

August 22, 2001





# 2001 2002 2003 2004 2005 2006 2007 2008 2009

# **Discussion Topics**

The e-Business Environment

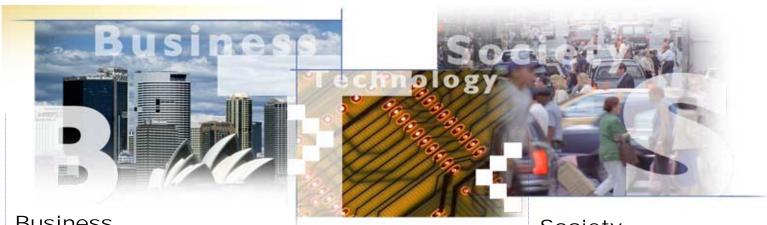
AT&T/HP e-Business Strategic Direction

AT&T e-Business Competencies & Capabilities

**Client Benefits** 



# Major Forces Affecting **Business** Success **Today**



### **Business**

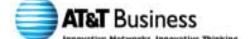
- e-Commerce
- Pressure on profit margins
- Cross-industry consolidation
- Service business dominance
- Deregulation
- Globalization
- Acquisitions and mergers

### Technology

- Security
- Legacy networks, infrastructure & Integration
- Scalability and reliability
- Distributed networking
- XML and Portals
- Storage

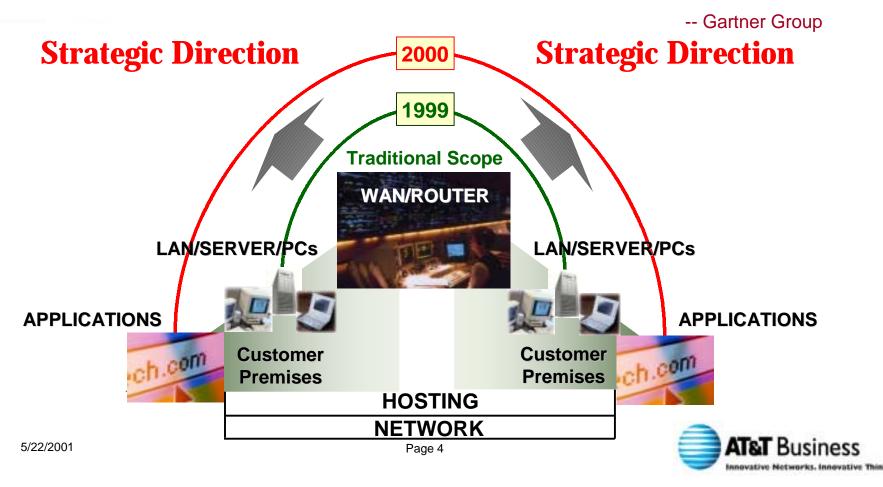
### Society

- 24-hour customers
- Self-service access
- Speed and instant gratification
- Personalization and customization
- Convergence of work and home
- Capacity on demand



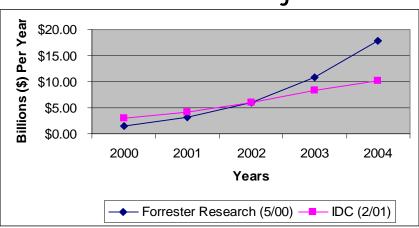
# E-Business **and** AT&T's Strategic Direction **in the** New Economy

■ E-Business Definition: An Internet technology-enabled transformation that dramatically increases the efficiencies of current business processes, revolutionizes external relationships and redefines business on a global basis



## E-Infrastructure Innovation & Growth

### Market Size Projections



IDC: Custom Hosting, e-Bus Mgmt. & Security

Forrester: Custom & Managed Hosting

### **Target Market**

- **Enterprise Clients**
- **Complex Environments** 
  - Multiple Applications
  - *∨* Security Requirements
- **Application Centric** 
  - ∠ Extranets (B2C, B2B, B2E)
  - **WWW Presence**

