The Future of Enterprise IT 2010 – 2020

From Systems of Record to Systems of Engagement



Agenda

• IT Today

- Enterprise IT: Systems of Record
- Consumer IT: Systems of Engagement

The Big Disconnect

- Evolution or Revolution?
- The Forcing Function

Enterprise Systems of Engagement

- What Will Change
- Impact on IT Organizations
- Impact on the IT Industry



Enterprise IT: The Current State Systems of Record are Largely Complete

- Transaction systems for global commerce ...
 - Financials, Order Processing, Inventory, HR, CRM, Supply Chain . . .
 - Mainframes, minis, client-server, PC, Internet-enabled, SaaS

• Drove three decades of investment

- Data centers everywhere
- OLTP and Business Intelligence were the key drivers
- Network seen as a transport mechanism only

• Y2K put the capstone on this trend

- Pulled forward a half decade of investment
- Enterprise IT has had to go through a long "digestive" period
- Focus in past decade has been on *efficiency investments*



IT Innovation: For the Past Decade



Enterprise IT On Hold



Consumer IT On Fire



Redefining IT for Consumers The Digitization of Human Culture

• <u>Access</u>

- Infinite content, no barriers to entry, no barriers to exit
- Communications are any-to-many-to-one
- Social networks, blogs, Skype, Twitter

Broadband

- Pictures and video are the killer apps
- Newspapers and magazines are toast
- TV and radio are being reengineered even as we speak

• Mobile

- PC for the emerging markets
- iPhone sets the bar in mature markets
- Texting, camera, location-based services

This *is* cloud computing What does it mean for the enterprise?

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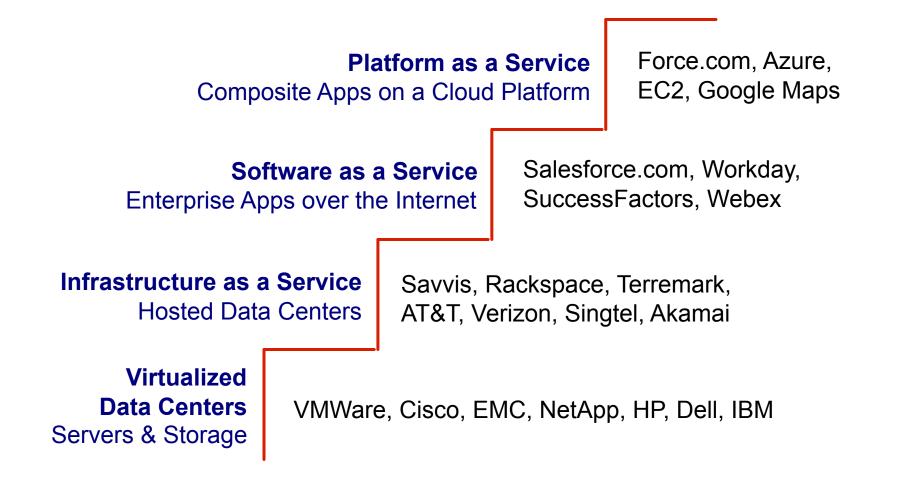
The Big Disconnect

How can it be [am so powerful as a consumer And so LAME as an employee!!??

How disruptive do <u>you</u> think Consumer IT will be to Enterprise IT?

