



i n v e n t



Using Management Tools to Manage Your Services Providers

Eric Buatois

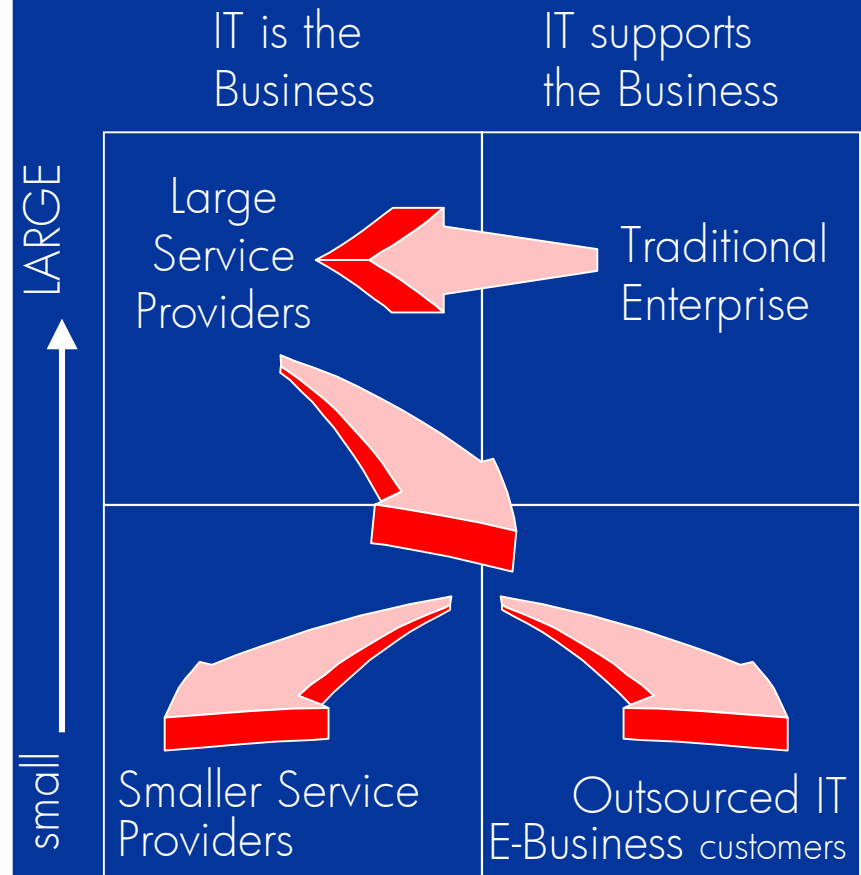
General Manager
HP Communications Solutions

The Changing Enterprise

Yesterday's enterprises invested in IT to support their business

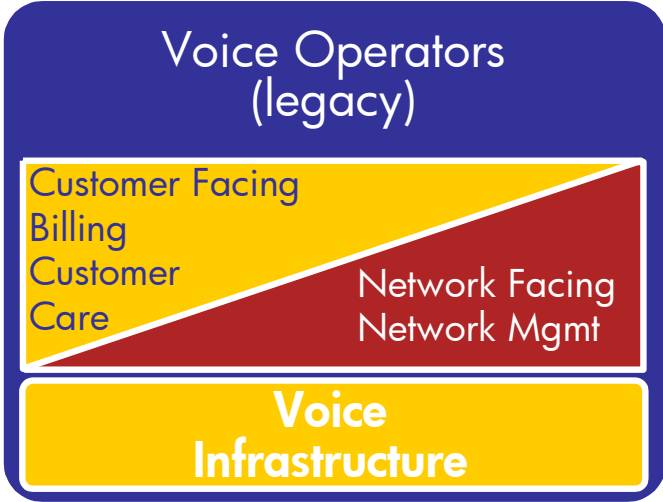
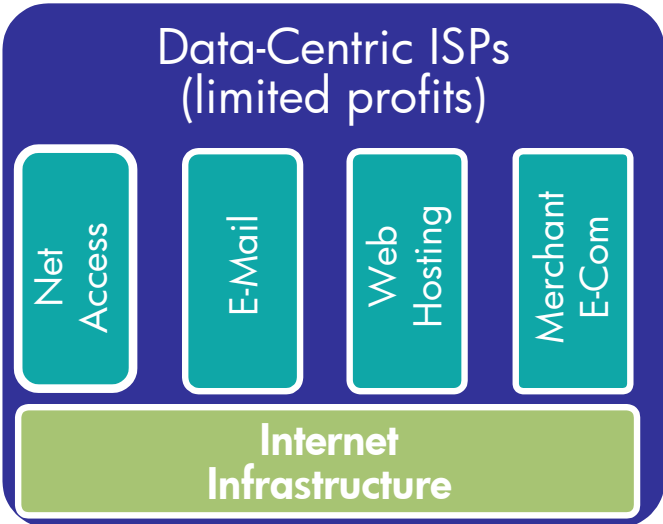
Today, those enterprises are providing that IT as a service to smaller enterprises and end customers

