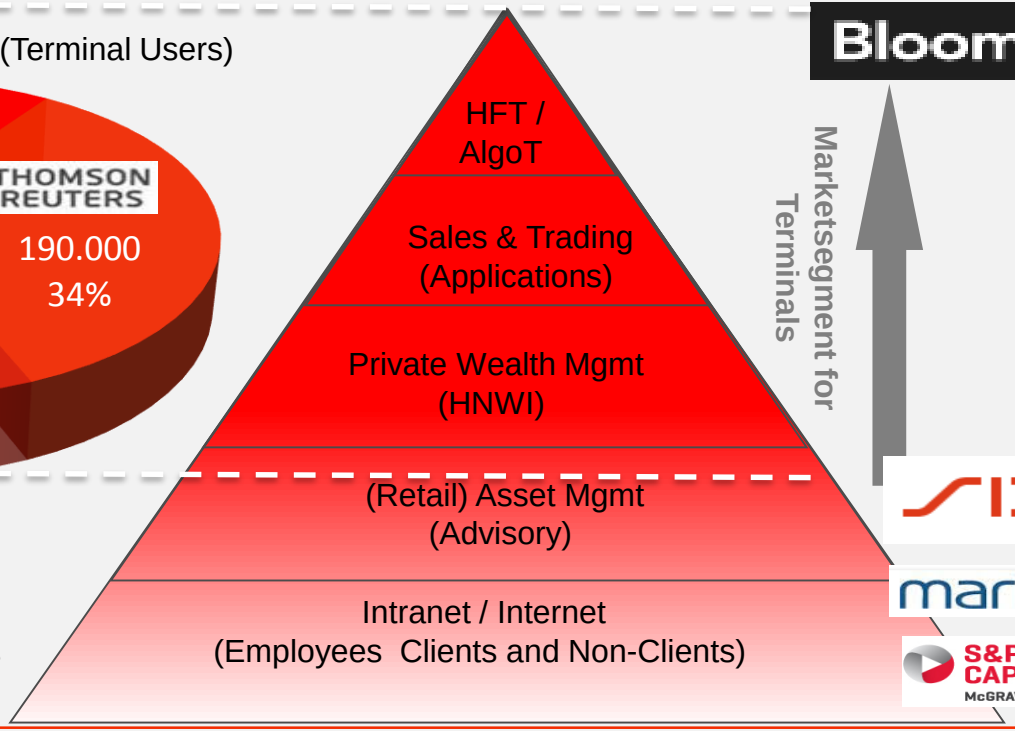
Data Distribution technology (LLM / WFO) is key for customer reach

#Market Data Professionals (Terminal Users)