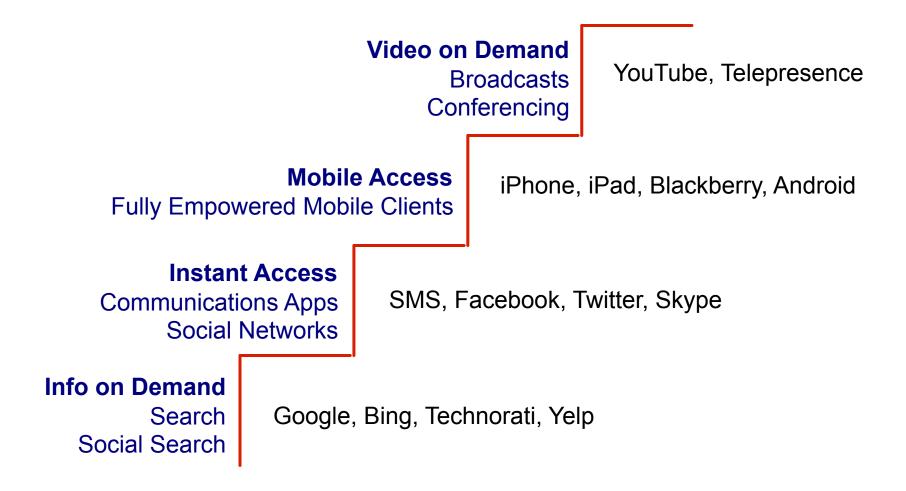


Consumer IT: The IT Organization's View An Evolution in Infrastructure





Consumer IT: The End User's View A <u>Revolution</u> in Applications





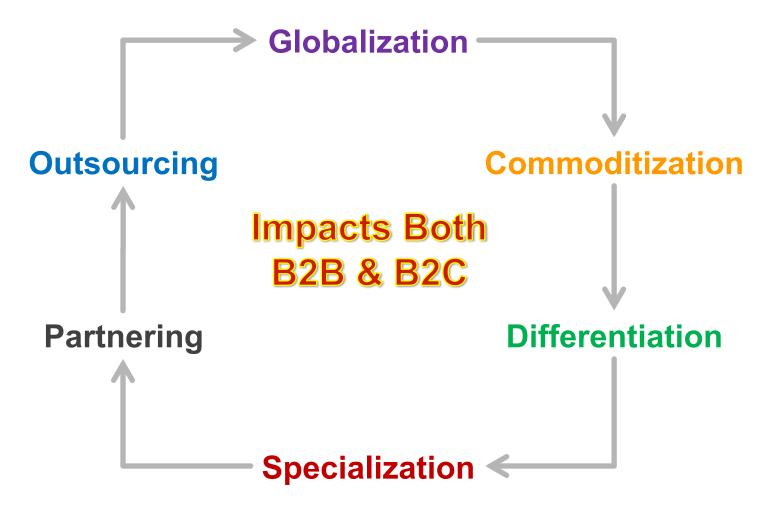
Evolution or Revolution?

- Evolution: The View from the IT Organization
 - Continuation of last decade's trend lines
 - Focus is on **Systems of Record**
 - Significant issues around mission-critical risk
 - Not fundamentally disruptive
- **Revolution: The View from End User Community**
 - New social contract for communication, collaboration, content
 - Focus is on **Systems of Engagement**
 - Ratified by consumer IT, violated by enterprise IT
 - Radically discontinuous with current infrastructure & policies

What will <u>force</u> enterprise IT to commit to systems of engagement?



Global Business Dynamics Will Drive the Enterprise IT Revolution





Impact of Global Business Dynamics on B2B B2B Collaborative Networks

• Increased demand for

- Collaboration
- Relationship Management
- Challenge: To engage with peers globally to solve problems
 - Answers are not in Systems of Record
 - They are in other people's (and often other companies') heads
- Burden falls on the middle of the organization
 - Not front-line workers engaged in transactional workflows
 - Not top executives engaged in strategic issues
- Need to invest in "IT for the middle tier"
 - Communication and collaboration systems
 - Broad and easy access to Systems of Record on demand



Systems of Engagement for B2B

• The Revolution

- Scale collaborative capabilities through systems of engagement
- Spotlight falls on the <u>middle of</u> the enterprise organization
 - Not about getting more efficiency from the bottom
 - Not about getting better strategic views at the top

Path Forward

 Invest in the productivity of knowledge workers and relationship managers

- Enterprise Facebook
- Enterprise YouTube
- Enterprise Twitter
- Global presence detection
- On-demand conferencing
- Telepresence everywhere
- Mobile access to everything
- Global search
- Community content management
- With more <u>revolutionary</u> applications to come



Some Early Use Cases

• New product introductions

- Trouble-shooting global supply chains
- Coordinating global product launches

• Virtual experts

- Beta programs for next-generation technology products
- Telemedicine for consulting physicians