Today's enterprise management information will be offered as a service



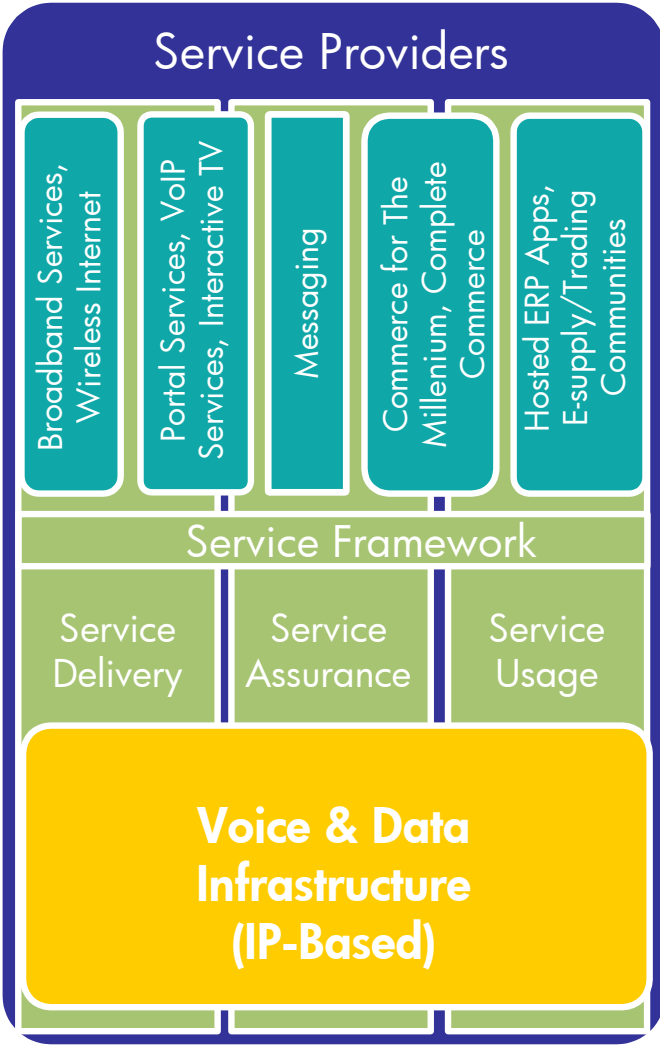
How are Service Provider offerings Changing?

Today...



- Telecoms moving voice NWs to IP & broadband
- Rapid emergence of new independent IP-based service providers
- Enterprise moving to internal SP model
- Enterprises outsourcing applications & business processes to Application and Business SPs
- Continuing evolution of ISVs to ASPs; mobile apps also emerging
- Sales and support for SP sol'ns to small-medium businesses
- Consumer appliances moving to a .net portal services model
- Wireless is a key driver

Re-engineering...



Who are Service Providers Serving?

E-enterprises ...

Consumers ...

