



Empowering Service Providers with the Tools for Success

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Service Provider Solutions

The Changing Enterprise

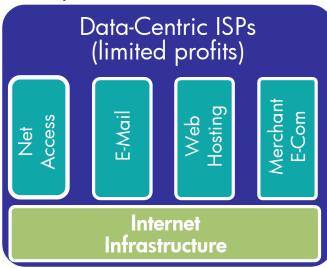
- Anyone, anytime, anywhere
- Everything is an "e-Service" over the Internet
- "Wired" and "wireless" user access

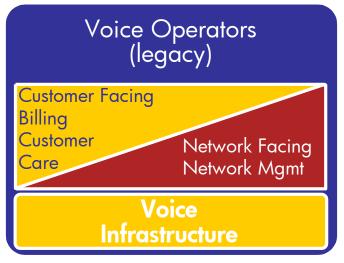
"within five years, all companies will be Internet companies, or they won't be companies."

-- Andy Grove

Service Provider Market Trends

Today...

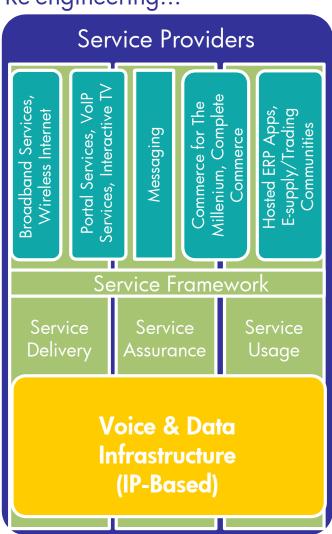






- Telecos moving voice NWs to IP & broadband
- Rapid emergence of new independent IP-based service providers
- Enterprise moving to internal SP model
- Enterprises outsourcing applications & business processes to Application and Business SPs
- Continuing evolution of ISVs to ASPs; mobile apps also emerging
- 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?

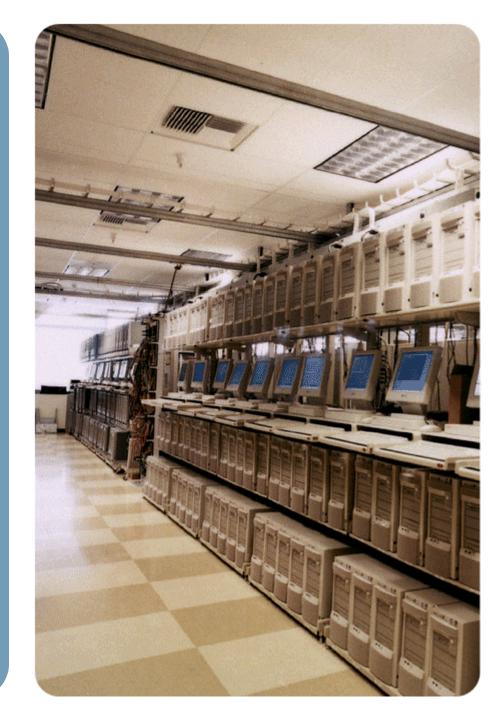
E-enterprises ...

Consumers ...

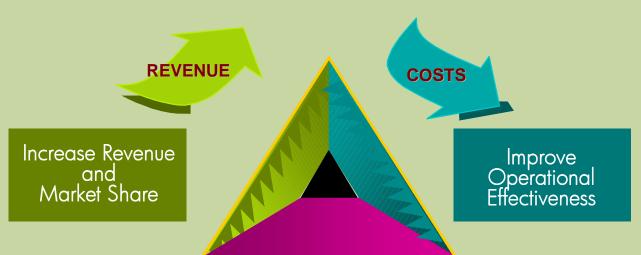
Other Service Providers ... and You

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

Services On Demand



Service Provider Business Challenges



- > Introduce new services quickly
- Maximize revenue from each customer
- > Enhance brand identity



LOYAL CUSTOMERS

- > Deliver bulletproof service
- Offer the service provider's customer visibility and control
- > Develop customer trust

- Deploy quickly
- > Scale larger
- Eliminate redundancies in equipment and people
- Consolidate operations and control