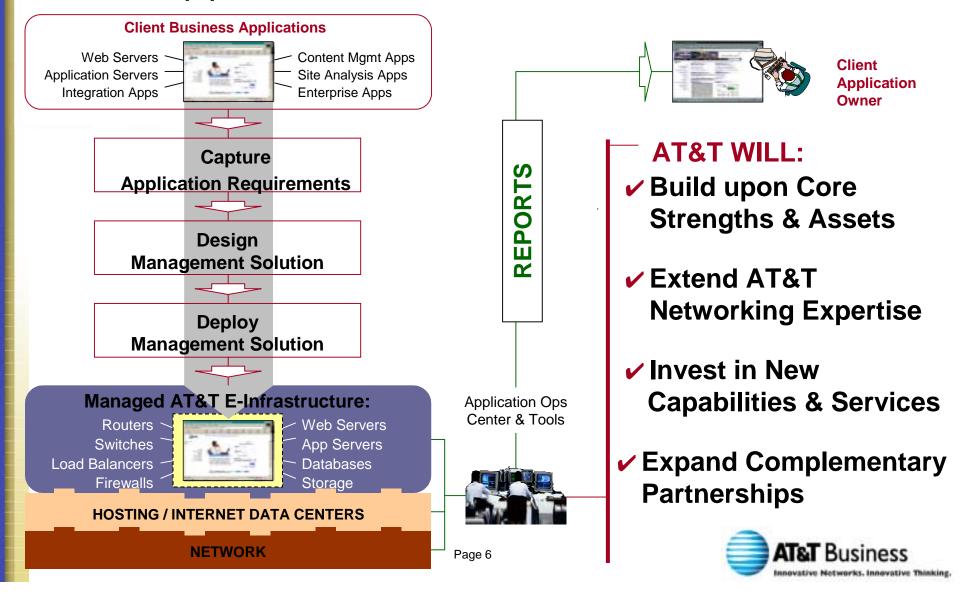
### AT&T Advantages

- Platform Investment of \$200M+
- 6+ years Managed Services Experience
- Integrated Tools, Instrumentation & Process
- **Client-Intimate Servicing Model**
- Direct Connection to OC192 IP Backbone

- 500+ M Managed Elements
- Global Reach of Over 100 Countries Worldwide
- 1.2M+ Internet Users Daily
- Growing to 23 IDCs worldwide with 5M sq. ft.

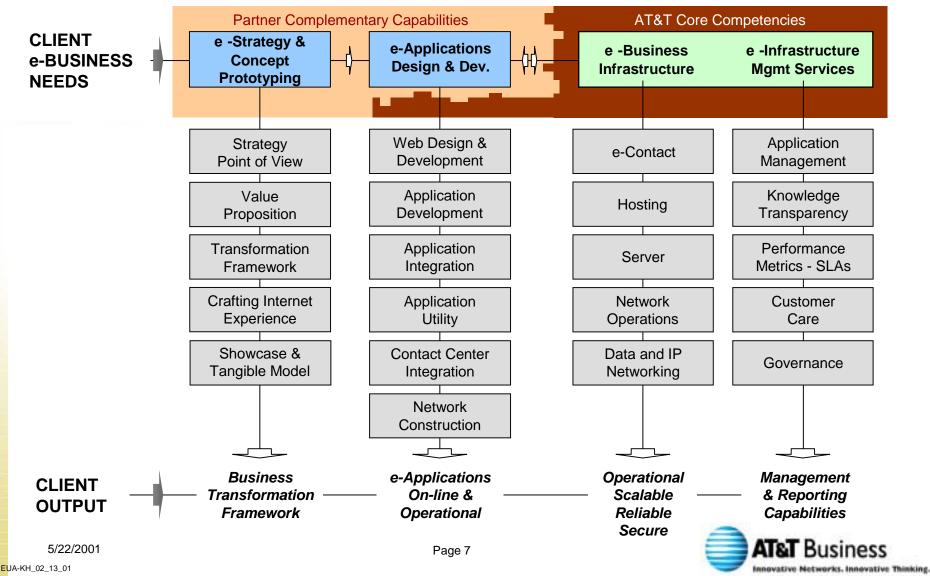
AT&T Business

# **The Integration of Your**Application & Network



# Customer Needs and AT&T 's Strategic Approach in the "New Economy"

244.2 209.3 123.1 124.1 241.1



### 199,4 241,1 244,2 209,3 129,1 124,1 241,1 241,5 215,2

## Goals of the AT&T/HP Solutions Alliance

# Leverage key strengths of AT&T and HP to create e-Solutions that help businesses transform the way they do business

### For the client:

- Provide networked application infrastructure reducing clients' capital investment
- Rapidly and reliably deploy, enabling client faster time to money
- Supply teams of skilled professionals, freeing client to focus on core business and from hiring challenges
- Deliver predictable performance using Service Level Guarantees supporting end users for "always on" service