Bloomberg

THOMSON REUTERS

Interactive Data

SIX

FACTSET

markit

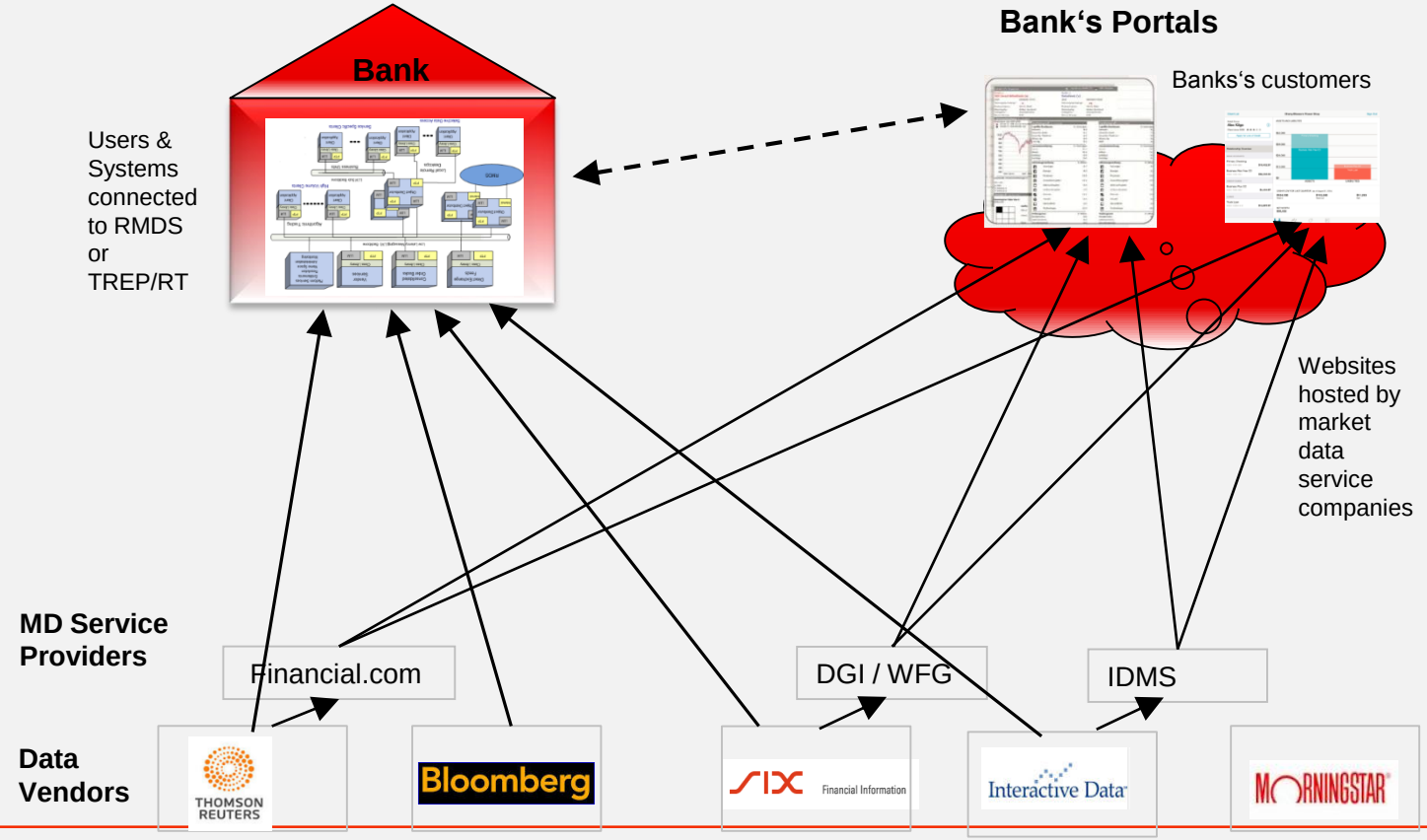
MORNINGSTAR

S&P CAPITAL IQ McGRAW HILL F

superderivatives

* Total revenues from data, news and technology

MARKET DATA DISTRIBUTIONS TODAY



CONFINITY MARKET DATA DISTRIBUTION SYSTEM (CMDS)