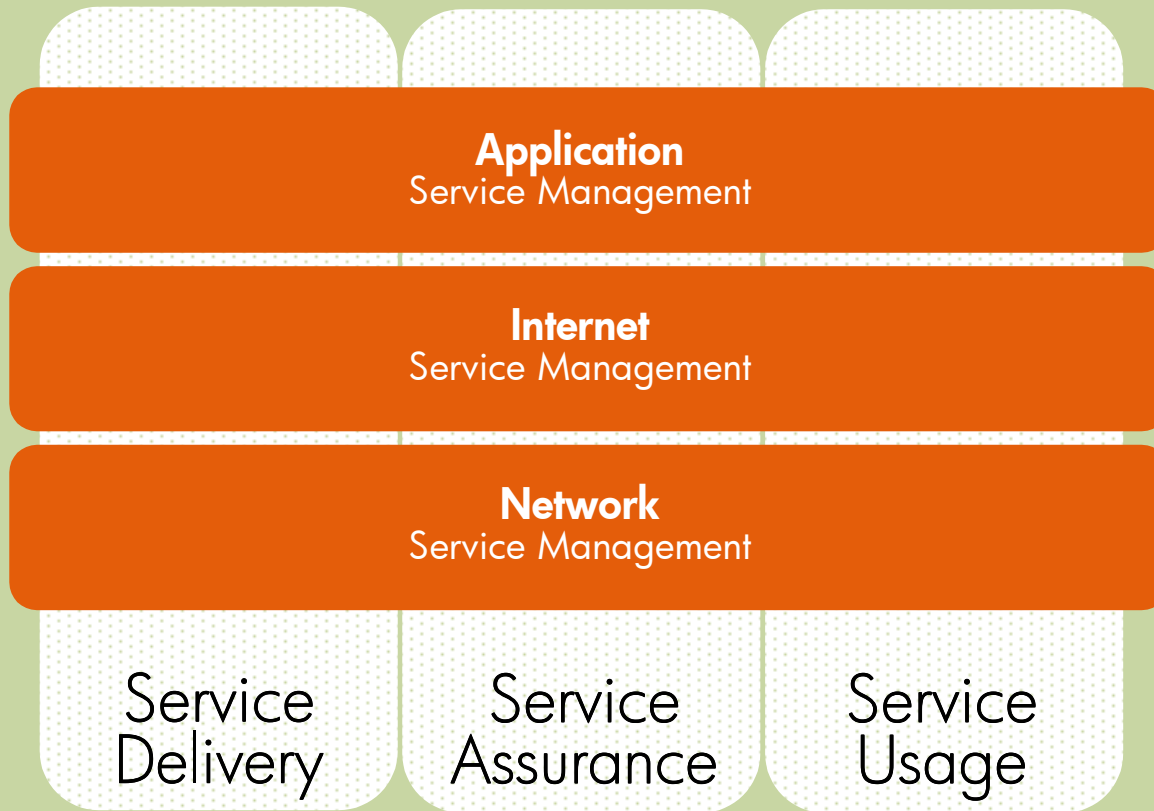
Other Service Providers ...
and You

All who demand:
High Quality, Readily
Available and Low Cost...

Services On Demand

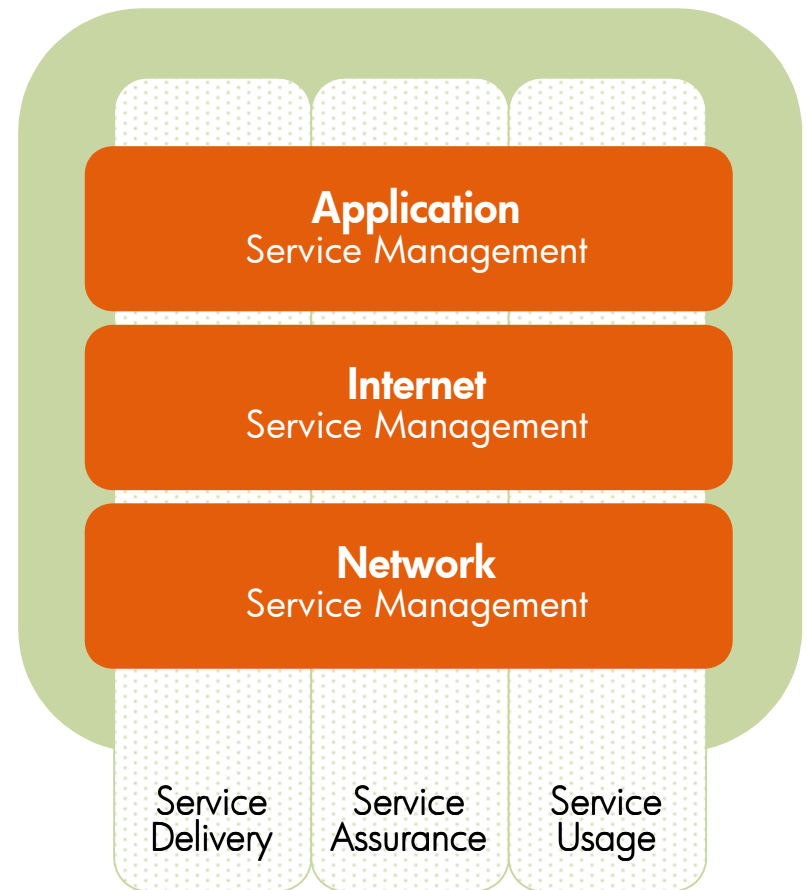


Integrated Service Management



Service Provider Types

- **Full Service Providers**
 - Provide services at all levels
 - Must provide a comprehensive, well-integrated management solution
- **Specialized Service Providers**
 - Provide focused solutions
 - Must provide integration with upstream and downstream providers



Integrated Service Management

Why Outsource Services?



Reduce costs

Increase offering

Outsourced Services Require ...



**High Reliability,
Availability and
Performance**

... services need to
be available for users
and meet quality
expectations

Outsourced e-Services Must Be Reliable

300 MESSAGES DELETED

On Sunday, February 20, 300 messages were inadvertently deleted from a mail server. Unfortunately, IT Services was unable to identify or recover any of these messages. The deleted messages had been sent Saturday evening or Sunday morning.

We recommend that you resend any messages originally sent between Saturday evening and Sunday morning, February 19-20. We apologize for any inconvenience this may have caused.

Outsourced Services Require ...



Visibility

A secure and customized view of an outsourced environment including ...

- Secure and customized view of an outsourced environment
- Consolidated service monitoring information
- Information personalized for customers
- Branded and customizable look & feel

Visibility enables Service Providers to...