### For AT&T and HP:

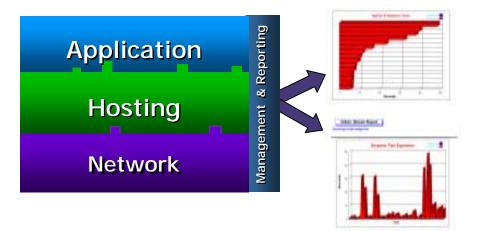
- Drive incremental revenue for AT&T, HP & common channel partners
- Advance positions of both companies as innovators of e-Business



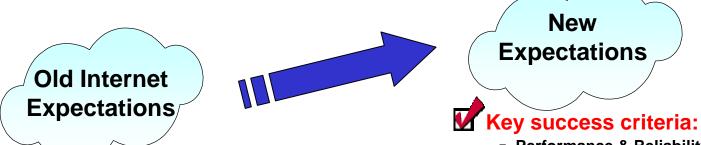
## Build an e-Infrastructure & Success Criteria

### Infrastructure characteristics:

- High-performance, high availability
- Capacity on demand to support applications
- Connectivity wherever and however your users need it
- Capability to leverage your existing network assets



The expectations placed on the Internet are moving toward the requirement of a new set of criteria for e-Infrastructure providers.



- **Best-effort**
- No service levels
- **Socialistic**

- Performance & Reliability
  - Management Services
  - **Professionals**
- Scalability
- Partners & Alliances
- Security
- Speed



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# What AT&T & HP Bring to the Alliance

### **Hewlett Packard**

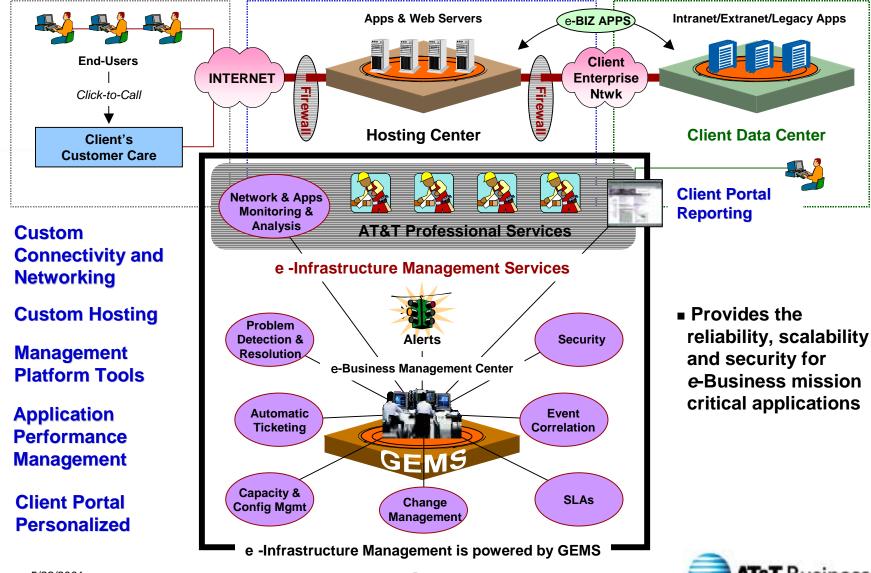
- High performance, Highly available,
   Internet critical hardware
- Best of breed software
- Applications management tools
- Professional services for application design, development, integration, deployment and ongoing support
- HP brand name and reputation for quality

### AT&T

- World class Data Centers
- Global Internet backbone
- Networking management capabilities, tools and platforms
- Professional services for design architecture, implementation and lifecycle management of the Internet environment
- AT&T brand name and reputation for quality



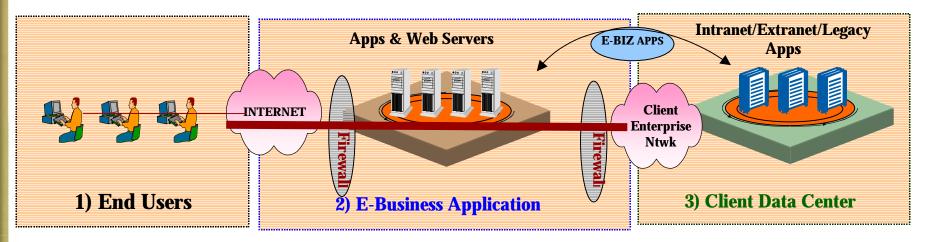
### AT&T e-Infrastructure Solution



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# AT&T and HP Simplify the Complex & Reduce Total Cost of Ownership



