

Sprint



MPLS: Enabling Fixed-Mobile Convergence

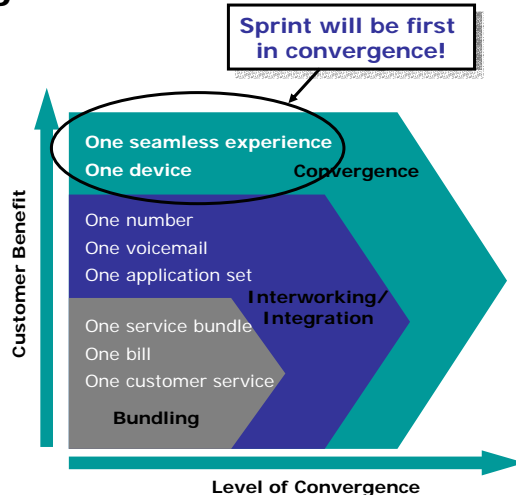
Barry M. Tishgart
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2006年11月10日

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Fixed Mobile Convergence Defined

- > The goal of FMC is enabling a consistent user experience independent of access mechanism or device
- > FMC also extends the cost efficiencies of VoIP to the wireless world
- > Sprint's assets and investments in mobility, IMS infrastructure and IP services deliver FMC



Source: OVUM

IMS – Enabling a New Telecom Business Model

Traditional Networks

- TDM-based
- Closed architecture
- Circuit-switched
- SS7 signaling
- Disparate voice and data technologies
- Separate wireline and wireless networks



Next-generation IMS Networks

- IP-based
- Open architecture
- IP-based soft switches
- SIP signaling
- Integrated multimedia
- Fixed and mobile convergence

“In December 2004, Sprint became the first carrier to commit to a converged platform and heralded the age of IMS in the U.S.”

Source: Telephony, January 17, 2005

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Key VoIP Enablers

- > Sprint MPLS VPN
- > Sprint Managed Network Services
- > Custom Network Solutions
- > Partnerships with best-in-breed solutions providers
- > Over 1 Million VoIP customers through Cable partnerships



“Sprint’s largest competitive advantage [with VoIP] will be its ability to offer integrated IP wired / wireless capabilities.”

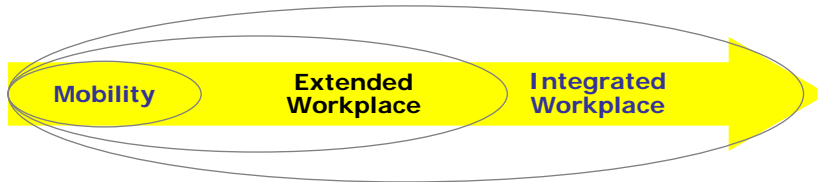
(Source: Stratecast Partners, May 2004)

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Fixed Mobile Convergence Strategy



Sales Focus	Mobility, IP Wireline, Application Sales	Personal Fixed Mobile Functionality	Enterprise Fixed Mobile Solutions
Offer Components	<ul style="list-style-type: none"> > Mobile Broadband > Smart devices > Mobile applications > IP/MPLS 	<ul style="list-style-type: none"> > Mobile Extension > Single Voicemail > Integrated VPN > Mobile Applications > Mobile Data Security 	<ul style="list-style-type: none"> > End-to-End Data VPN (MPLS) with VoIP mobile extensions > End-to-end applications > Unified communications

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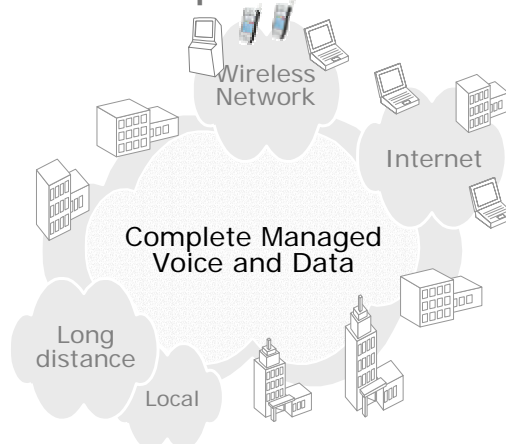


