

# Accelerate Data Loading for Big Data Analytics

## Attunity Click-2-Load for HP Vertica



## » Attunity update

### » Solutions for :

1. Big Data Analytics
2. Live Reporting
3. Migration
4. Modernization
5. Mobile Integration

### » Summary, Q&A,

# Our Mission

**Make Data Available Where and When Needed**  
**improving Business Intelligence, Operations & Processes**

*Real-time information availability  
where & when needed*

*Focused on data and content,  
databases and files*

*For enterprise, big data, and  
cloud environments*

# 2000+ Customers

Trusted by leading companies worldwide and half of the Fortune 100

## Financial Services



## Manufacturing / Industrials



## Health Care



## Government



## Technology / Telecommunications



## Other Industries



# Partner of Choice to Technology Leaders



Trusted by leading global partners

## Strategic Partners



## Go-to-Market Partners

## OEM Partners



## Technology Partners




## System Integrator & Consulting Partners




# Attunity is a Strategic HP Partner



- » Working with HP since the 90's
- » Supports data on all HP platforms (BCS + ISS)
- » CI Ready The logo for 'Converged Infrastructure Ready' features the text 'Converged Infrastructure Ready' stacked vertically in a sans-serif font, followed by a vertical line and the HP logo.
- » System Integration & Distribution Agreement with HP
- » Focused on growth areas such as Big Data (HP HAVEn/Vertica)

# Attunity Customers on HP NonStop (sample)

Many customers cross industries and geographies

Financial Services	Healthcare	Manufacturing/Supply Chain	Other
     	    	    	   

» Attunity update

» Solutions for :