### Integrate and Manage Three Environments

#### **Client Challenges**

- Capital Investment
- Design, build and run models and staff
- Time
- Technology expertise, refresh and evolution
- Integration into current business practices and infrastructure

#### **Client Benefits:**

- Reduced capital investment
- Simplified applications implementation & management
- Quicker time to money
- Always on infrastructure and processes
- Single point of accountability
- Life cycle management and support





# AT&T Ultravailable<sup>™</sup> Solutions



Focused on your complex requirements for highly reliable, secure solutions with near 100% availability.

- Client-Defined SLAs
- Optical Networking
- Managed Storage
- Fail-Over Computing
- Global Management and Monitoring
- Professional Services

We deliver mission-critical, always-on availability.



# AT&T Ultravailable<sup>SM</sup> Suite **Global Monitoring &** Management Uttravailable<sup>SM</sup> Computing Ulravailable<sup>™</sup> Data **Client** AT&T Location **Ultravailable<sup>SM</sup> Broadband Network Centers** 5/22/2001 Page 14

# **e-Business** Professional Services



Delivering value through the creation, transformation and management of solutions that 'web enable' clients

- e-Business Assessment, Architecture, Design & Deployment
- e-Contact Center Solutions
- Remote Access Consulting
- Knowledge Management Solutions
- Network Security Assessment, Site Buildout and Stress Testing
- E-Merging Services, Managed Wireless, Digital Marketplaces



# AT&T e-Business Solutions Differentiators: People, Process, Tools & Technology

Our e-Business integrated solutions are powered by the People, Process, Tools & Technology provided by our:

### **Global Enterprise Management System (GEMS)**

- Suite of best-in-class applications in one system
- End-to-end support for networking needs
- Centralized database of your entire network
- "Smart" trouble management

### **Global Client Support Centers**

- State-of-the-art global management centers
- 24x7x365 monitoring & management
- Proactive & predictive technical support
- Extension of clients' IT infrastructure
- Monitor a full suite of environments





