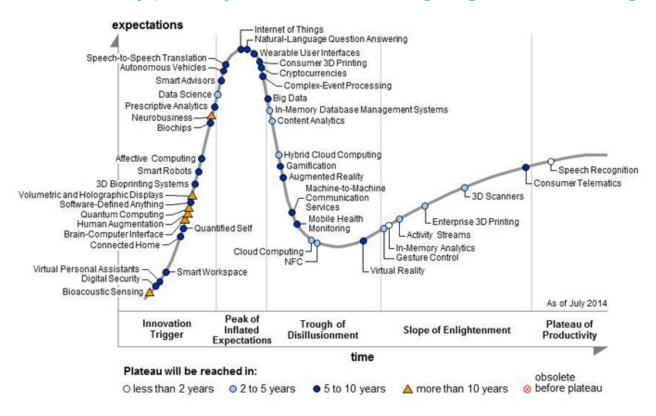


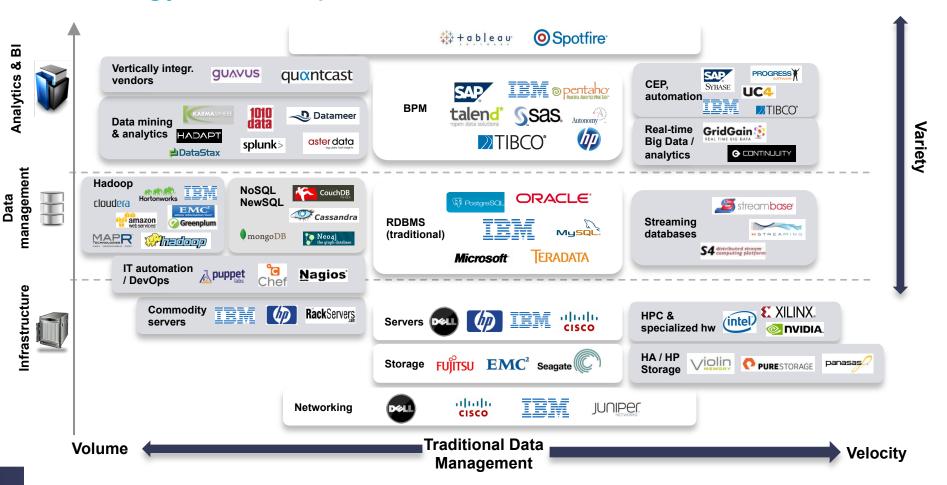
Data Management Cisco Data Virtualization

DC TechDays

Gartner's 2014 Hype Cycle for Emerging Technologies



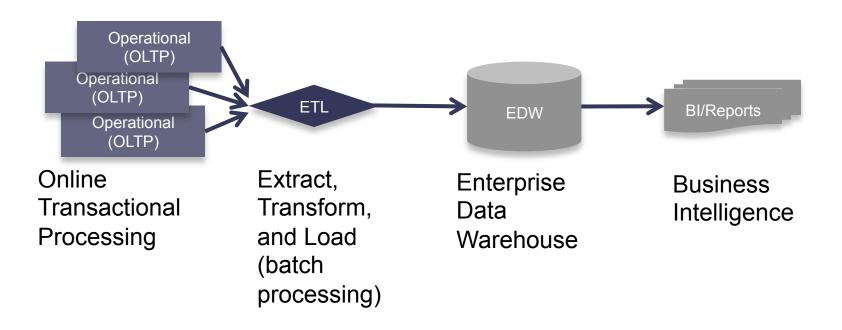
Technology Landscape Evolves Based on Data



"Life is unfair, and the unfairness is distributed unfairly."