## 1. **Big Data Analytics**

2. Live Reporting

3. Migration

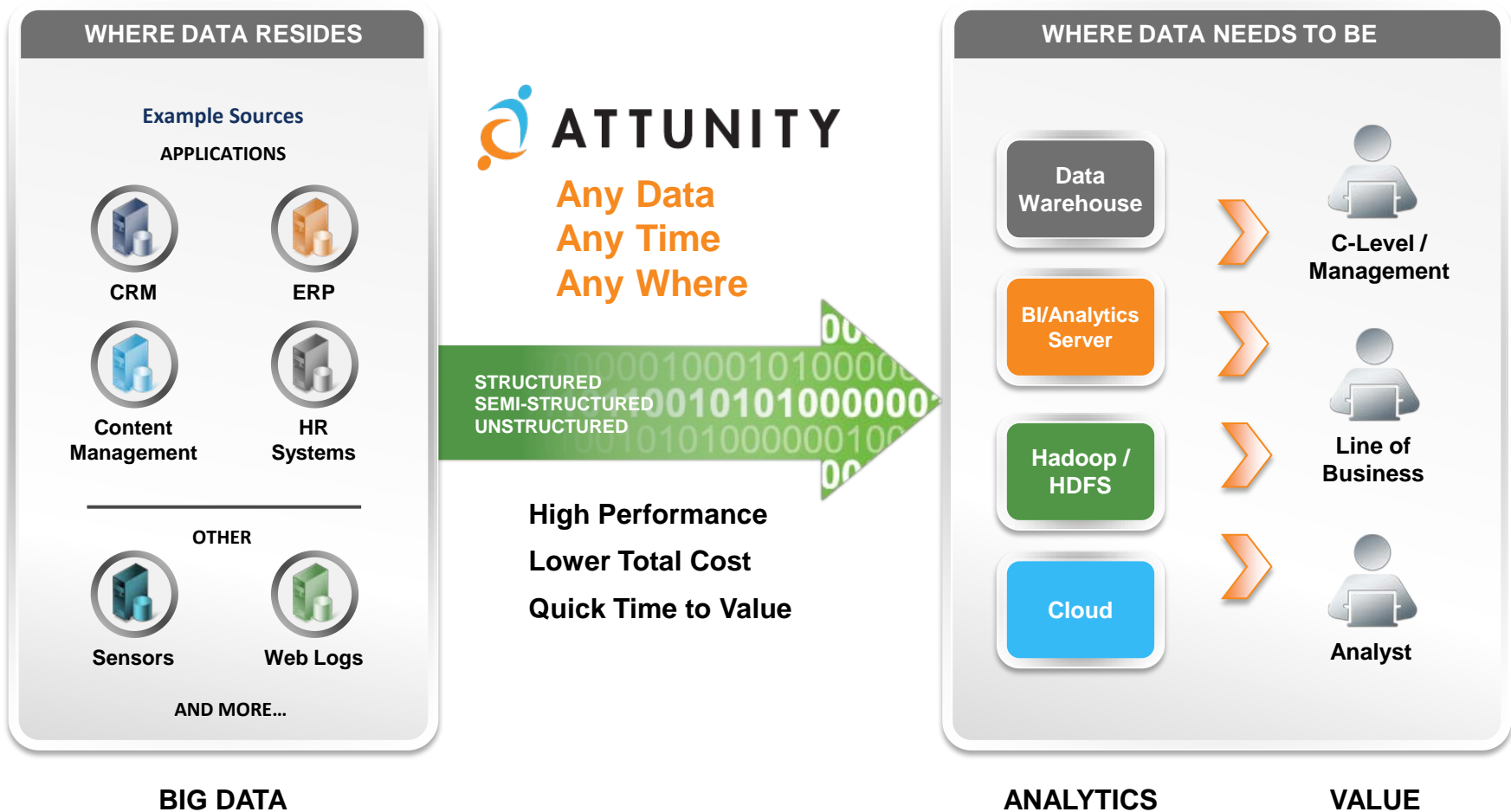
4. Modernization

5. Mobile Integration

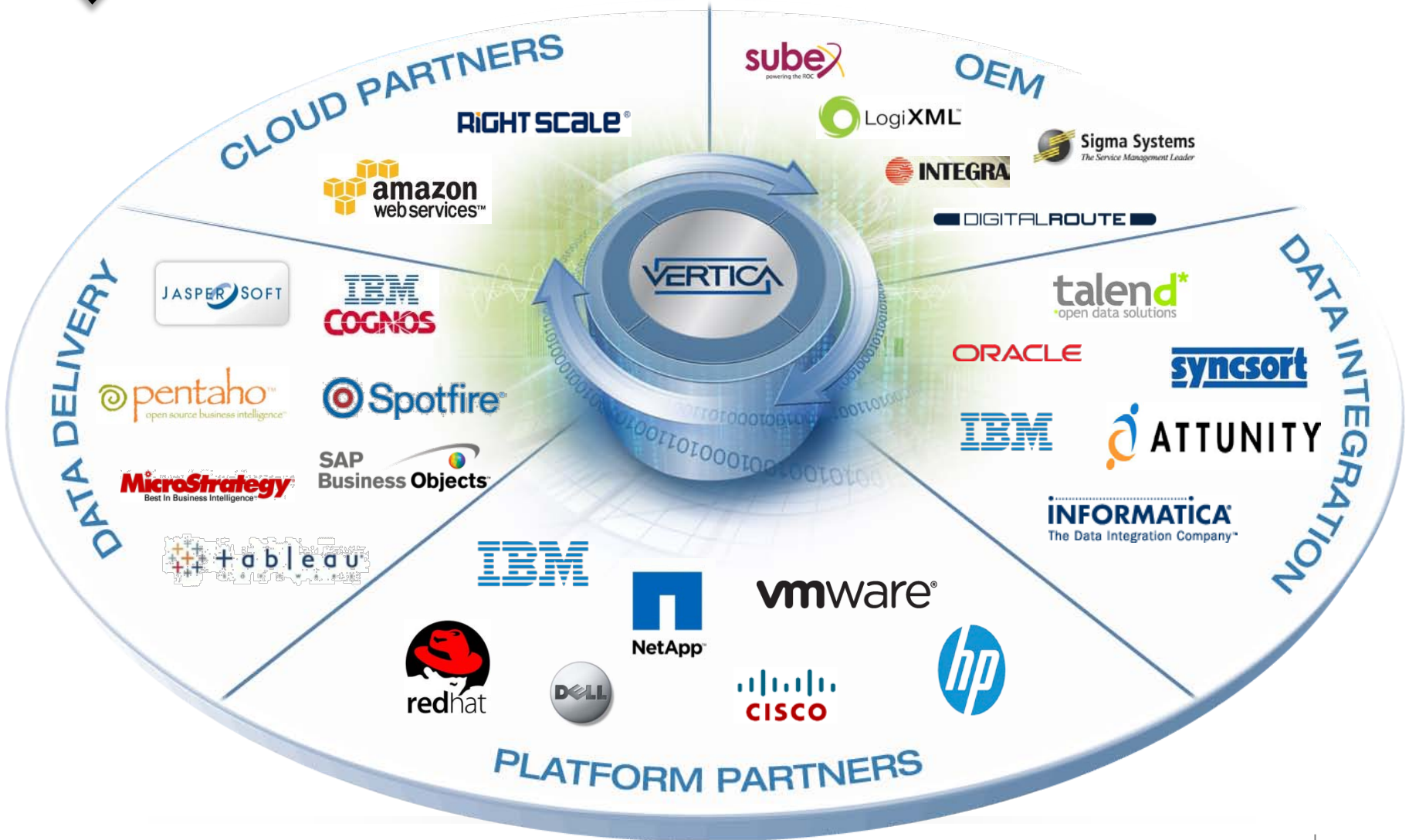
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# Delivering Data for Big Data Analytics



# Application Integration



# Common Pains with Traditional ETL



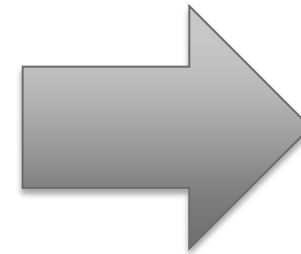
**Takes too long**

**Costs too much**

**Lack of developer resources**

**Not real-time**

**Hard to maintain**



# Accelerate Data Loading



**Quick setup with end-to-end automation**



**Fast loading with optimized integration**



**High throughput with Turbo-Stream CDC**



# The Better Way To Get Data Into HP Vertica



**Fast. Easy. Optimized.**



**More Data**

**Less Time**

**Less Cost**

- **Easy, no development, no complexity**
- **Fully automated, end to end**
- **Fast, high performance integration**
- **Real-time CDC**
- **Significantly lower cost**