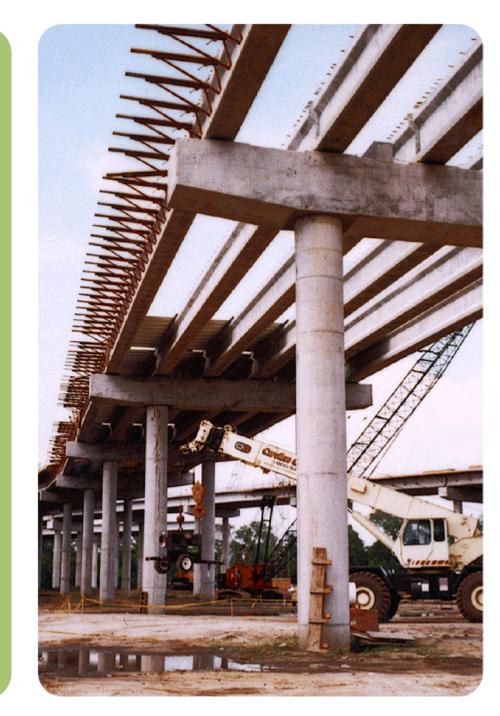
Service Provider Technology Challenges

Rapidly deploy and scale new services and technologies ...

...provided by multiple suppliers and delivery partners ...

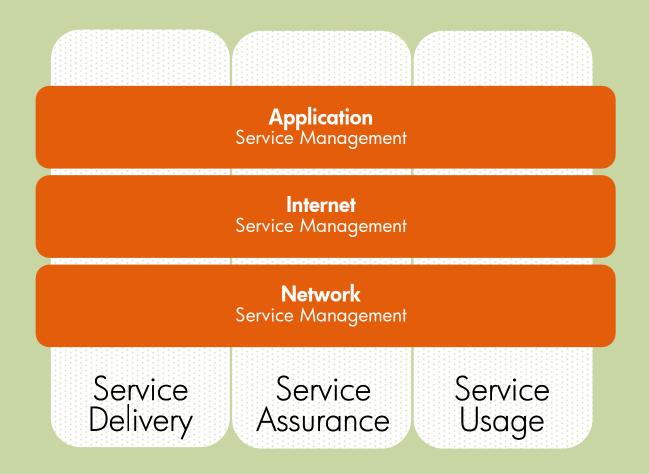
....into very complex and possibly legacy service infrastructures ...

...without negatively impacting system uptime, performance, or security.



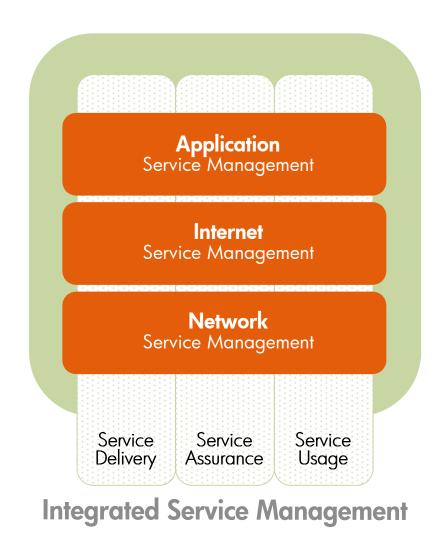
Service Providers Require ...

Integrated Service Management Solutions



Service Provider Solution Segments

- Full Service Providers
 - Provide services at all levels
 - Need a comprehensive, wellintegrated management solution
- Specialized Providers
 - Need focused solution
 - Need integration with upstream and downstream providers
 - Management Service Providers



Visibility of outsourced services



Application Service Management

Internet Service Management

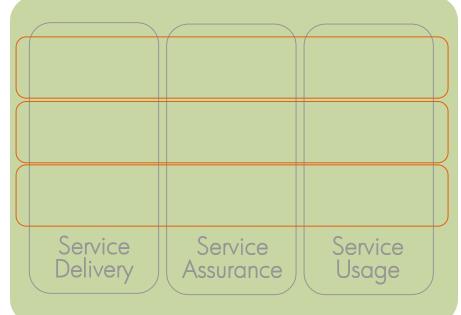
Network Service Management

Service Delivery Service Assurance Service Usage Enabling service providers to provide their service provider and end-user customers with a secure and customized view of their outsourced environment including ...