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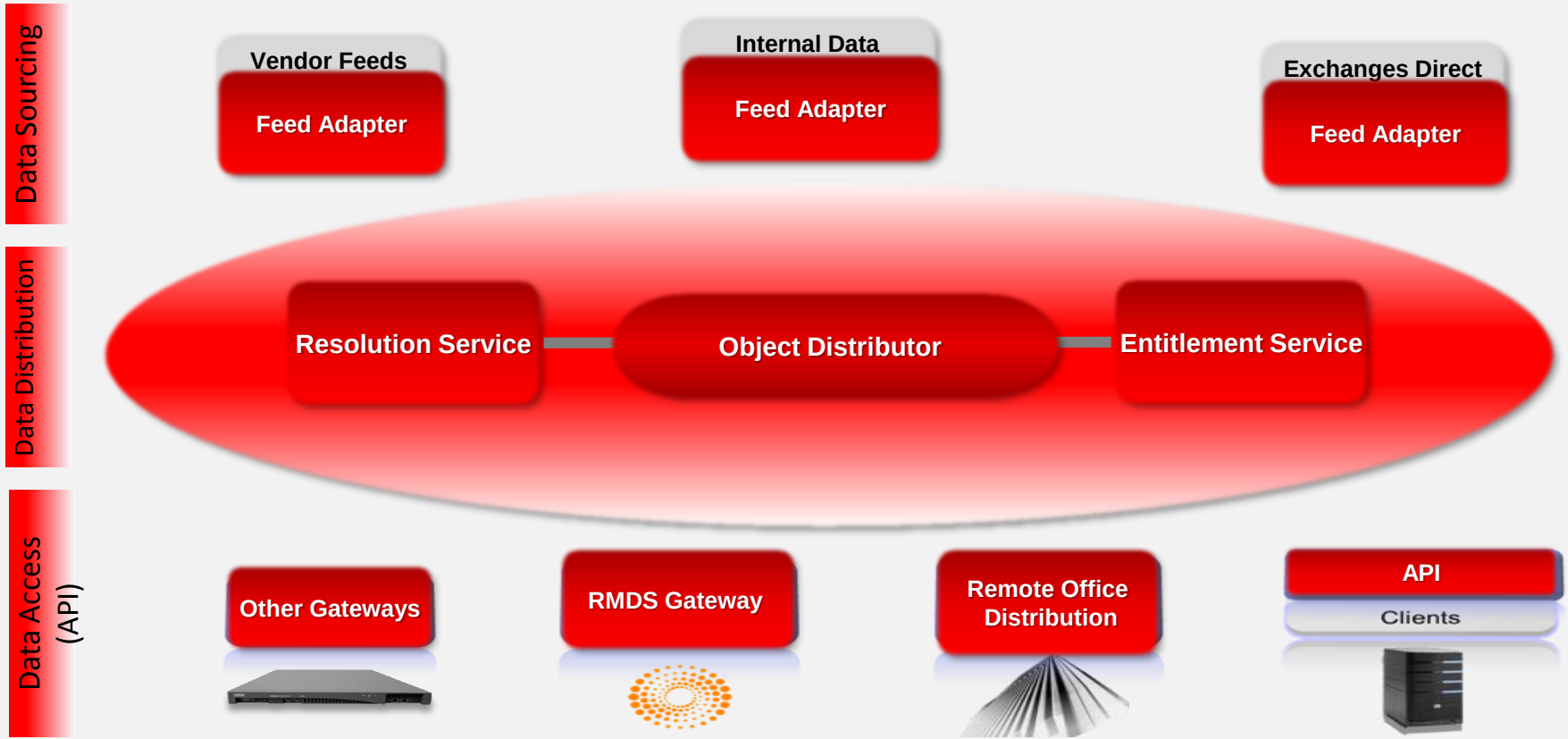
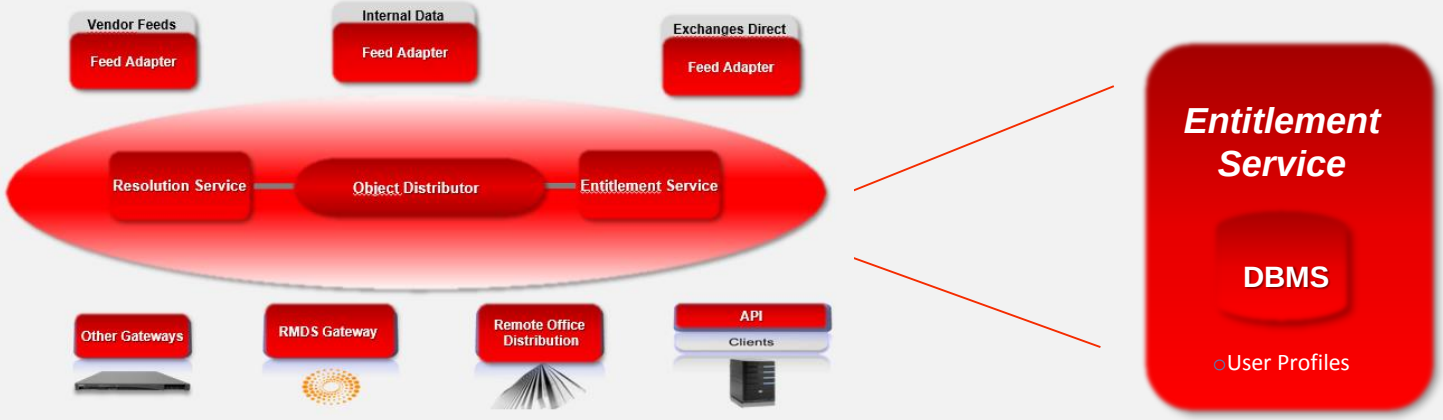
- **CMDS** is a high speed, high throughput market data distribution system with high reliability and flexible integration capabilitie
- **Agnostic** – Content neutral, accepts feeds from any provider
- **Performance** – ~150 microseconds end-to-end latency for typical market data feed
- **Small Footprint** – Commercial x86 blade servers running Linux
- **High Availability and Load balancing** – Sub second failover
- **Latency Monitoring**
- **Ticker Plant**
  - Feed Processing – Consolidate, transform, and distribution of data
  - Feed Failure Detection – Auto Recovery
  - Configurable – data model and Last value cache
- **Low Latency Messaging** – Concurrent distribution at no loss of speed
- **Simple APIs** – Simplified Client APIs for data access
- **Scalability** – Horizontally and Vertically scalable
- **Feed Adapters** – Direct and Consolidated feed adapters