- Increase revenue growth and customer loyalty via service differentiation
- Establish new channels for customer care and communication



Visibility is a Key Concern

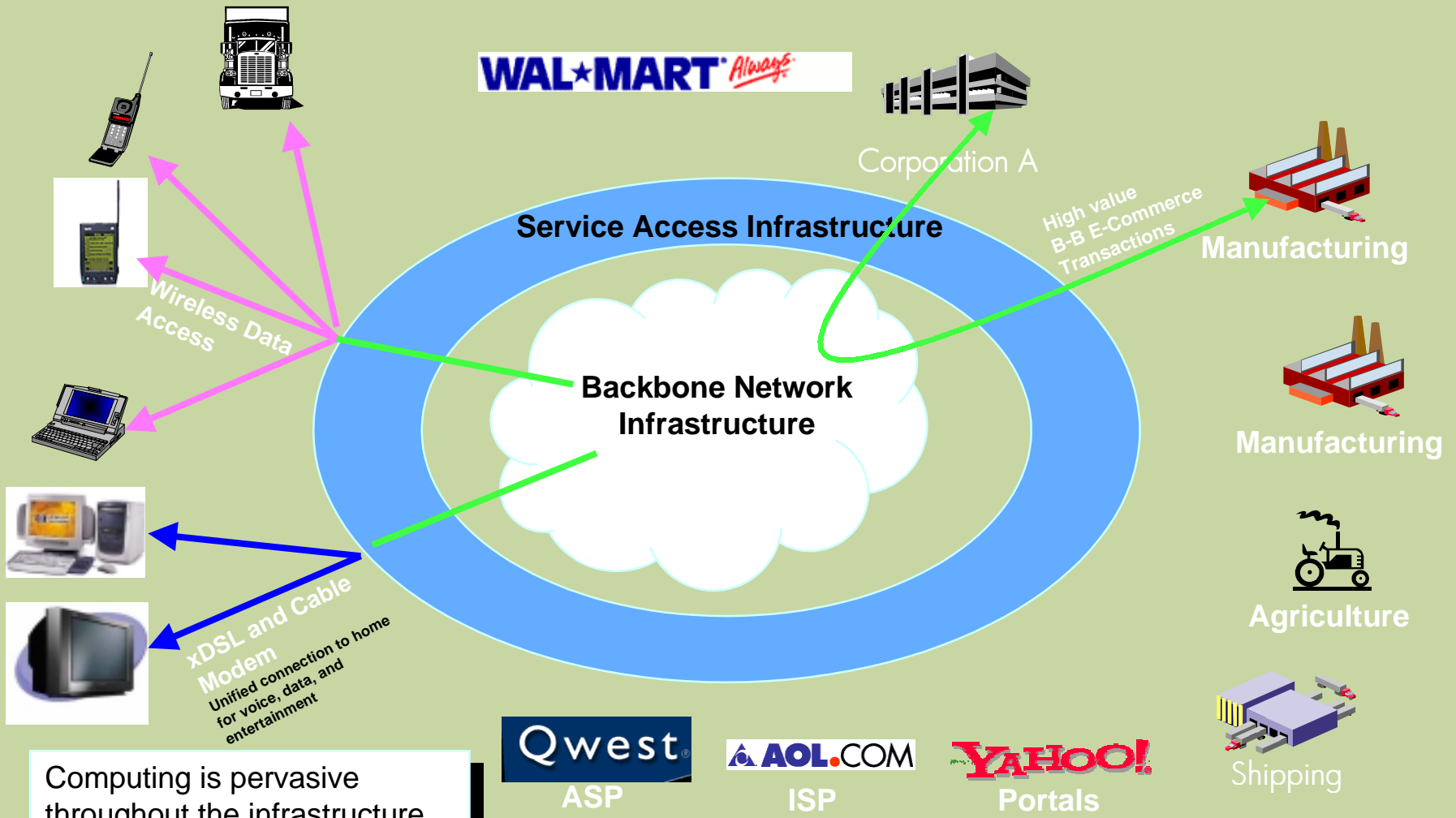


January 13th, 2000

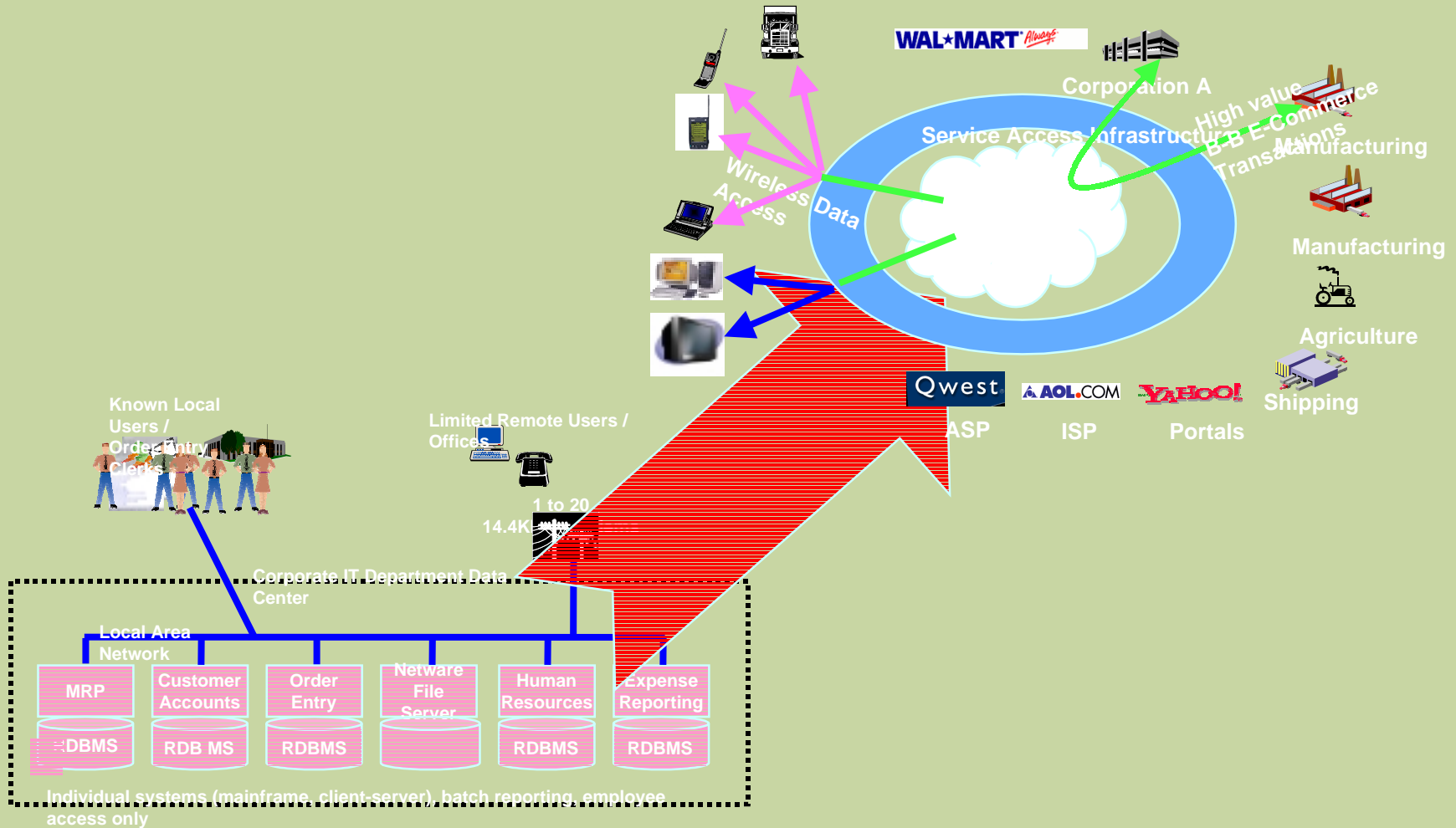
"I found [my service provider] reliable, but I still thought our service went down more often than it should," said Mark Willhite, network engineer with Rollins Leasing Corporation in Wilmington, Delaware. Rollins recently switched its frame relay service [to another ISP], in part because they "didn't provide us the monitoring tools we needed," Willhite said. "Our concern was that if the circuit went down, we wouldn't be notified as quickly as we thought we should. We expected a phone call, but there would be no call."