# Attunity Click-2-Load for HP Vertica



**Complete, Heterogeneous Data Loading/Replication.**  
**Automating Schema Generation, Full Load, and Change Data Capture (CDC)**



**Click-2-Load.**  
**Drag. Drop. Done.**



**Zero Footprint Architecture.**  
**Nothing to install on source database server for Oracle and SQL Server**

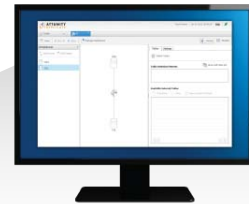


**Turbo-Stream CDC and Optimizations for loading HP Vertica**  
**High performance, low-latency, low-impact, and scalability**

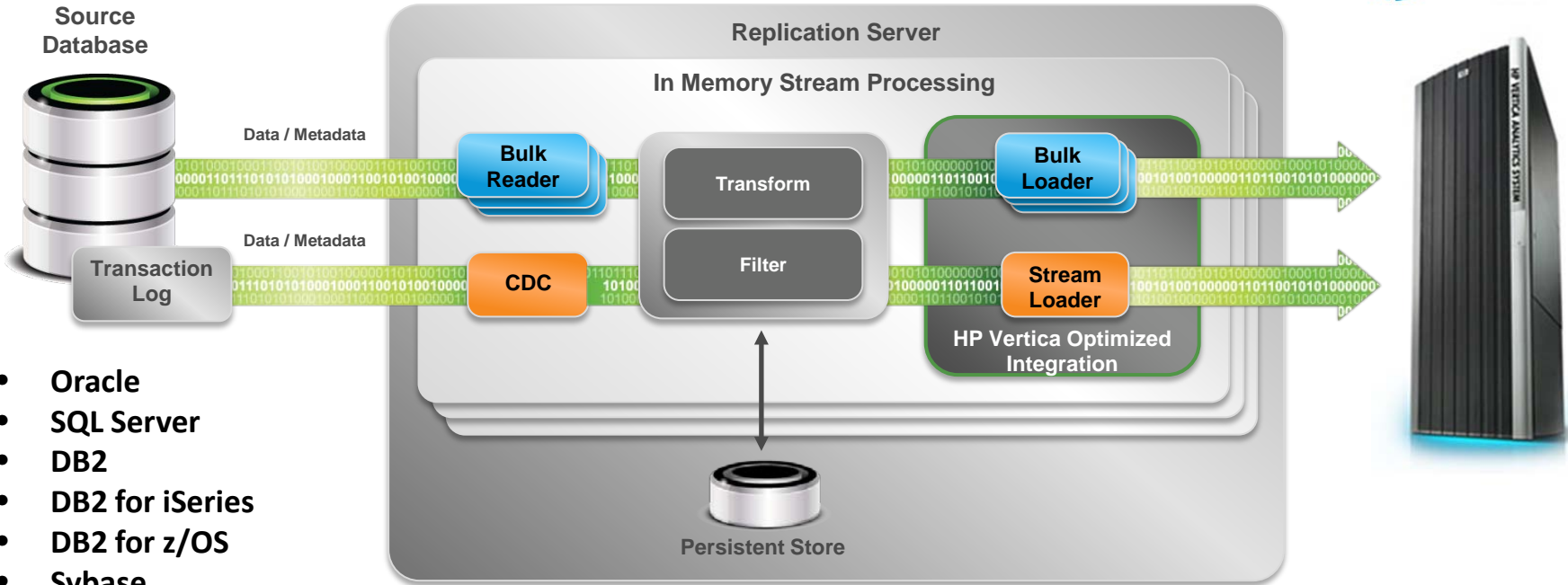


**Monitoring and Control.**  
**Complete Confidence at a Glance.**

# Attunity Click-2-Load for HP Vertica

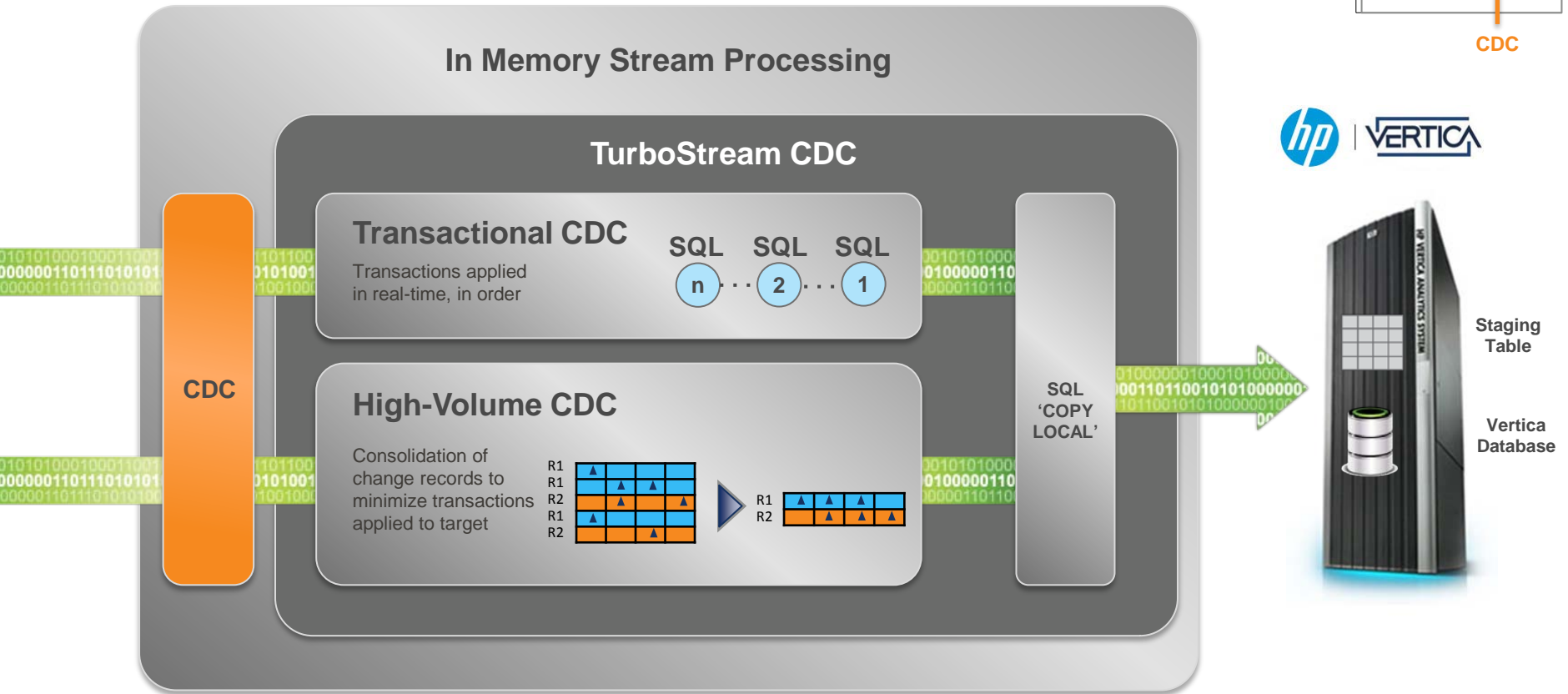


Web-based Designer and Management Console



- Oracle
- SQL Server
- DB2
- DB2 for iSeries
- DB2 for z/OS
- Sybase
- HP NonStop SQL
- ODBC

# Attunity Click-2-Load for HP Vertica TurboStream CDC





# Batch tuning

## Batch tuning

Apply batched changes in intervals:

Longer than (seconds):

But less than (seconds):

Force apply a batch when processing memory exceeds (MB):

Limit the number of changes applied per change processing statement to:

# Click-2-Load with end-to-end Automation

The screenshot displays the ATTUNITY REPLICATE interface for a task named 'ora2verti...'. The main dashboard shows a 'Full Load' status with a progress bar at 77% completion. A 'Total Completion' gauge shows 77% with a timer at 00:00:35. Below this, a 'Tables' section shows progress for 'Completed' (2), 'Loading' (5), 'Queued' (2), and 'Error' (0). A 'Throughput' gauge indicates 205875 rec/sec.