CMDS – 3 Layers: Sourcing, Distribution, Access



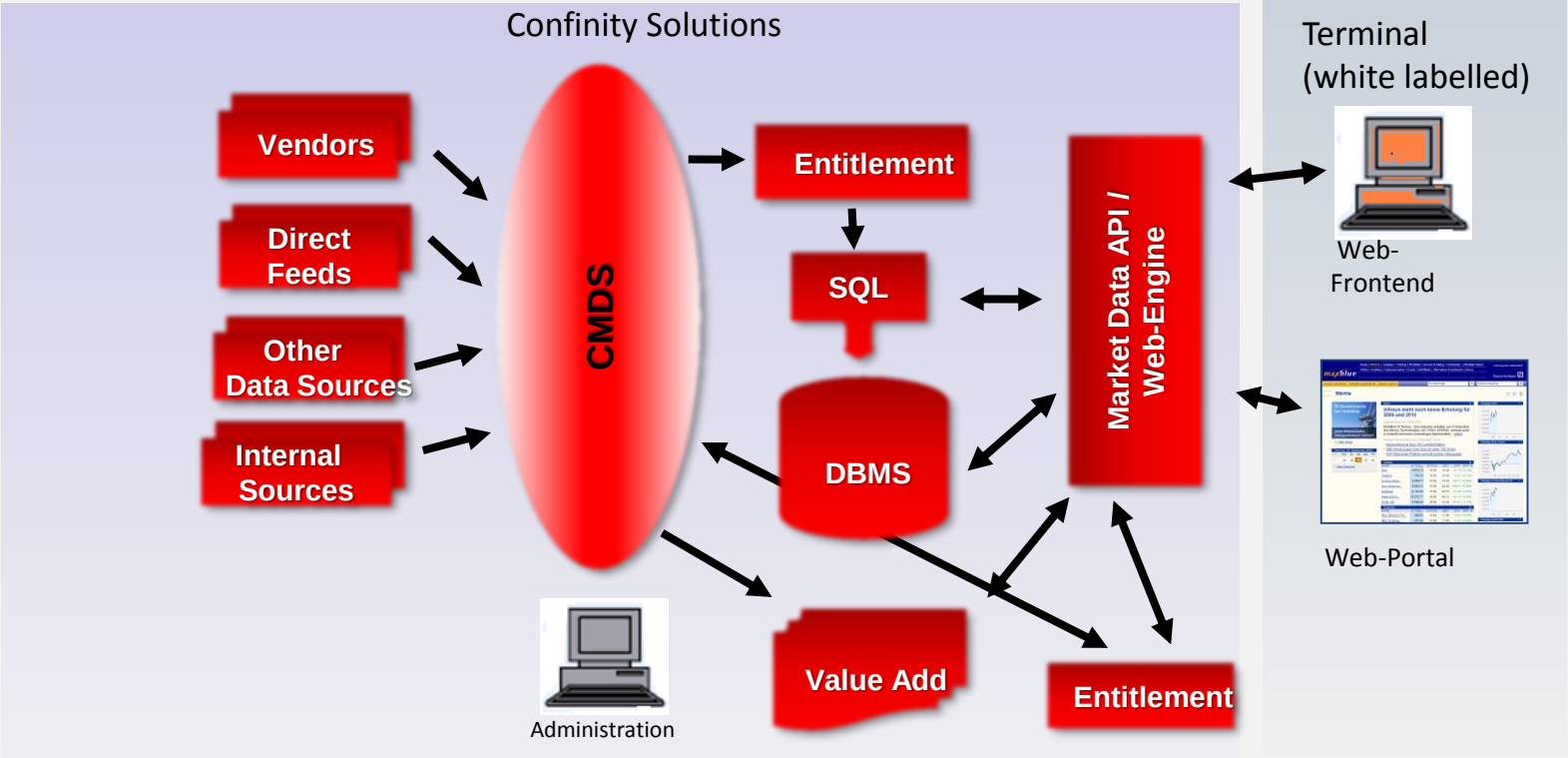
CMDS - Entitlement Service