### **PEOPLE**

- Virtual Client Teams
- Solutions Professionals



#### **PROVEN PROCESSES**

- Problem Detection,
- Root Cause
- Impact Analysis
- Change Management

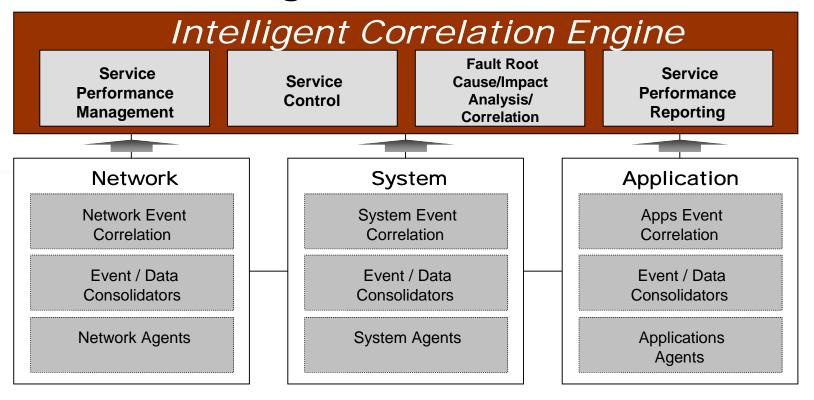


### **TOOLS & TECHNOLOGY**

- GEMS Platform
- e-Bonding



# End-to-End Management Services

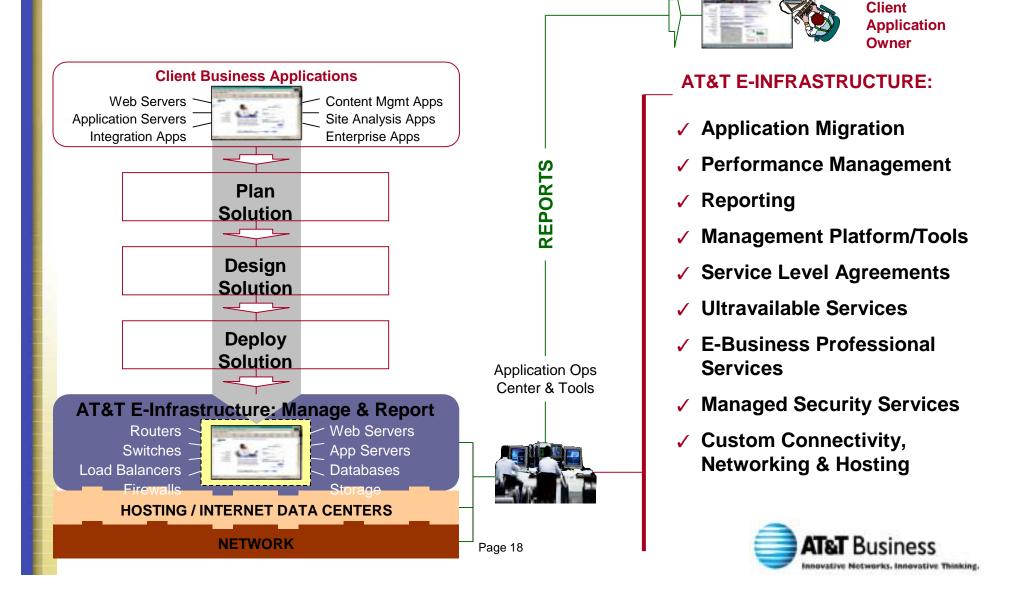


- ■AT&T will capture, consolidate, correlate and meaningfully process integrated E-business infrastructure (applications, systems and network) information that will provide an end-to-end, real-time view of the end-user experience
- ■AT&T will design management policies together with the customer to support customer's enterprise business requirements and manage them on a real-time basis

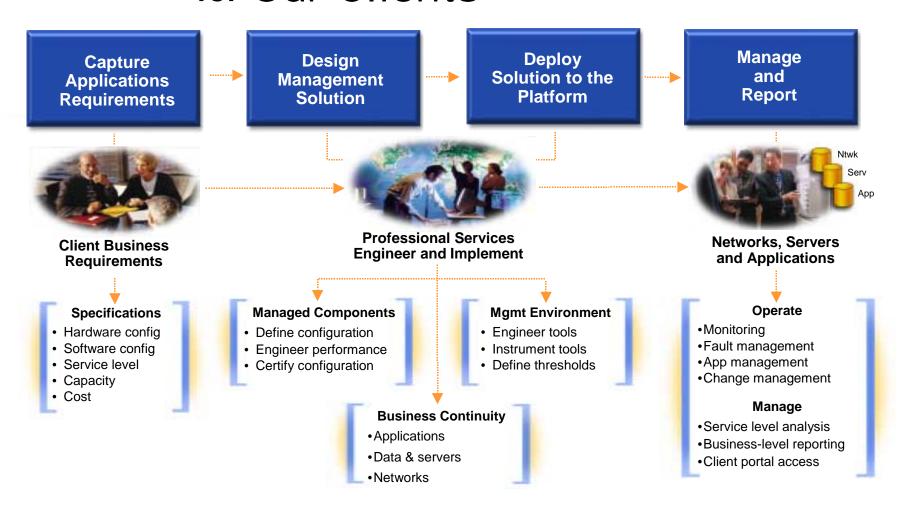
AT&T Business
Innovative Networks. Innovative Thinking