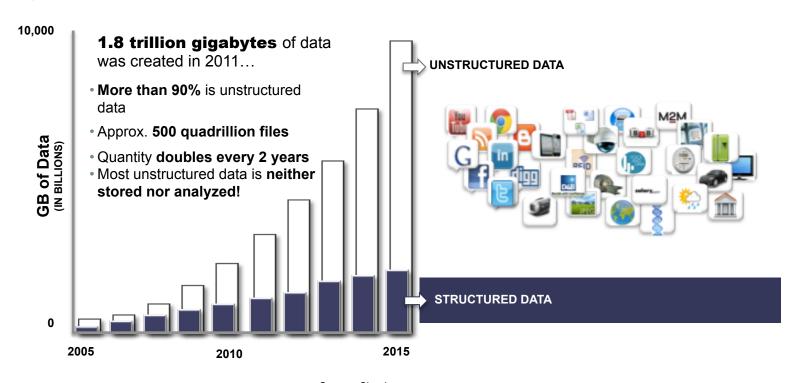
Russian proverb

Traditional Enterprise Data Management

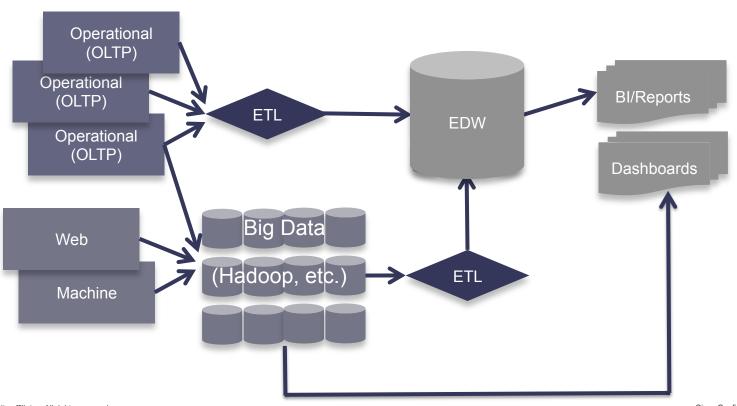


So what has changed?

The Explosion of Unstructured Data



Enterprise Data Management with Big Data



Business Opportunity:

As Data Grows, Leading Businesses Use It To Drive Better Outcomes & Beat Their Competition

Business Outcomes



Business Outcomes

- Customer
 Profitability
- Faster Time to Market
- Cost Reduction
- Risk Management
- Compliance
- Overall Agility

Business Pain:

Data Silos Proliferating, Data Is Now Distributed Everywhere

How Does the Business Leverage All the Data?









Business Pain:

Data Silos Proliferating, Data Is Now Distributed Everywhere

Business Intelligence







Analytics

Cisco Data Virtualization on UCS

























What is Cisco Data Virtualization?

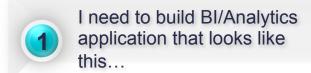
Cisco Data Virtualization is agile data integration software that makes it easy to access data, no matter where it resides. Our integrated data platform lets you query all types of data across the network as if it is in a single place.

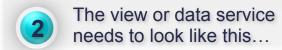
Cisco's Data Virtualization Suite



How Data Virtualization Works

Example Scenario





And the data comes from these sources, in these formats...



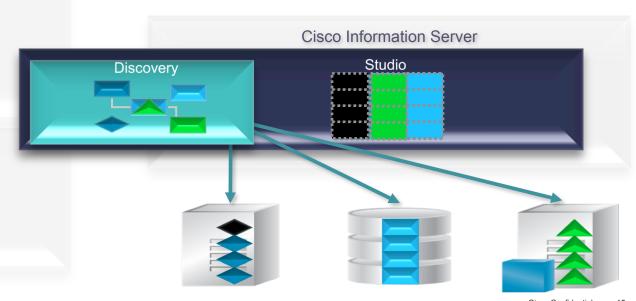
Discovery Within Design and Development

Design Steps

- 1. Introspect available data
- 2. Discover hidden relationships
- Model individual view/service
- 4 Validate view/service
- 5. Modify as required

Benefits

- Automates difficult work
- · Improves time to solution
- Increases object reuse



Data Virtualization Production

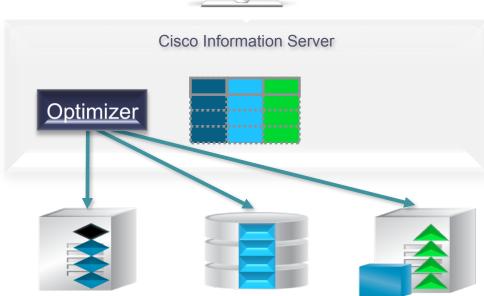
Production Steps

- 1. Application invokes request
- 2. Optimized query (single statement) executes
- 3. Deliver

Benefits

- · Up-to-the-minute data
- Optimized performance
- · Less replication required





Data Virtualization Production with Caching

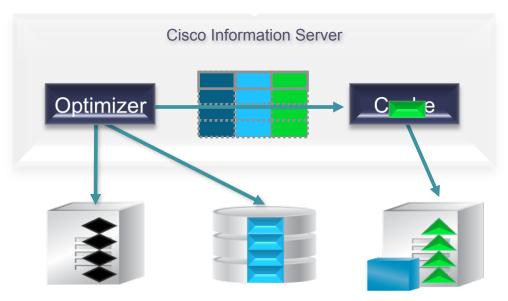
Production Steps

- 1. Cache essential data
- 2. Application invokes request
- 3. Optimized query (leveraging cached data) executes
- 4. Deliver data in