Evolution Drivers

>By end of 2008, over 90% of Sprint customer traffic will be transported on the Sprint IP network

>***Sprint's IP network serves as the foundation for convergence***

- Network convergence
- Application convergence
- Wireless integration



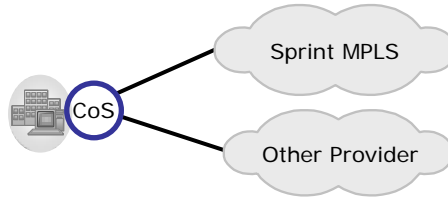
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Sprint Solution for MPLS Interoperability

- >For dual supplier requirements
- >For ease of migration
- >Reduce risk of global expansion
- >Flexible Class of Service



MPLS QoS Interoperability Issues	Sprint Solution
Number of Classes	Sprint supports up to 6 classes at no additional charge
Bandwidth Allocation per Class	Sprint provides fully flexible bandwidth allocation
Class of Service identifiers	Sprint provides high level of flexibility in Class of Service identifiers

Network Evolution Strategy

- >Implement technologies and features that build upon Sprint's QoS engineering philosophy and further enhance support for a converged environment

Sprint IP Network Today

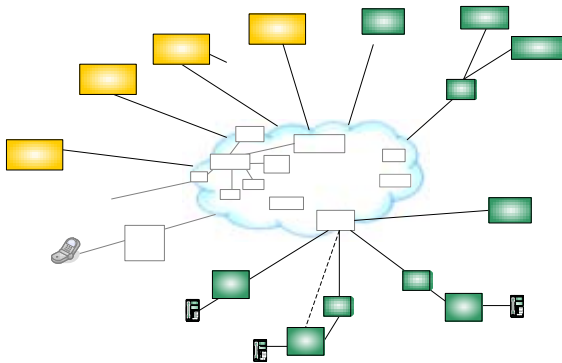
- >Interconnections with other Sprint networks
- >Ready for real-time applications
- >Primarily fixed internetworking

Sprint IP Network Tomorrow

- >Single, multi-service platform
- >Voice, video, data convergence
- >More ubiquitous wireless integration

Fixed - Mobile Convergence

>IMS integration allows PBX features to be shared across wireline & mobile devices



Provides flexible integrated solutions that help enterprises lower costs and improve productivity

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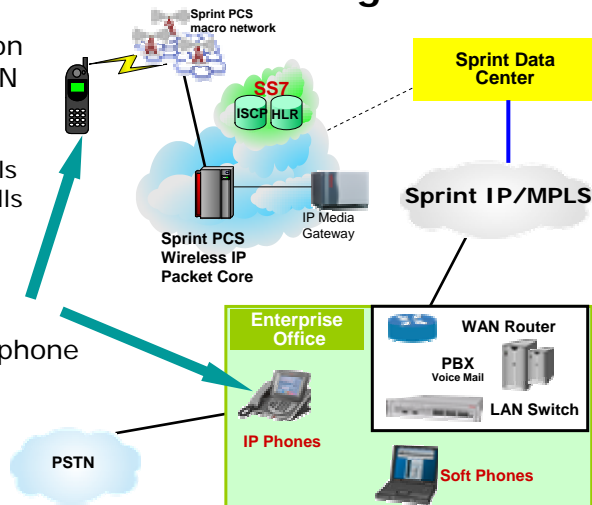
FMC example: Sprint Wireless Integration

Handset is an extension of Enterprise Voice VPN

- 4,5,6,... digit dialing
- dial 9 for external calls
- "on net" billing for calls through PBX

One number for both wireless and desk phone

- simultaneous ring
- seamless handover
- one voicemail



FAN Scan

Up Snap

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Questions & Answers