Collaborative management

- Seeing "eye to eye" on the critical issues
- Making decisions in real time



Impact of Global Business Dynamics on B2C B2C Transactional Networks

Commoditization

- Massive volumes but at very low margins
- Margin relief is key for developed economies
- <u>Consumer preference</u> is the critical lever

From Transactions to Interactions

- Battle for preference at the moment of choice
- Offline demographic promotions being disintermediated
- Pressure to make relevant offers in real time
- Answers are in computers or databases
- But they are <u>tiny</u> needles in <u>massive</u> haystacks
- Must find them and activate them before prospect moves on

Real-Time Analytics supplant Business Intelligence



Next-Gen IT for Coordinated Networks

• Next-Gen Point of View

- Innovate through *correlations*
- Scale through *interactions*
- Spotlight falls on <u>metadata</u>, <u>analytics, and real-time</u>
 - Pre-programmed transaction systems are too inflexible
 - Real-time adaptive systems are required

Path Forward

 Invest in realtime analytics, closed loop systems, and machine learning

- Collaborative filtering
- Behavioral targeting
- Personalized transactions
- Location-based services
- Predictive analytics
- Machine learning
- Fraud detection
- Multi-channel engagement
- With more revolutionary applications to come



What Are Some Use Cases?

• Up-selling self-service

- Offers appear in the context of a current transaction
- No competition, ready to close

• Next-generation promotional marketing

- Pay-for-results business model
- Yield is a function of data and algorithm quality and quantity

Next-generation brand marketing

- Digital experiences to amplify brand images
- Digital traces to garner consumer insights



Systems of Record <u>&</u> Systems of Engagement

- Systems of Record create efficiency
 - Impossible to do global commerce without them
 - Focus on cost, quality, and contractual commitments
- Systems of Engagement create effectiveness
 - Address the complexities of global business relationships
 - Focus on time, innovation, and personal commitments
- Systems of Record <u>need</u> Systems of Engagement
 - Troubleshoot the exception conditions
- Systems of Engagement <u>need</u> Systems of Record
 - Access the relevant fact base
- Correct architecture
 - SOEs operating on top of and in touch with SORs
 - This is where the evolution in infrastructure comes in



Implications for IT Organizations

Systems of Record

Command & Control

Transaction-oriented

Data-centric

User learns system

Security is a key issue

Systems of Engagement

Collaborative

Interaction-oriented

User-centric

System learns user

Privacy is a key issue

These are big, big changes Where does one start?



For *Systems* of Engagement, Focus on *Moments* of Engagement

- Focus on the critical few moments of engagement that determine whether you win or lose with your strategy
 - Product Leadership: Moments of adoption
 - Customer Intimacy: Moments of trust
 - Operational Excellence: Moments of risk
- Focus on the people in your organization that are present in these moments
 - Product Leadership: Field Engineering, R&D
 - Customer Intimacy: Relationship managers, Customer Support
 - Operational Excellence: Supervisors, Trouble Shooters
- Focus Systems of Engagement on meeting the needs of these people in these moments—*and hurry*!

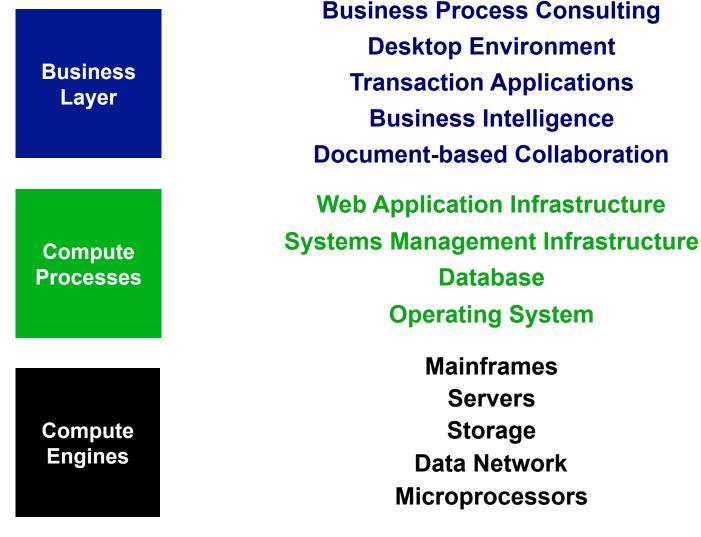


Implications for the Industry

The Morphing of the Stack!

