The Multiservice Switching Forum (MSF)

"Fighting for Open Architecture & Interoperability"

ITU Forum Summit - July 2003

San Francisco, California

Roger Ward

MSF President

multiservice switching forum

MSF Members 2002/3

Board of Directors

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The MSF Dream

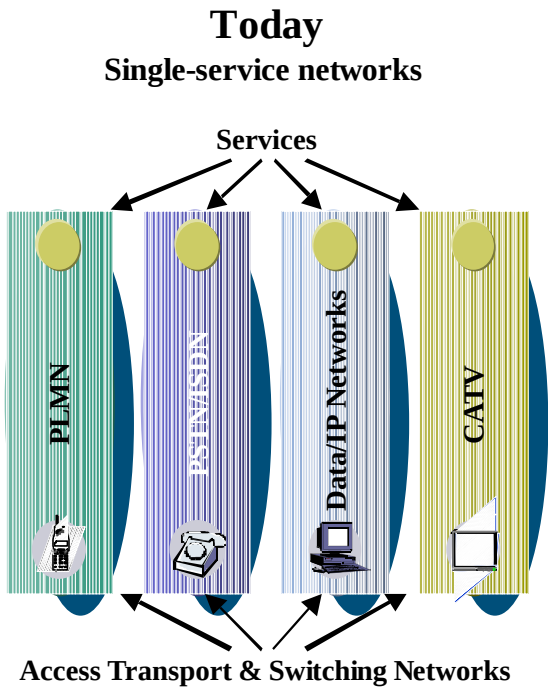
- A scaleable next generation network generating revenue from multiple services at marginal incremental cost
- A very effective communications machine for voice, video, data and any new services
- Solutions that are easy to manage, from provisioning through to maintenance