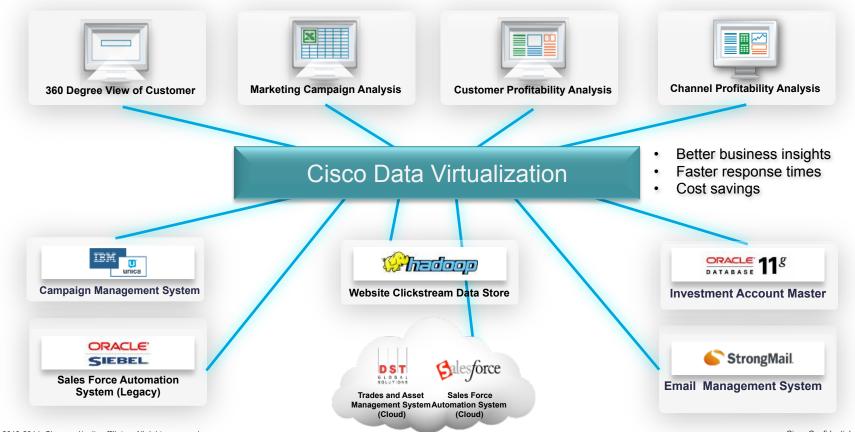
Benefits

- Boosts performance
- · Avoids network constraints
- Allows 24x7 availability

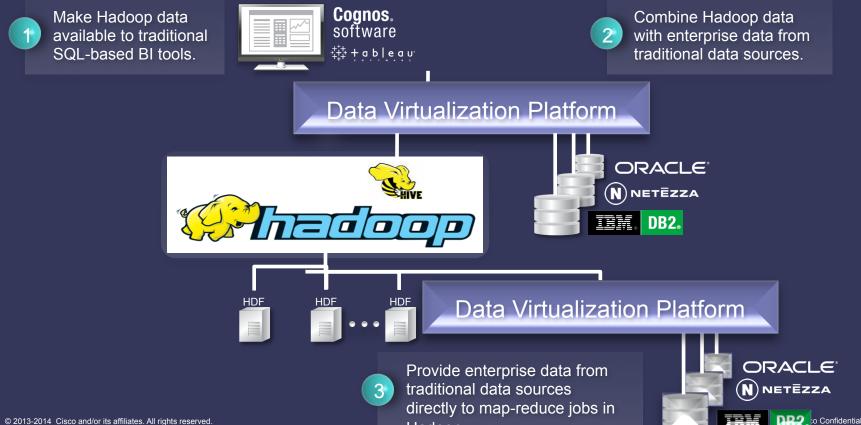




Example: Marketing Analytics



Example: Big Data - Integrate Hadoop & Enterprise



Hadoop.

How Cisco Data Virtualization Fits In Your IT Environment

Vendor Neutral

- Promotes vendor independence
- Not dependent on any application development or database platforms

Leverages Open Standards

Front-end APIs

JMS, HTTP, REST, SOAP, JSON, XQuery, ODBC, JDBC, ADO.NET

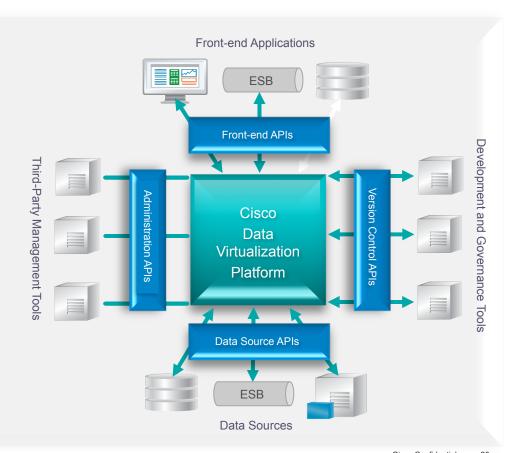
Data Source APIs

ODBC, JDBC, HTTP, SOAP, JSON, JMS, URI, POJO, Application APIs

Administration APIs

Control and run views/services with scripting and third-party tools

 Development and Governance Tools Subversion, Perforce, SourceSafe



Data Virtualization Data Source Adapters





Capabilities

- Relational Databases
- Web Services
 - SOAP, REST, ODATA
- Tabular and XML Files
- Excel Spreadsheets
- LDAP Directories
- · Hadoop / Hive / Impala
- · Custom Java Adapter
- Applications
 - SAP, Oracle EBS, Salesforce.com, Siebel
- OLAP Cubes
 - SAP BW

Cisco Data Virtualization

Better Business Outcomes, Faster, for Less

Business Intelligence







Analytics

Cisco Data Virtualization



Immediate Access



5-10x Faster



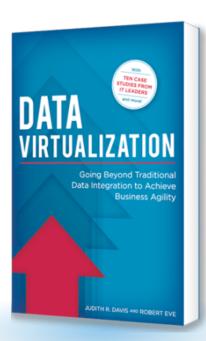
Up to 75% Cost Savings

Higher Impact

More Agile

Less Expensive

The Impact of Cisco Data Virtualization



Largest Data Virtualization Customer Base

- Highly complex implementations
- Proven business outcomes

Thought Leadership and Expertise

- We wrote the Book on Data Virtualization
- Deepest data virtualization expertise
- Hundreds of published articles and blogs

Performance Leader

- Most powerful optimization algorithms
- Only vendor to offer network, compute and data synergies

Thank you.