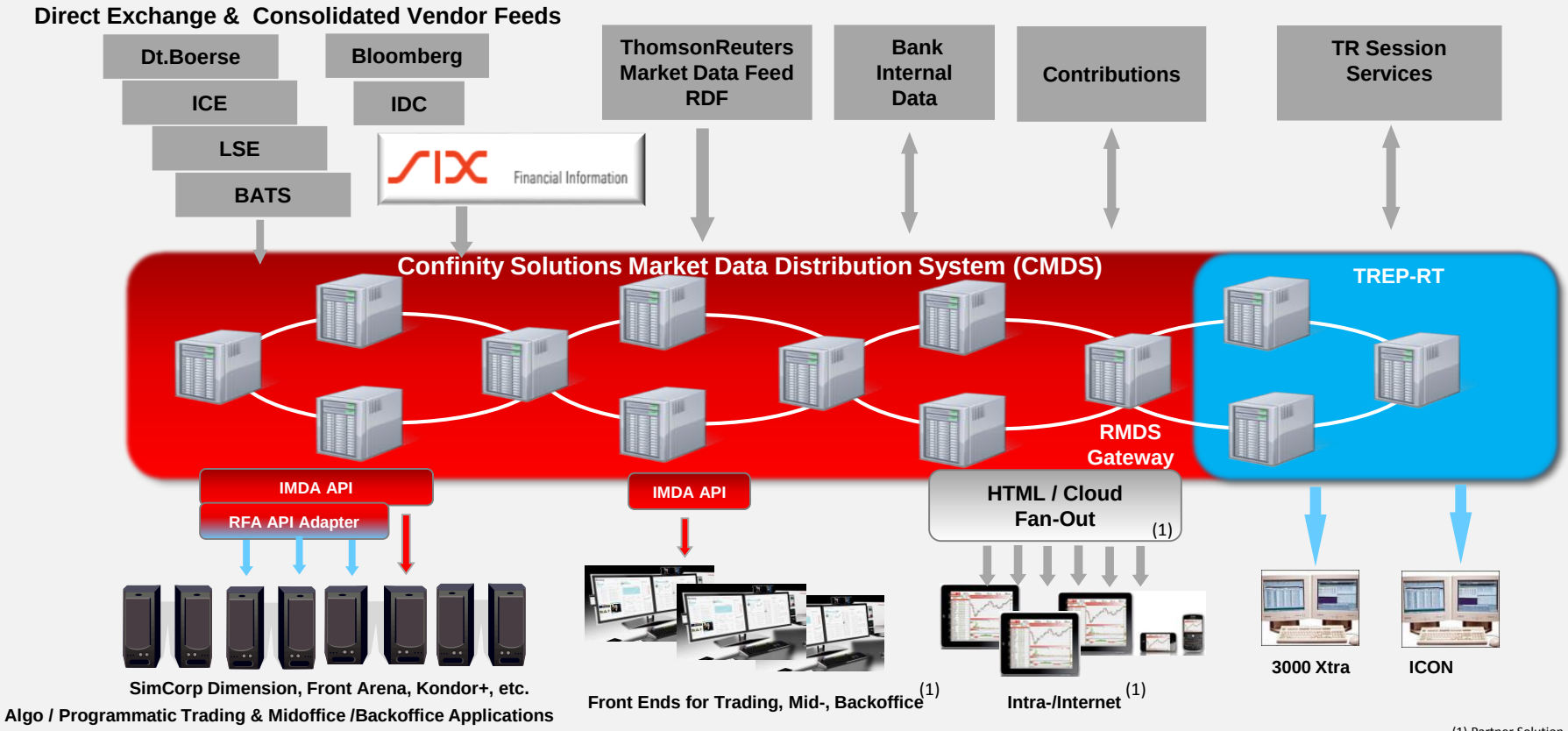
- User Validation
- By Symbol, Content
- Usage Logging
- Reporting Services