Full Article: <http://www.internetwk.com/lead/lead011300.htm>

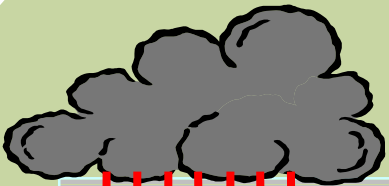
e-Data Center 2003-2005



Evolving the Enterprise Data Center to an e-Data Center

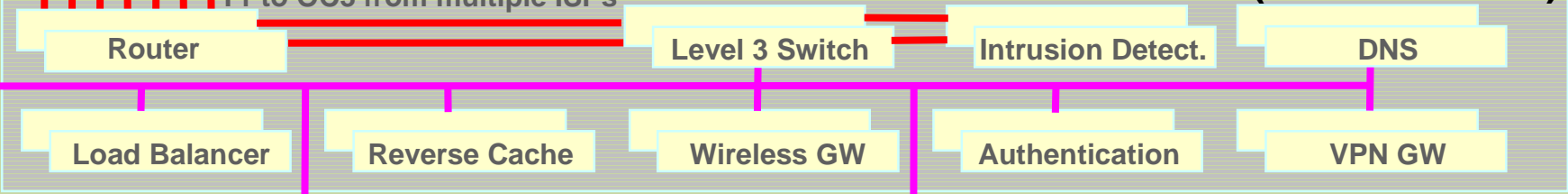


XSP e-Service Data Center

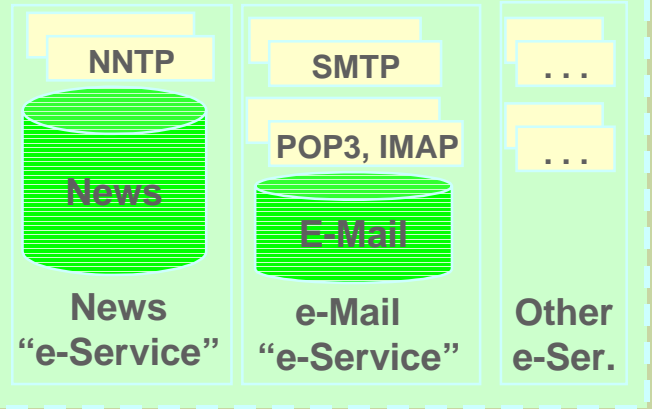


T1 to OC3 from multiple ISPs

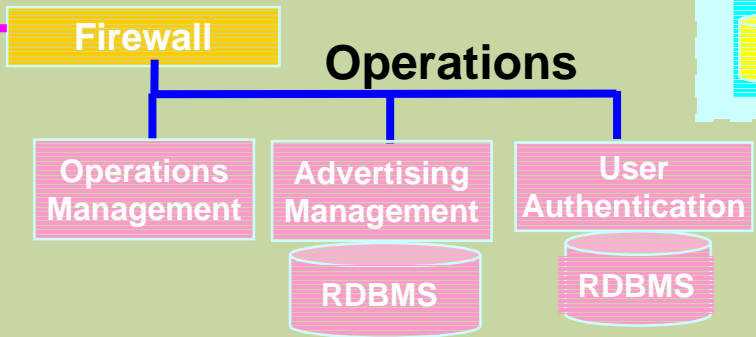
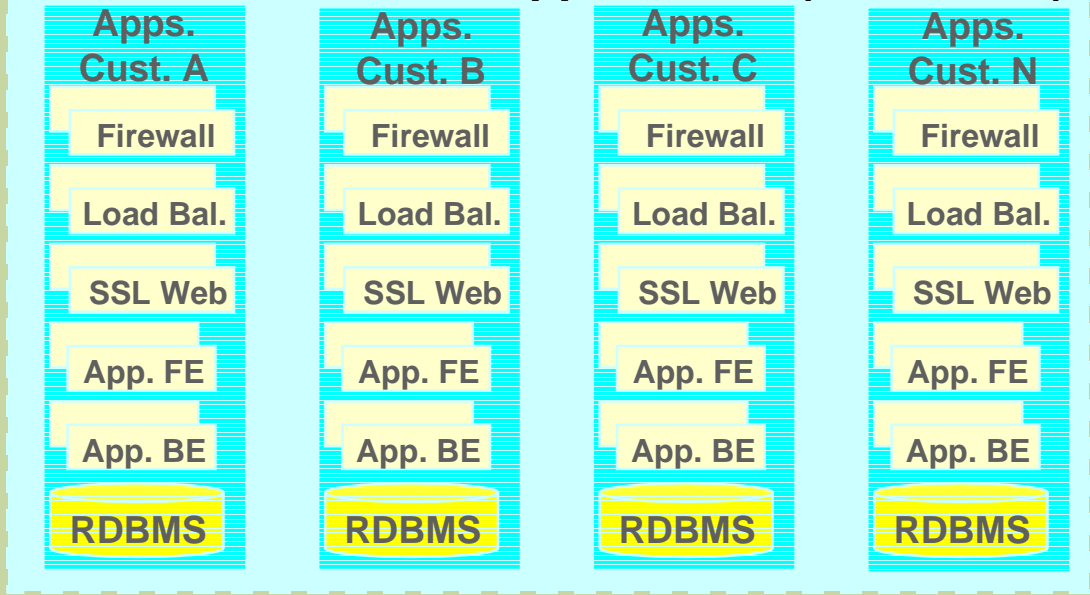
Access (Infrastructure)