multiservice switching forum
Global MSF Interoperability 2002

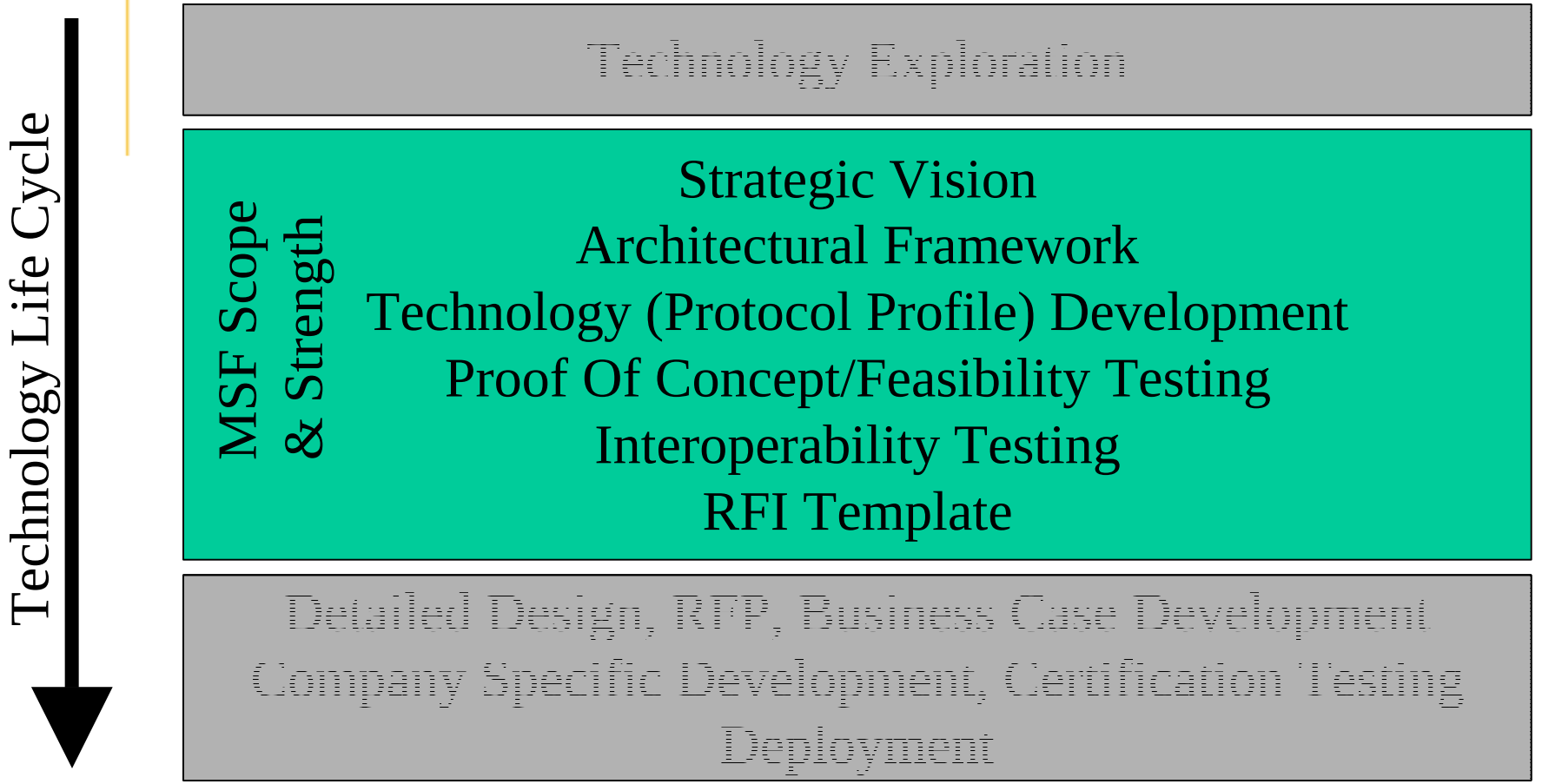
SUPPORTS msf1 ARCHITECTURE

Or the Nightmare

- Stove pipe solutions (dedicated networks for each service), leading to
  - Inefficient use of transmission capacity
  - Increased operating costs