- Central Administration
- DBMS/SNMP Import/Export
- DACS/FITS Integration
- Changes are Dynamic

Market Data Distribution + Frontends (optional)

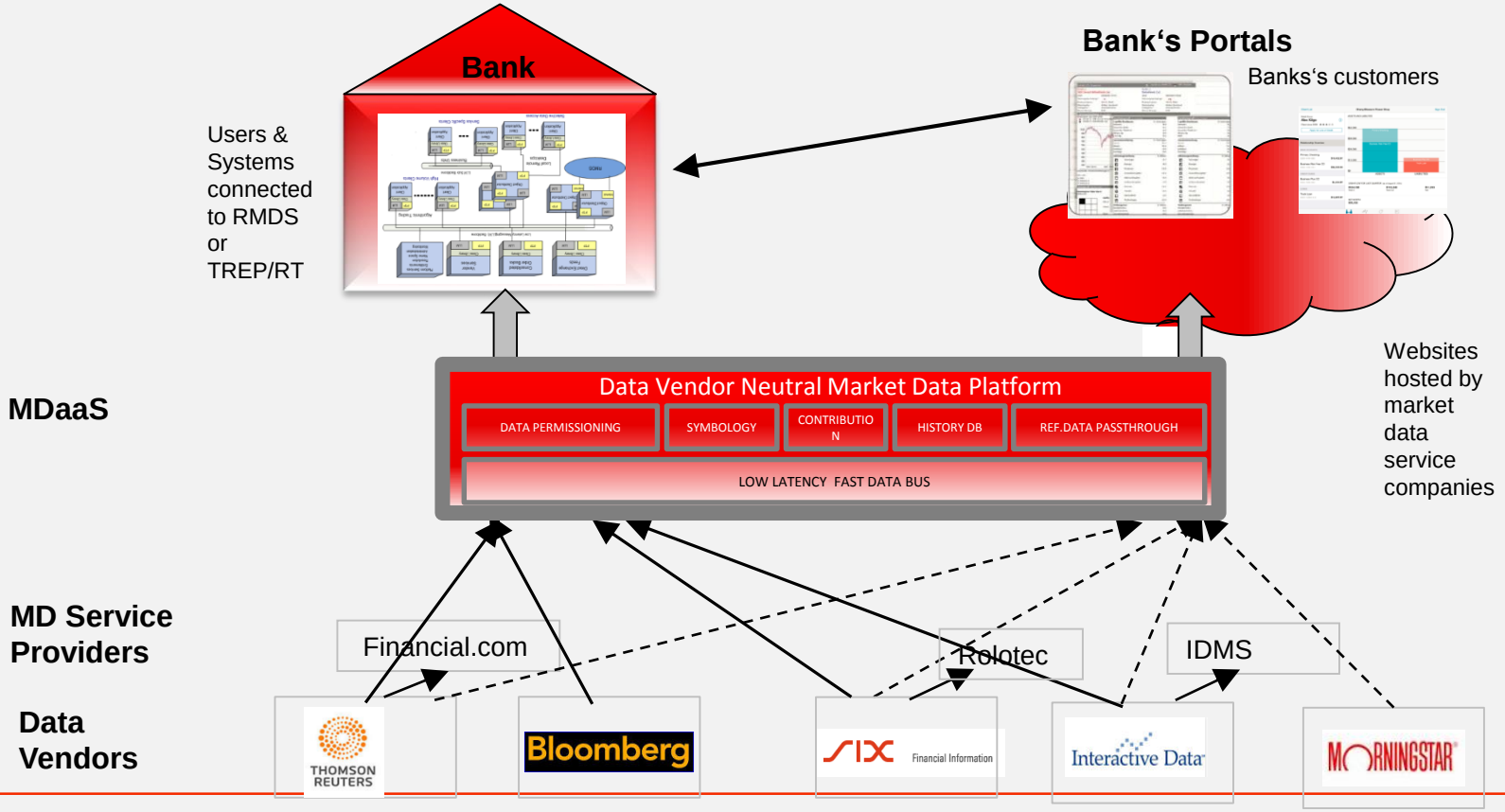


CMDS as Alternative to TREP – RT



(1) Partner Solution

Market Data Transformation Into Cloud



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