Basic ISP e-Services

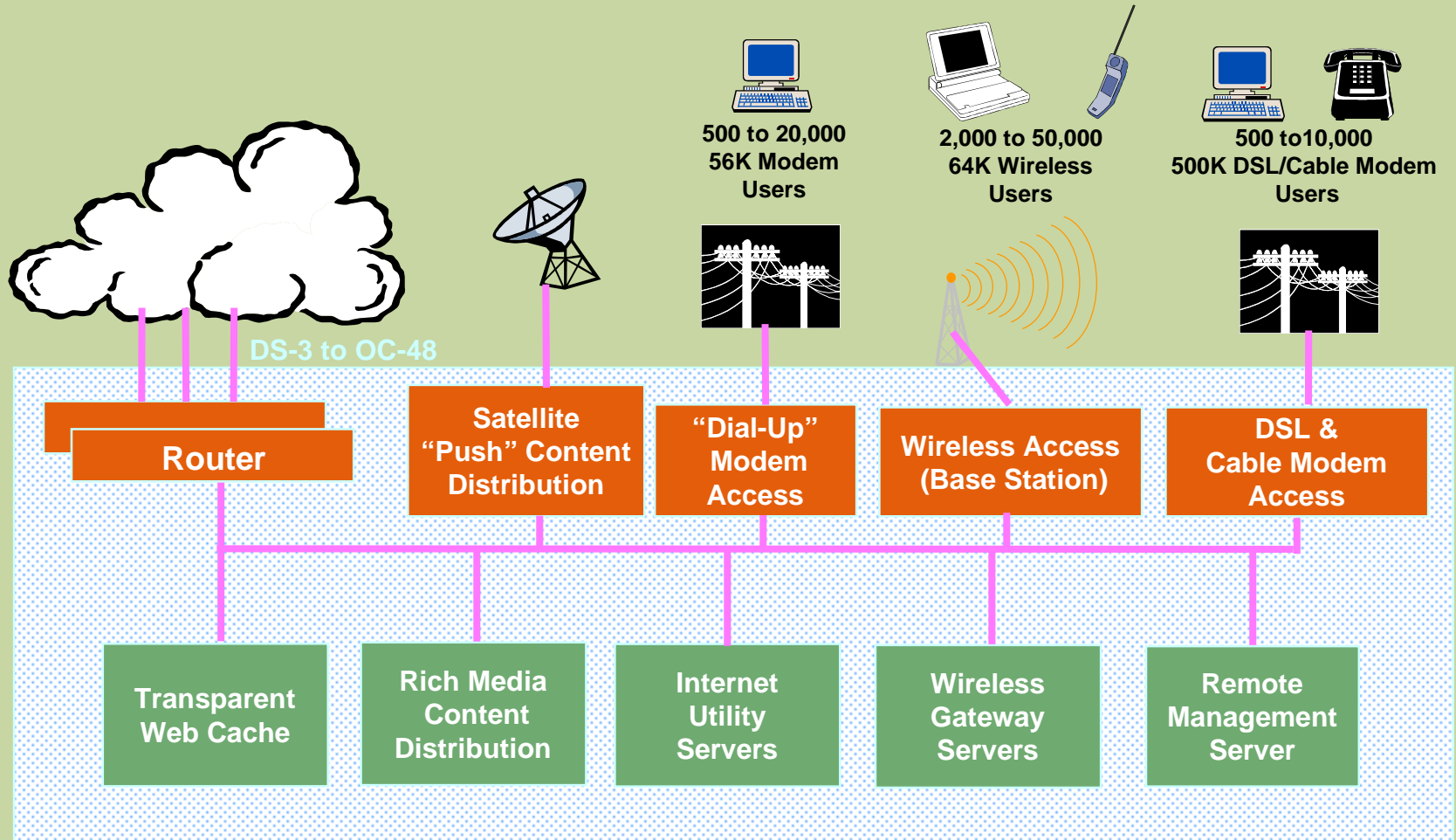


Hosted Applications (e-Services)