The 'Tables - Loading' table provides detailed progress for each table:

Table Name	Load Duration	Estimated Count	Transferred Count	Current Throughput	Cached Changes	Estimated Finish Time	Progress
SOE.CUSTO...	00:00:28	400000	426887	69452	0	00:00:00	[Progress Bar]
SOE.INVENT...	00:00:28	899933	525693	79638	0	00:00:20	[Progress Bar] 58%
SOE.ORDERS	00:00:27	450000	632003	33032	0	00:00:00	[Progress Bar]
SOE.ORDER...	00:00:05	1351190	146000	32347	0	00:00:42	[Progress Bar] 10%
SOE.PRODU...	00:00:02	1000	0	-	0	-	[Progress Bar] 0%

The right-hand side of the interface shows a 'Swingbench-Oracle' diagram with a 'vertica-target' database. Below this, another dashboard shows 'Incoming Changes' (13 transactions), 'Applied Changes' (a pie chart), 'Apply Throughput' (10 rows/sec), and 'Apply Latency' (12 Sec).

The 'Applied Changes Details' table shows the following data:

Table Name	INSERT	UPDATE	DELETE	DCL	Total Applied	Last Mod time
SOE_CUSTOMERS	75	0	0	0	75	16:44:01
SOE_INVENTORIES	0	302	0	0	302	16:44:01
SOE_ORGN	103	0	0	0	103	16:44:01
SOE_ORDERENTRY_INITIAL...	0	0	0	0	0	16:07:24
SOE_ORDERS	116	195	0	0	311	16:44:01
SOE_ORDER_ITEMS	102	17	0	0	119	16:44:01

# Agenda

- » Attunity update
- » Solutions for :
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  - 2. Live Reporting**
  3. Migration
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- » Summary, Q&A,

# Enabling Live Reporting on NonStop Data



Excel, Crystal Reports, Business Objects, Cognos, Tableau, JasperSoft, QlikView, ...

