

Multiservice Switching Forum (MSF)

ICBN 04' Seamless Global Connectivity and Services Anywhere, Anytime

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AGENDA

- Seamless Global Connectivity
- Multiservice Switching Forum
 - Goals
 - Strategy
 - Successes
 - Members
- MSF in 04'
- Members



Seamless Global Connectivity

ICBN 04' Theme:

Communications and Networking technologies that facilitate Seamless Global Connectivity and Services Anywhere, Anytime

MSF Vision:

A standard, scaleable, profitable next generation network that allows for incremental voice, video and data service enablement on a common platform that is easily managed and maintained







Services for Increased Revenue





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The Current Challenge:

- Separate "stove piped" networks that don't integrate well
- Very little interoperability between networks, components, carriers and vendors
- Separate systems management organizations
- Considerable legacy "lock-in"



Today

The next level



The Next Challenge: Applications for NGN Services

- Applications typically fall between the bounds of the Peerto-Peer and Client-Server Lines
- SPs ultimately want to be able to create billable CDRs and minimize Theft of Service for all these different traffic types
- Where does the sweet spot arrive and what has to be covered?
- Is there a critical mass that enables migration from today's networks?
- Where is the catalyst?





Overlay of Different RFPs

- Many of the RFPs and Tenders in the market pertaining to Service Control only partial cover the space
- There are many point responses and more and more partnered solutions
- The Market needs a Generic and Multi-Purpose Solution in order to fulfill the promise of NGN





A General Framework Proposal

- An extensible interface for general Framework to support both Client-Server and Peer-to-Peer Service Control
- Concept is to provide a generic, scalable answer to all SP Service offerings







PE Router

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MSF Goals

- Ensure practical and relevant strategies and execution by maintaining a critical mixture of service provider, vendor and test company members
- Leverage best of breed standards, protocols and architectures to create a realistic end to end NGN architecture and implementation agreements
- Create, build and test a multi-vendor, multiservice provider end to end, world wide deployment of NGN networks, technology and services in a timely manor



MSF Strategy: A Collaborative Framework



Implementation Agreements



MSF Strategy: A Value Proposition

Technology Exploration

MSF Scope & Strength

Strategic Technology Vision Architectural Framework Technology (Protocol Profile) Development Proof Of Concept/Feasibility Testing Interoperability Testing RFI Template

Detailed Design, RFP, Business Case Development, Company Specific Development, Certification Testing, Deployment

Technology Life Cycle



MSF Successes: MSF R1 Architecture





MSF Successes: GMI 2002



- Global Interoperability event
- Simultaneous testing at 3 sites:
 - BTexact Adastral Park, UK
 - NTT Tokyo, Japan
 - University of New Hampshire IOL New Hampshire, US
- Multi-carrier and multi-vendor environment
- Proof of the MSF Release 1 Architecture



Industry Involvement in GMI 2002





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MSF 2004: Rel2 Architecture





MSF Strategy: A Value Proposition



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Technology Life Cycle



MSF 2004: GMI2004

- By testing at 4 Carrier sites simultaneously in the BTexact (UK), Qwest (US), NTT (Japan), and KT (Korea), GMI 2004 will provide tangible proof of multi-vendor interoperability for carrier–grade global networks as specified by the MSF Architecture and Implementation Agreements
- The goal to demonstrate a deployable and operationally ready IP telephony network with services, applications, network management, enhanced QoS and security features



MSF 2004: GMI 2004 focus

- Architecture
- QoS
- Services & applications
- Call routing security
- Management



Detailed technical discussion documents and white papers available on MSF website

www.msforum.org



GMI2004 - 5 Scenarios

- Each Scenario specifies the following:
 - Domains
 - Physical Network Elements Involved
 - Network Connectivity
 - NAT/Firewall
 - Security
 - QoS
 - Protocols and Implementation Agreements
 - Redundancy and Failover
 - Feature List
 - Exception Testing



Scenario 1: Single Call Agent/Single Domain



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Scenario 2: Single Call Agent/Single Domain/Value Added Services



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Scenario 3: Single Call Agent/Single Domain/PSTN Interconnectivity





Scenario 4: Inter-Service Provider w/ PSTN Connectivity



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Scenario 5: Inter-Service Provider w/ Value Added Services





GMI2004 defined interfaces



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GMI 2004 In Brief	
Carrier Hosts:	GMI 2004 is being hosted by four of the world's largest telecom carriers: BT, KT, NTT and Qwest.
What?	GMI 2004 will provide tangible proof of multi-vendor interoperability for carrier grade global networks as specified by the MSF Architecture and Implementation Agreements.
When?	GMI 2004 will take place September 20 - October 4, 2004, culminating with a major press event at each of the carrier host locations.
Where?	 Japan: NTT Musashino Research and Development Center, Tokyo South Korea: KT Technology Lab, Daejeon UK: BTexact Technologies Centre, Ipswich, Suffolk USA: Qwest Communications Labs, Dublin, Ohio
Why?	GMI 2004 will demonstrate a deployable and operationally ready IP telephony network with services, applications, network management, enhanced quality of service (QoS) and security features.
How Much?	\$9,500 USD for MSF Members \$10,500 USD for MSF Partners \$13,500 USD for non-MSF Members

Detailed technical discussion documents ("white papers") available at <u>www.msforum.org</u>



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Partnerships

- The MSF is recognised by the ITU-t
- The MSF actively liaises with regional SDO's (e.g. ETSI Tiphon)
- The MSF successfully works with the IETF (e.g. H.248/ MEGACO development)
- The MSF was selected as a successor organization by the OpenVOB
- The MSF has collaboration agreements in place with:

-SIP forum

-MPLS/Frame Relay Alliance - MFA

-Telecommunications Management Forum (TMF)



Current MSF Principal Members



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Thank you