MSF Value Proposition

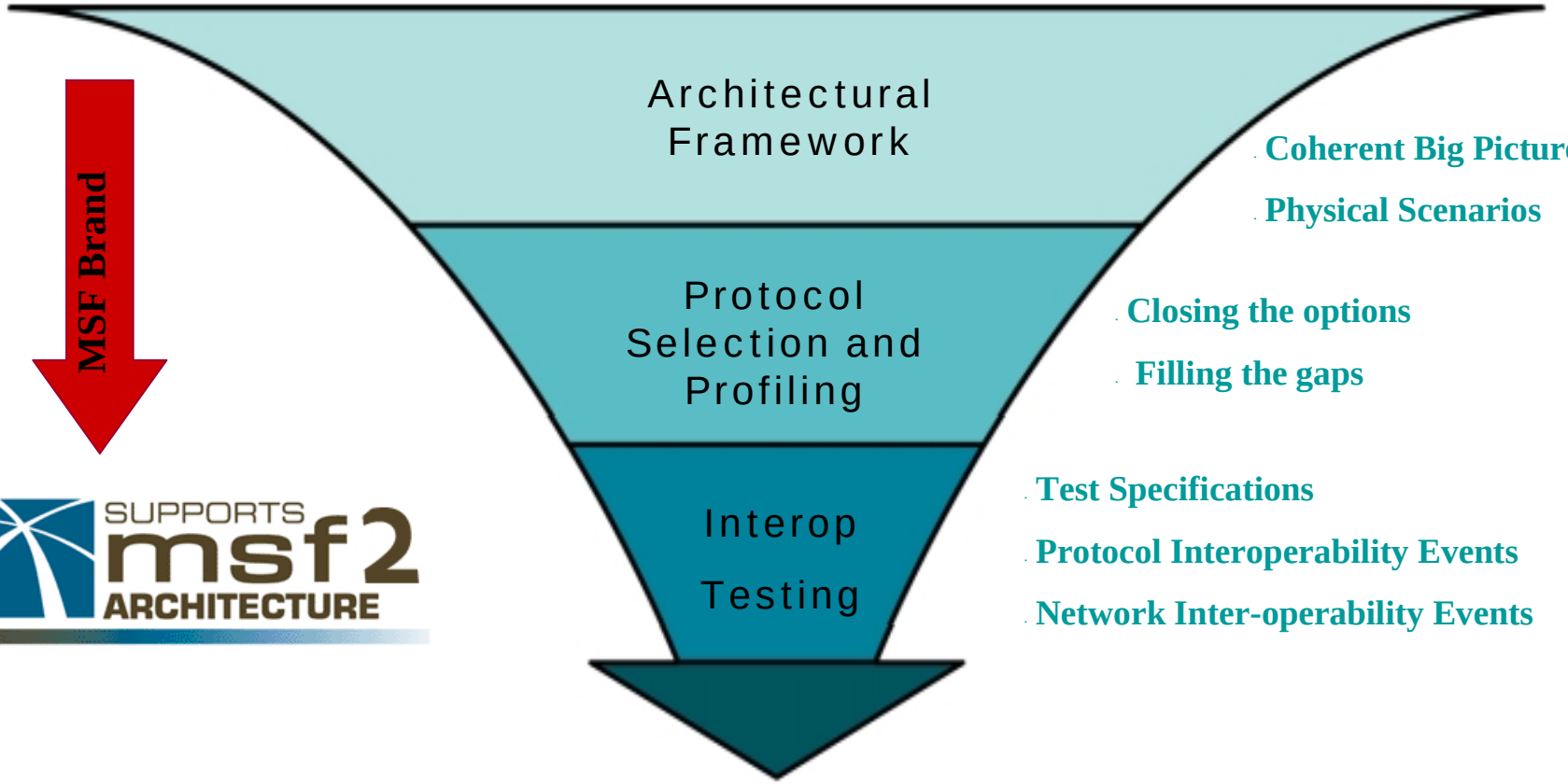


MSF 2003 Measurement of Success

"The completion of a minimal number of specifications that, combined with the committed efforts of other forums / standards bodies, will allow the supplier community to accelerate the availability of interoperable, manageable network components that can be commercially deployed by the carrier community in support of viable new services and capital / operations efficiencies in accordance with an updated physical scenario set based on the MSF Release 2 architectural framework."

- MSF Board of Directors January 2003

MSF Collaborative Framework



SUPPORTS msf2 ARCHITECTURE

Commercially Viable Validated Implementation Agreements

2002 - A Year of Achievement

2002 Foundation

1) A set of IA's supporting the MSF Release 1 functional architectural

2) A set of commercially viable Physical Architectures (Scenario Set 1) consistent with the R1 functional Architectural

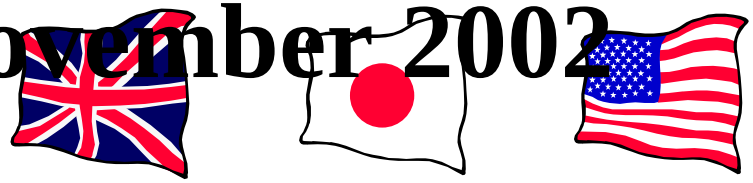
3) A detailed set of test programmes to comprehensively validate MSF (IA's)