# Integration of Client's Application

& Network

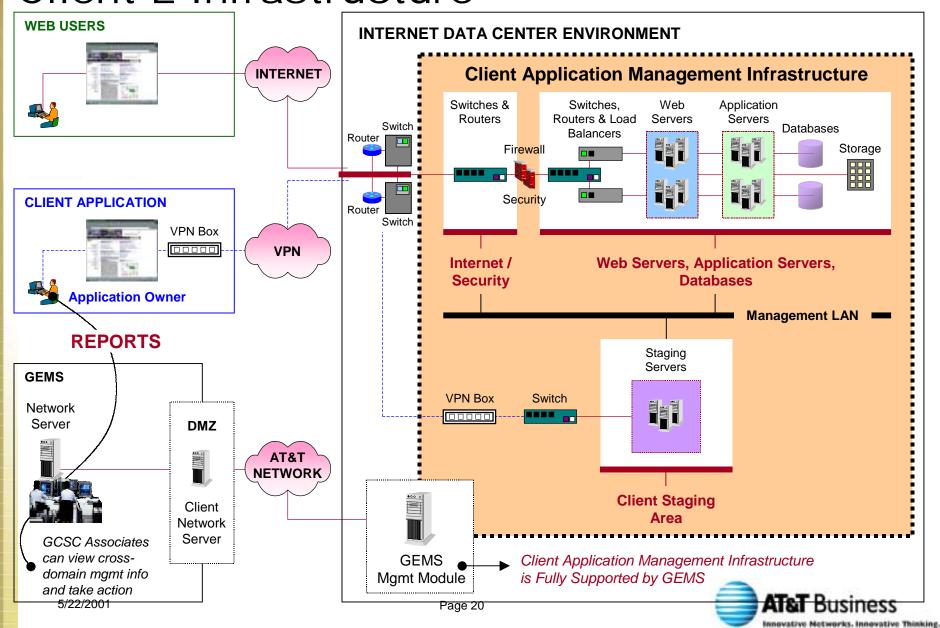


# What We Do for Our Clients





## Client E-Infrastructure



# SLAs ensures Performance Accountability

### **CLIENT EXPECTATIONS: PREDICTABLE PERFORMANCE**

# PERFORMANCE REPORTING

- **End User Response Time**
- Page Load Times
- **■** Browse Times
- **Server Request Times**
- Resolve Times
- Page Status
- Referring URL
- Request Verification Time
- **Total Response Time**



#### PERSONALIZED PORTALS

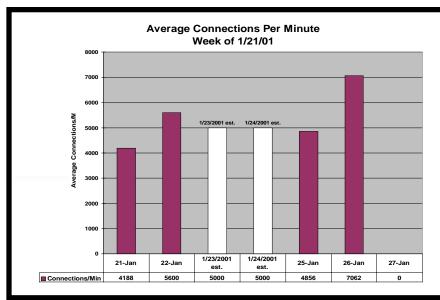
- Real Time Reports
  - > On all above metrics
- Historical Reports
  - Daily E-Commerce Transaction
  - > Daily Web Application
  - Monthly Response Time
  - Monthly Response Time Threshold

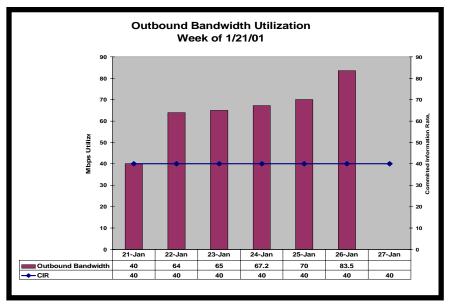
# PERFORMANCE LEVEL COMMITMENTS

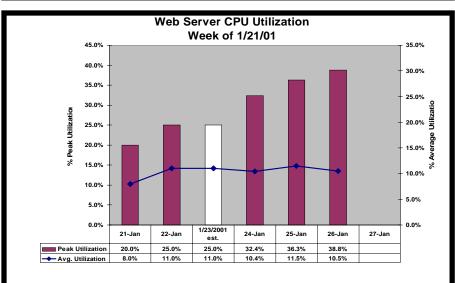
- **■** Transaction
  - > Transaction Availability
  - > Transaction Resp. Time
- Server / Application
  - > Availability
- Network
  - Availability
  - Latency
  - Packet Loss
- **■** Resolution Management
  - > Time to Respond
  - > Time to Cure

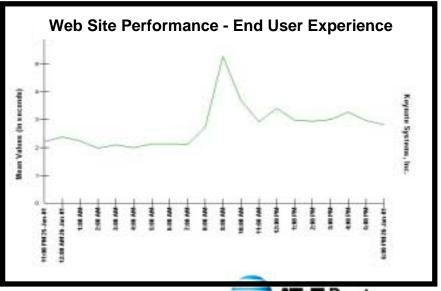


# Application Performance Reporting









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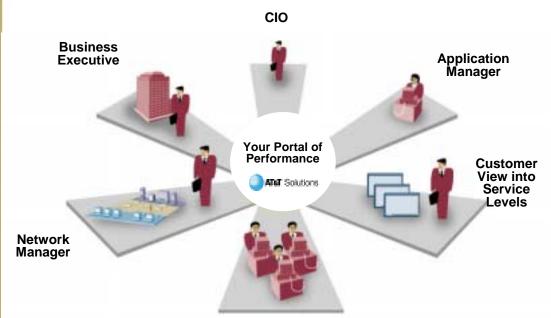