- Multi-source data consolidation
- Customer-centric information
- Customized look & feel
- Access via a web browser

Common Solution Elements

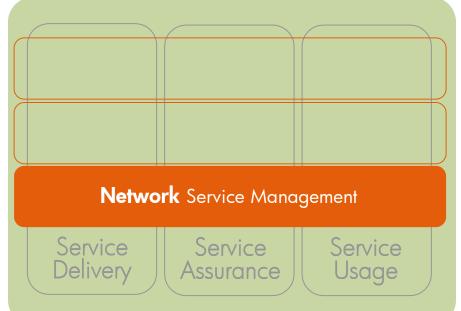




- Central point of control
- Consolidated view of events
- Flexible customer service-based reporting
- Services and support

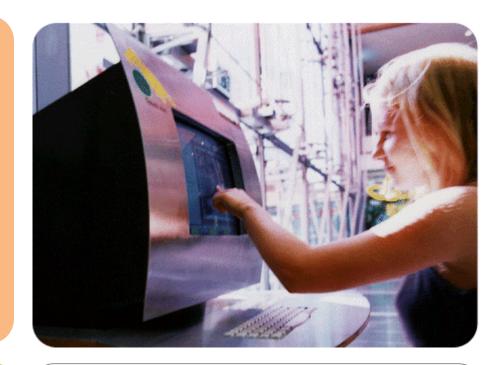
Network Services Management

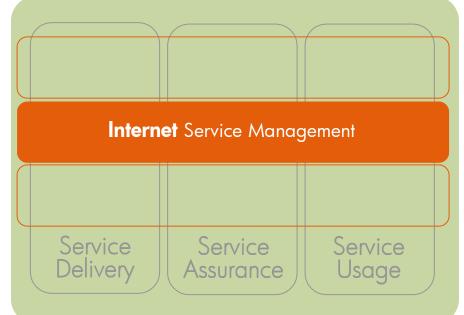




- Complete visibility of networked environment health
- Up-to-date status information
- Differentiated levels of service
- Rapid fault diagnosis and repair

Internet Services Management

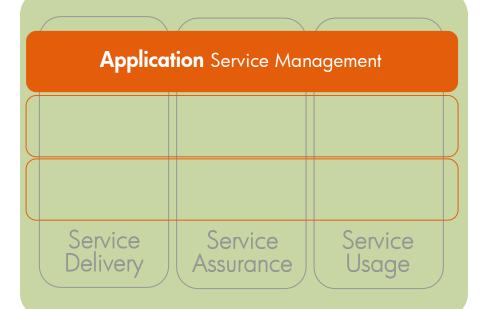




- Manage availability and performance of Internet services
- Manage Internet service level objectives
- Manage resource consumption information
- Manage web service quality

Application Services Management

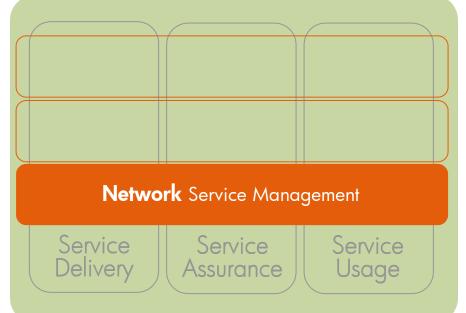




- View application / supporting infrastructure relationship
- Measure end-user application response time
- Manage of Service Level Agreements (SLA)
- Extend application and database management

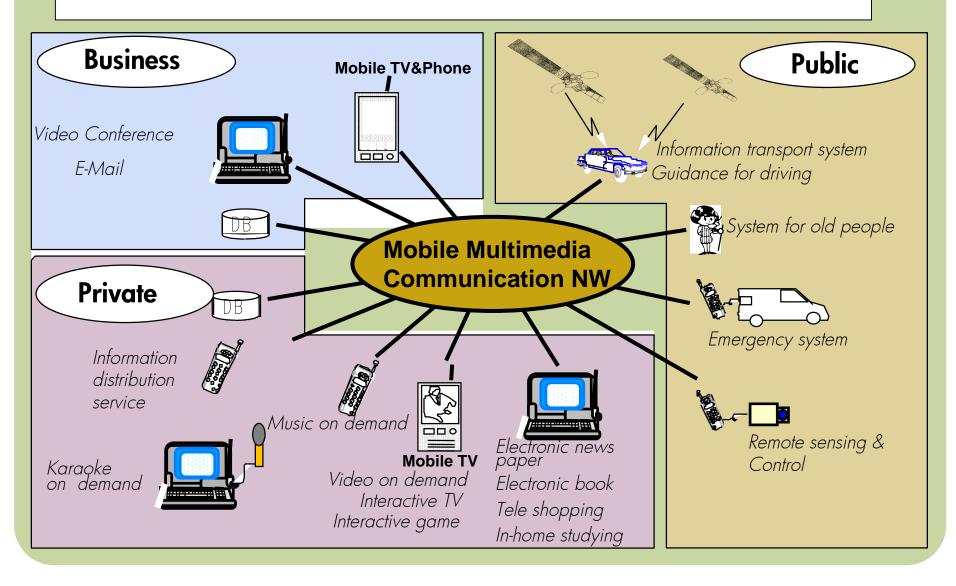
Converged Voice and Data Services Management