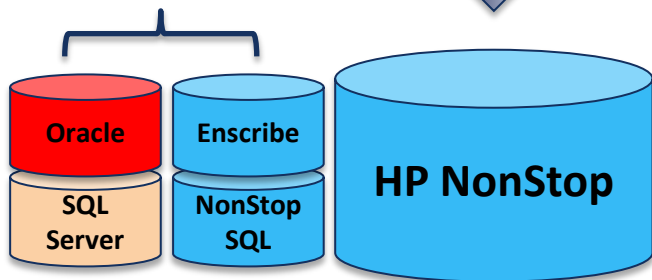


 **ATTUNITY FEDERATE**

Virtual views, joining data across sources

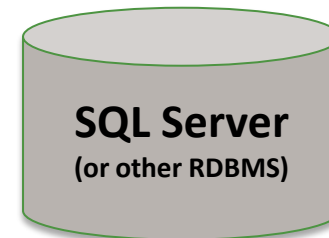
 **ATTUNITY CONNECT**

Direct, SQL-based real-time access



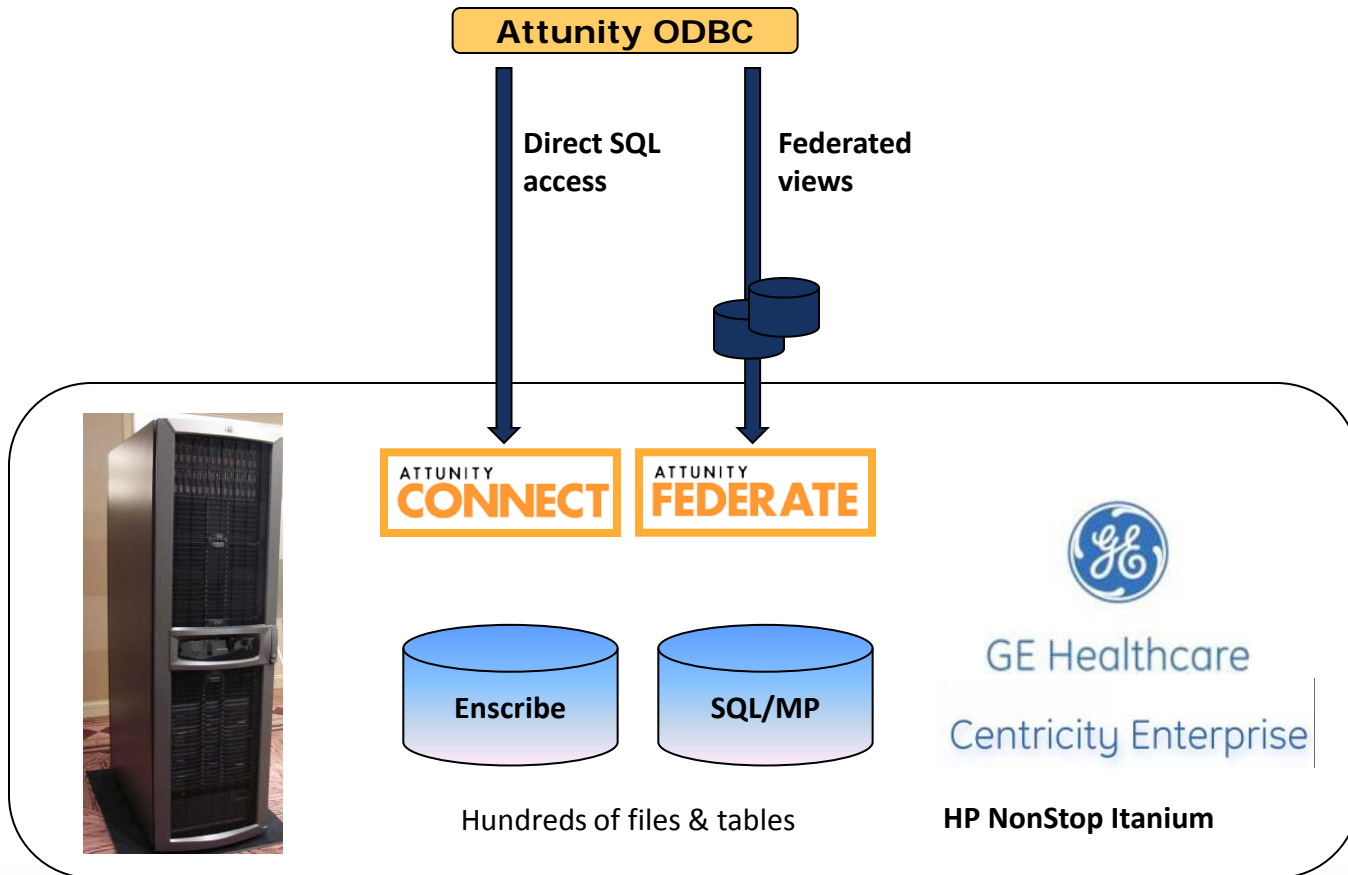
 **ATTUNITY REPLICATE**

Replicate a sub-set of data for query offloading



# Customer: Nebraska Medical Center

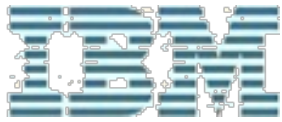
## Live Reporting with HP NonStop Data



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# Migration Solutions for HP NonStop