## Performance & Cost Improvement

Metric	In-Sourced	AT&T Hosted	Improvement
End-User Response	3 - 5 seconds	< 2 seconds	30% - 60%
Time	3 - 3 Seconds	< 2 seconds	30 /8 - 00 /8
Bandwidth	79Mbps max	115Mbps max actual,	45% - 150%+
Utilization	(upper limit)	200Mbps upper limit	
Page Views / Mnth	36 M	68 M	89%
Visits Per Month	3 M	5.7 M	90%
Page Views Per Day	1.2 M	2.2 M	83%
Visits Per Day	97K	186K	92%
Average Web Server CPU Utilization	55%	12%	78%
e-Infrastructure	NT only	Converted to Win2000	e-Business Professional
	No SQL cluster	SQL cluster	Services
Security	1 zone	Multi-tiered firewalls and zones of security	Increased
Performance Reports & SLAs	Typical WebTrends reports	Additional SLA reports	Increased
Change Management	On-demand, more than 100 MACs per month	Scheduled changes, managed to fewer than 100 MACs per month	20%+ improvement in productivity
Headcount	4 FTE	0.5 FTE	88%
Cost Per Year	\$1.6M	\$1.3M	20% - 40%+

AT&T Business
Innovative Networks. Innovative Thinking.

## Client Portals: Window to Management Services



Network Operations Center/ Customer Care/Help Desk



# PERSONALIZED TOOLS & INFORMATION

- **■** Enhanced Personalization
- Publishing to Portal
- Service Line Information
- Collaboration Tools
- Real-Time Alerts
- Escalation Paths
- e-Trouble Tickets
- e -Network Maps
- e -Performance Reports
- e-SLAs
- e -Ordering & Provisioning for all Clients
- e -Inventory
- e-Billing
- e-Contracts
- Stewardship Reporting



### The Home Depot

\$19B Home Improvement Chain

### **Challenge:**

To improve customer service and better control inventory and labor costs while providing long term scalability with an open systems architecture



Migration from proprietary DG systems to an open systems client/server architecture

- Several hundred HP 9000 Business Servers
- Informix database/customized store solutions

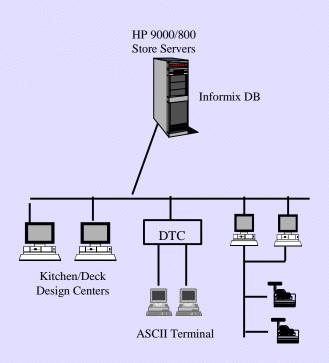
Open store architecture for store systems integration

#### **Benefits:**

- Quicker check-out due to ISP and front-end processor sharing data for customer credit checks
- Improved market basket analysis due to data availability for analytical processing of information
- More efficient cabinet design/paint mixing/matching



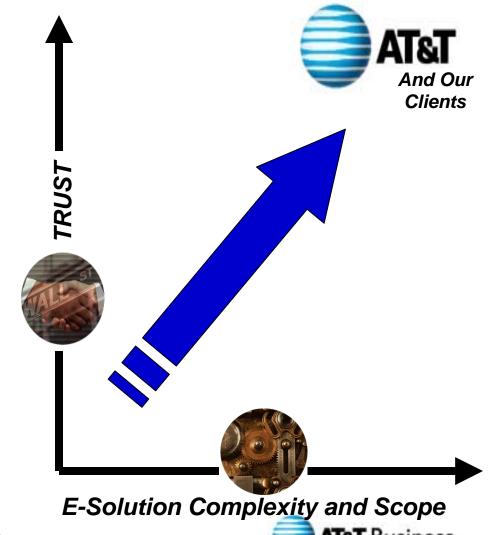
Retail Industry



# **AT&T:** Your Trusted **E-Infrastructure**Partner

- Trust main currency of the business
- SLA's in plain business language
- Management Platform
- Remote Monitoring
- Five Key Services:
  - Security
  - Customer Care
  - Reporting
  - Testing
  - Storage
- Next Challenges:
  - Scalability
  - Storage on Demand
  - Servers on Demand

Interactive Week.com - Feb 13, 2001



## AT&T Delivers.....

Predictable
Performance for
Client's
Transactive
Environment

Fully Managed Services for Improved ROI World-Class Network Capabilities



Experienced
Networking
Professionals to Plan,
Build and Manage
Integrated Solutions

Optimal
Experience for
Client's
End-User

Proof of Service through Service Level Agreements