- Manage merged voice and data networks
- Single, consolidated view of the converged network
- Scalable and reliable for growing networks

Mobile Multimedia Services



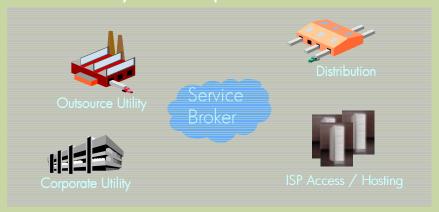
Computing Utility Real By 2005

The Consumer needs...



- Services on Demand
- Instant Gratification
- Intuitive Interaction
- Privacy

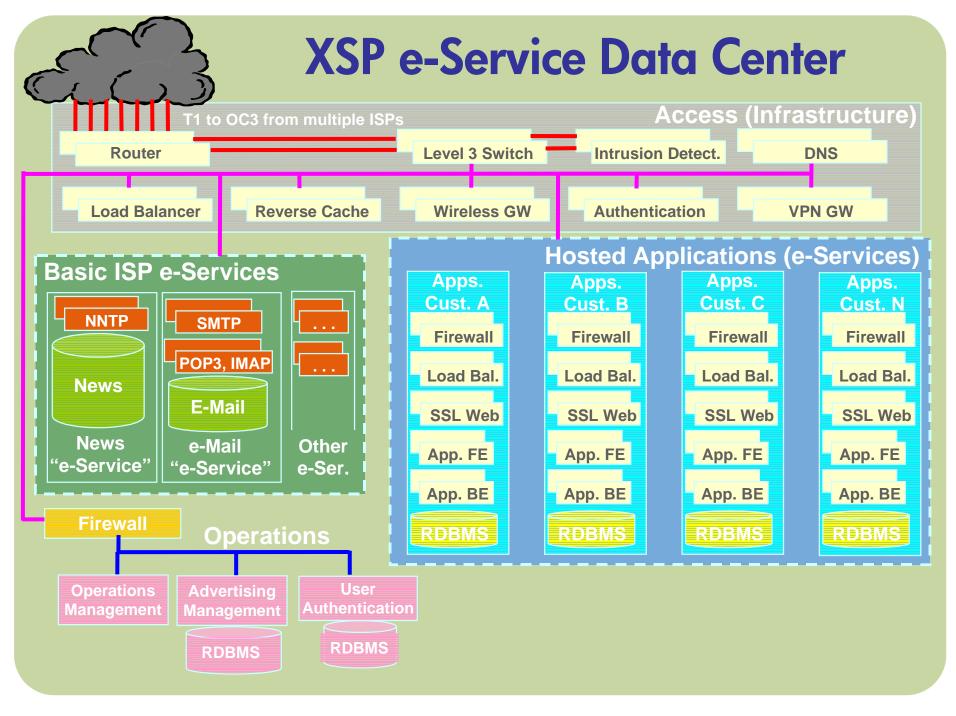
The Utility must provide...



- Continuous service availability
- Click-time response
- Ability to rapidly create new integrated services
- Encryption, Authentication

5-Year Vision Key Trends From Now to 2005

- Aggregation of computing will occur at multiple levels for services and data exchange.
 - Analogous to what voice telecom companies did in the past.
 - Single high bandwidth spigot into home for all "e-Services"
 - Personal all digital "VCR" for entertainment
 - PC for browsing, messaging, buying
 - New wide range of consumer devices such as Interactive Gaming
 - Phone integrated with other services
- Portals and Electronic Malls become commonplace



E-serviceCenter Attributes

Continuous E-service Availability

Capacity-On-Demand

Instant Global Connectivity

Total Security

Flexible End-to-End Management



The Internet changes traditional data center definitions



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