 ATTUNITY CDC

 ATTUNITY CONNECT



Migrate VSAM, IMS, DB2

ORACLE

 ATTUNITY REPLICATE



 ATTUNITY CDC

 ATTUNITY CONNECT



Migrate RMS, Rdb, Oracle



HP NonStop



# Agenda

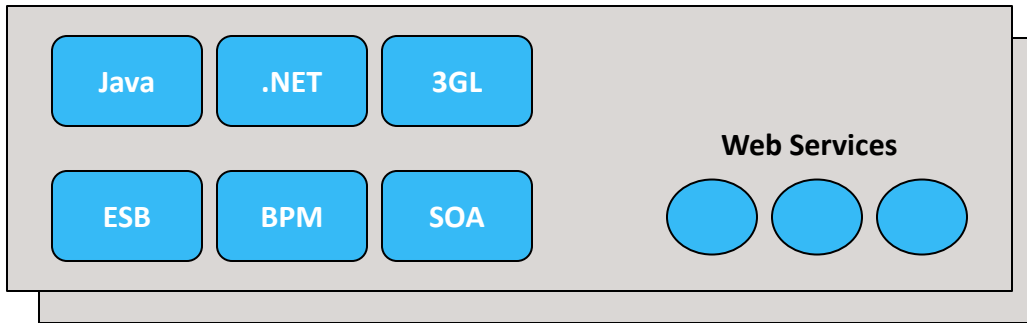
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# Enable Modernization and SOA