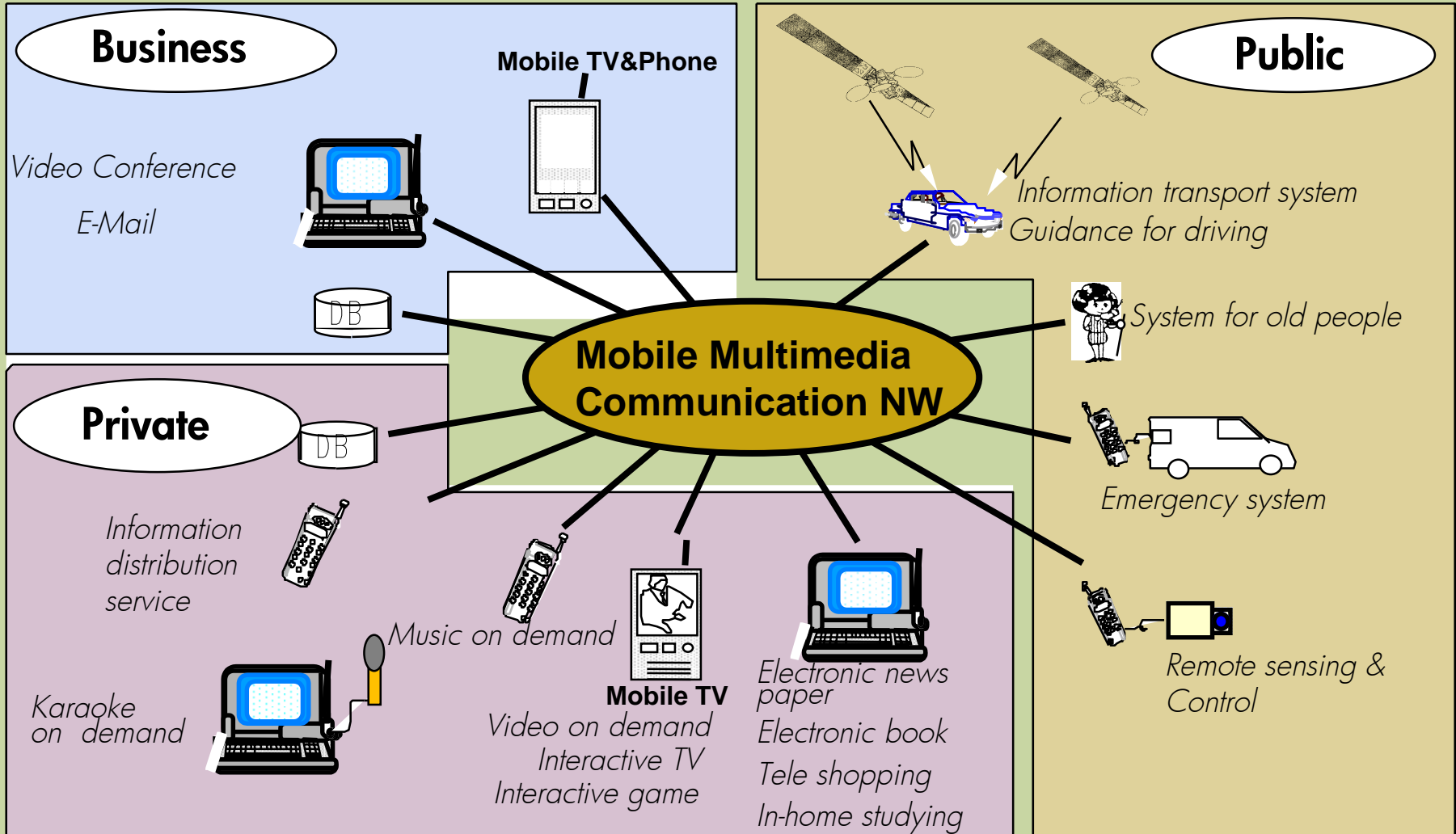


ISP Pop Data Center

Distributed: Located At Local Telco Exchanges



Mobile Multimedia Services



Disruptive Technologies

Key Inflection Points Driving e-Services Deployment

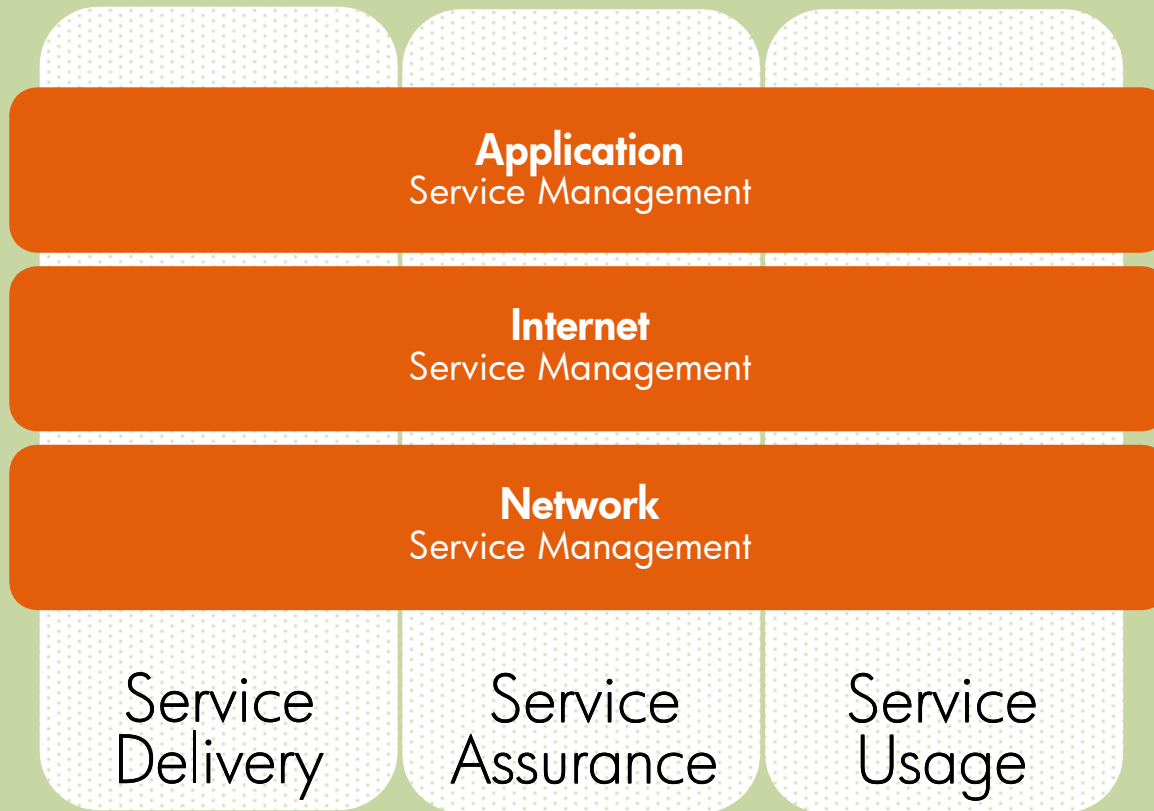
- 10X increase in last mile bandwidth
 - DSL or Cable Modem connections provide 500Kbps or greater
 - “Instant-On” features feasible because users are always logged on
 - On demand video news service reasonable for first time
- Backbone bandwidth costs drop by factor of 10
 - Parallel T3s replaced by parallel OC48 and beyond
 - Temporary glut in available WAN bandwidth
- E-Commerce sites mainstream retail distribution channel
 - Increased use of “Rich Content”
 - Increased use of JAVA for application development
- Mobile wireless access to Internet data commonplace
 - IMT2000 solutions will provide 64Kbps to 384Kbps

Disruptive Paradigms

Key Change Agents Other Than Technology

- **More mega-mergers such as AOL/Time-Warner**
 - **World's largest ISP now is World's largest Content Provider!**
- **Microsoft break-up generates ripples like AT&T did**
 - **Smaller parts of Microsoft able to re-merge with other companies in ways that Microsoft as a whole would not**
- **On-line multi-media content distribution (mp3s, CDs, DVDs) becomes primary channel and is commonplace**
- **Rapidly moving Internet evolution**
 - **Great sense of urgency!**

Integrated Service Management





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