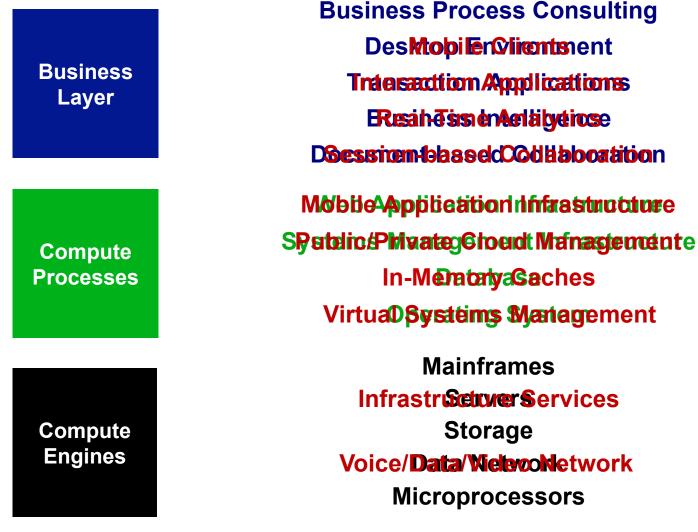


The Traditional Systems of Record Stack





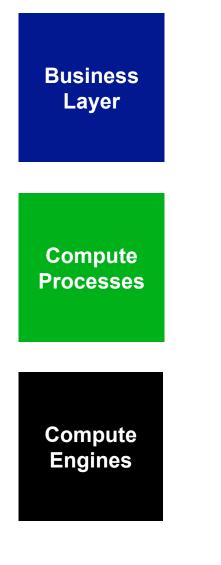
The Morphing of the Stack



Microprocessors



The New Systems of Engagement Stack



Business Process Consulting Mobile Clients Interaction Applications Real-Time Analytics Session-based Collaboration

Mobile Application Infrastructure Public/Private Cloud Management In-Memory Caches Virtual Systems Management

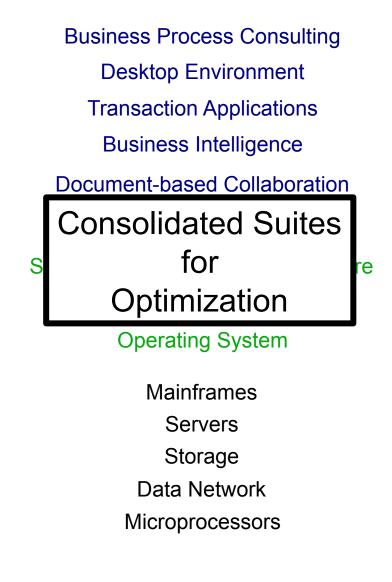
Infrastructure Services

Voice/Data/Video Network Microprocessors



Two Different Trajectories

Data-Center-Centric Stack



Network-Centric Stack

Business Process Consulting Mobile Clients Interaction Applications Real-Time Algorithms Session-based Collaboration Mob Best of Breed ture for ment Differentiation Virual Systems Management

Infrastructure Services

Voice/Data/Video Network Microprocessors

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Recap

- IT Today
 - Enterprise IT: Systems of Record Consolidate & Optimize
 - Consumer IT: Systems of Engagement Invent & Invest

• The Big Disconnect

- Evolution or Revolution? Both
- The Forcing Function? *The Dynamics of Global Business*

• Enterprise Systems of Engagement

- What Will Change? Invest in IT for the Middle. Analytics for the Edge
- Impact on IT Organizations? Revolution & Evolution
- Impact on the IT Industry? Another Generation of Leaders