## Extend across technologies and platforms

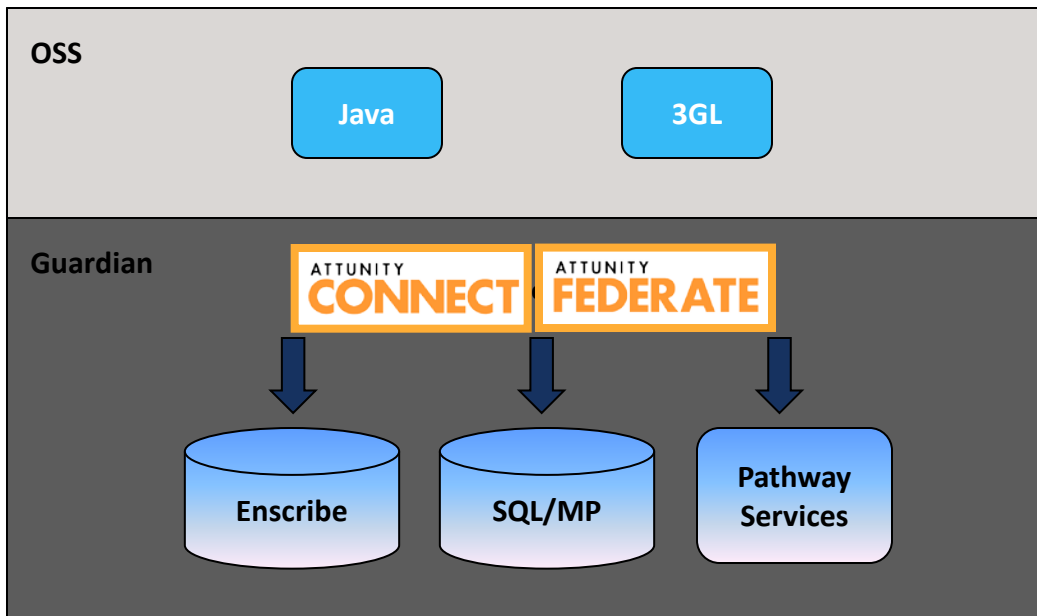
Windows,  
UNIX, Linux



Build composite apps in modern dev tools

Integrate NonStop using modern SOA & EDA tools

HP NonStop



Develop new apps in OSS using Java, C++

Enable 3<sup>rd</sup> party apps to run on OSS

Make NonStop data accessible via SQL & XML

Wrap Pathway as reusable services

# Comprehensive NonStop Connectivity

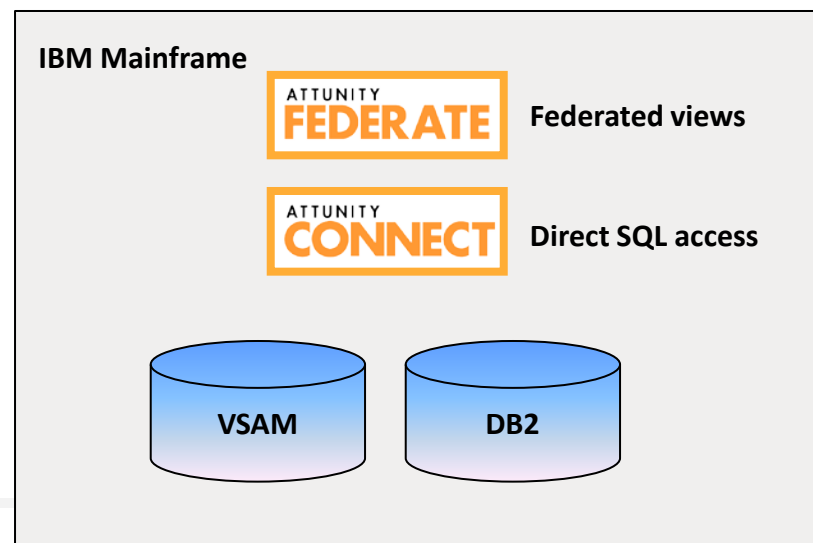
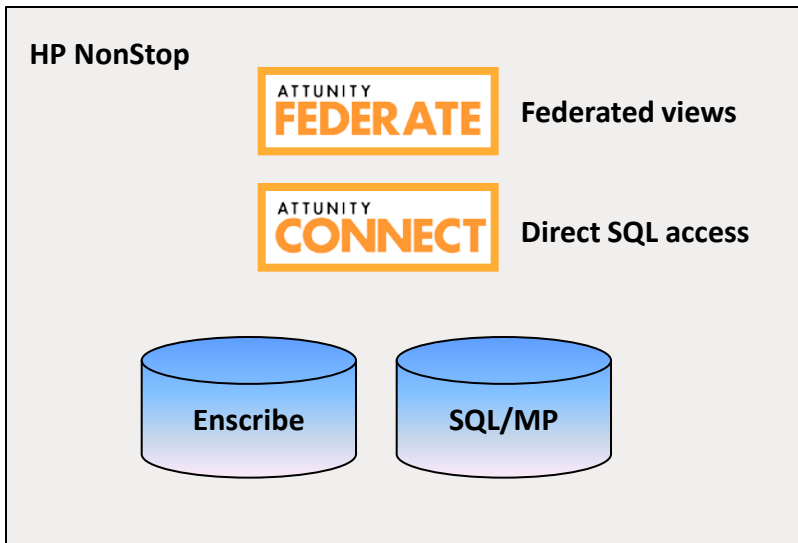
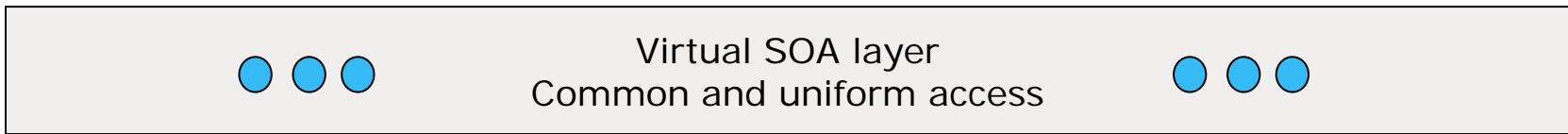
Single install. Single design tool. Flexible licensing.



		Attunity		
		Enscribe	SQL/MP	SQL/MX with MP tables
<b>SQL CLIENTS:</b>	<b>Client Platforms</b>			
<b>ODBC - 32bit</b>	Windows	+	+	+
	Linux	+	+	+
	Solaris	+	+	+
	IBM AIX	+	+	+
	HP-UX (RISC)	+	+	+
	HP-UX (Integrity)	+	+	+
<b>ODBC - 64bit</b>	Windows	+	+	+
	Linux	+	+	+
	Solaris	+	+	+
	IBM AIX	+	+	+
	HP-UX (RISC)	+	+	+
	HP-UX (Integrity)	+	+	+
<b>JDBC</b>	Linux/UNIX/Win	+	+	+
	HP NonStop - OSS	+	+	+
<b>ADO.NET</b>	Windows	+	+	+
<b>OLEDB</b>	Windows	+	+	+
<b>PLUS:</b>				
<b>XML Data Services</b>		+	+	+
<b>Data Federation</b>	On Platform	+	+	+
<b>Data Federation</b>	Cross Platform	+	+	+

# Customer: US Foods

## Build SOA across HP Nonstop and IBM Mainframe



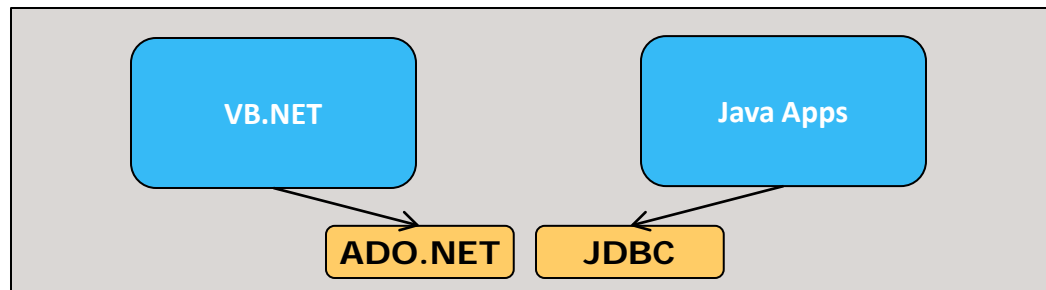
# Customer: Shenzhen Stock Exchange

## Modernize trading applications with .NET & Java

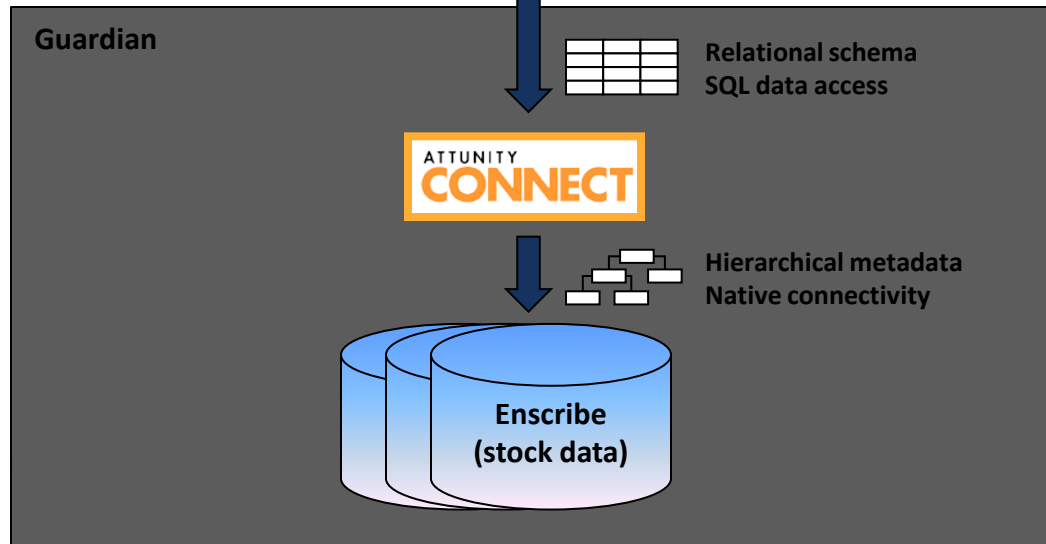
- » Improve broker & investor productivity with modern apps
- » Rapid development while data is reliably managed on NonStop



Windows



HP NonStop



# Agenda

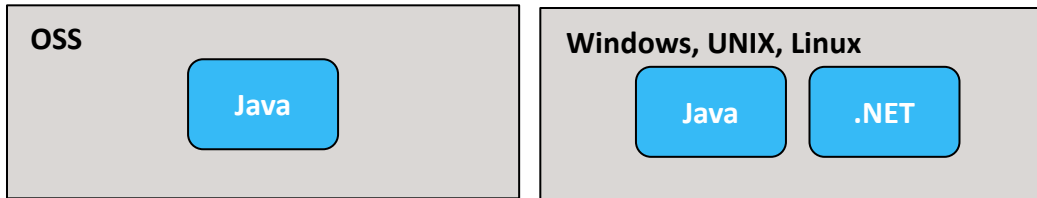
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# Enable Mobile Apps and Integration

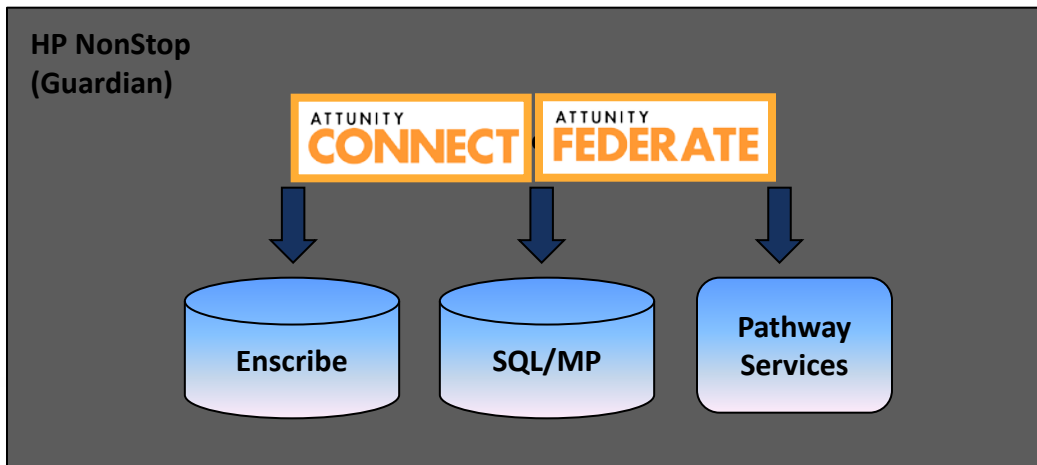
Leverage middleware to enable seamless access



Web Services  
● ● ●



Build applications that service mobile applications (native or web)



Make NonStop data accessible via SQL & XML

Wrap Pathway as reusable services

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» **Summary, Q&A,**

# Attunity & HP = Great Partnership



## » **Trusted Partner and Solution**

- » HP Partner for many years, with reseller agreement in place
- » Used by many NonStop customers (e.g. US Foods, Raymond James)
- » Global, NASDAQ traded, 120 people, 2000 customers worldwide

## » **Enable many solutions customers are looking for:**

- » Big Data Analytics
- » Live Reporting
- » Migration
- » Modernization
- » Mobile Integration



Thank You