4) Successful completion of the GMI2002 programme

5) Progress towards the MSF Release 2 Architectural Framework

6) A number of major companies signing up to the MSF branding programme

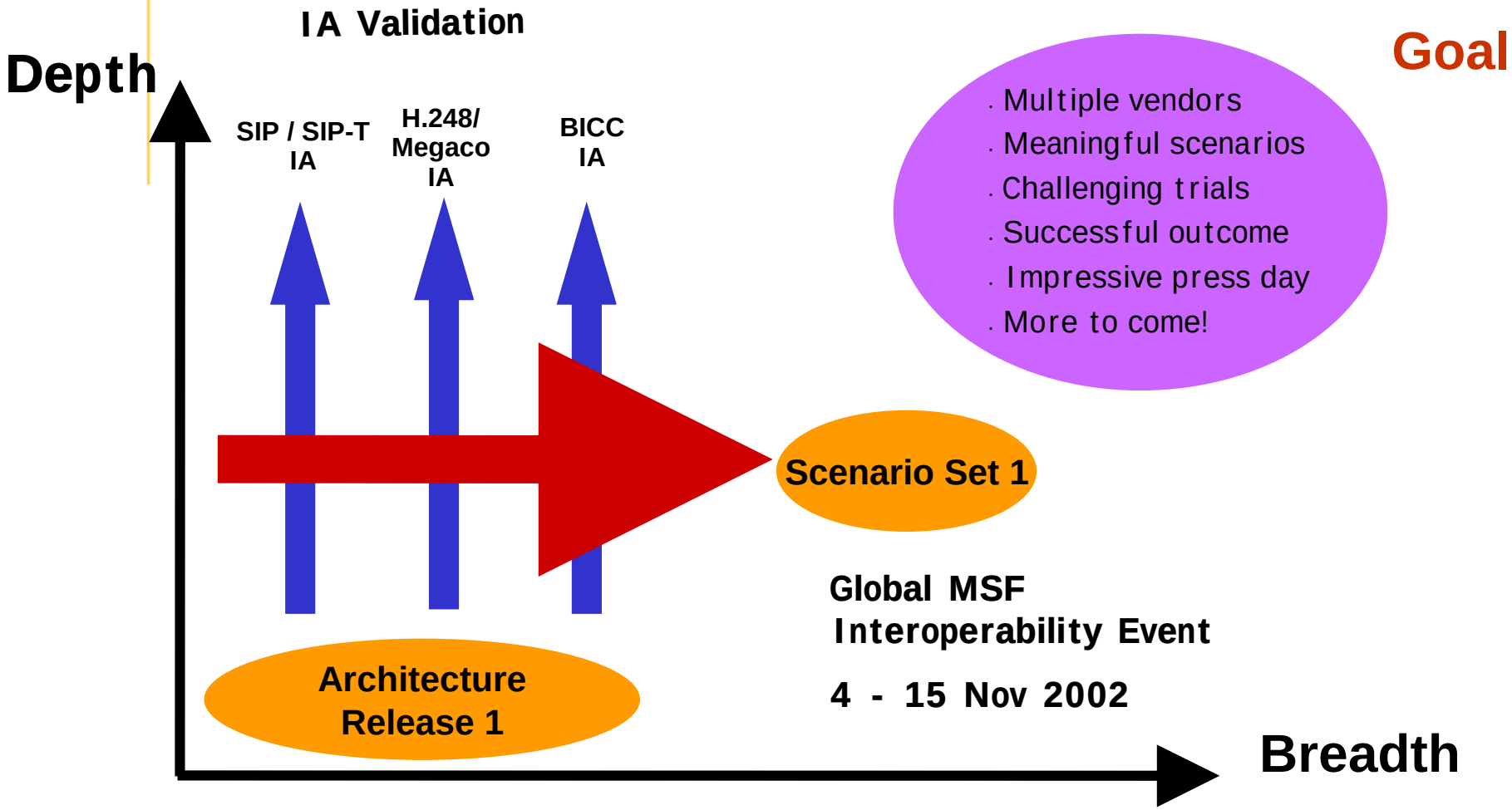
Global MSF Network Interoperability 4 - 15 November 2002



- Global Interoperability event
- Simultaneous testing in 3 sites
  - Adastral Park, UK (BTexact)
  - Tokyo, Japan (NTT)
  - New Hampshire, USA (UNH)
- Multi-vendor environment
- Multi-carrier environment

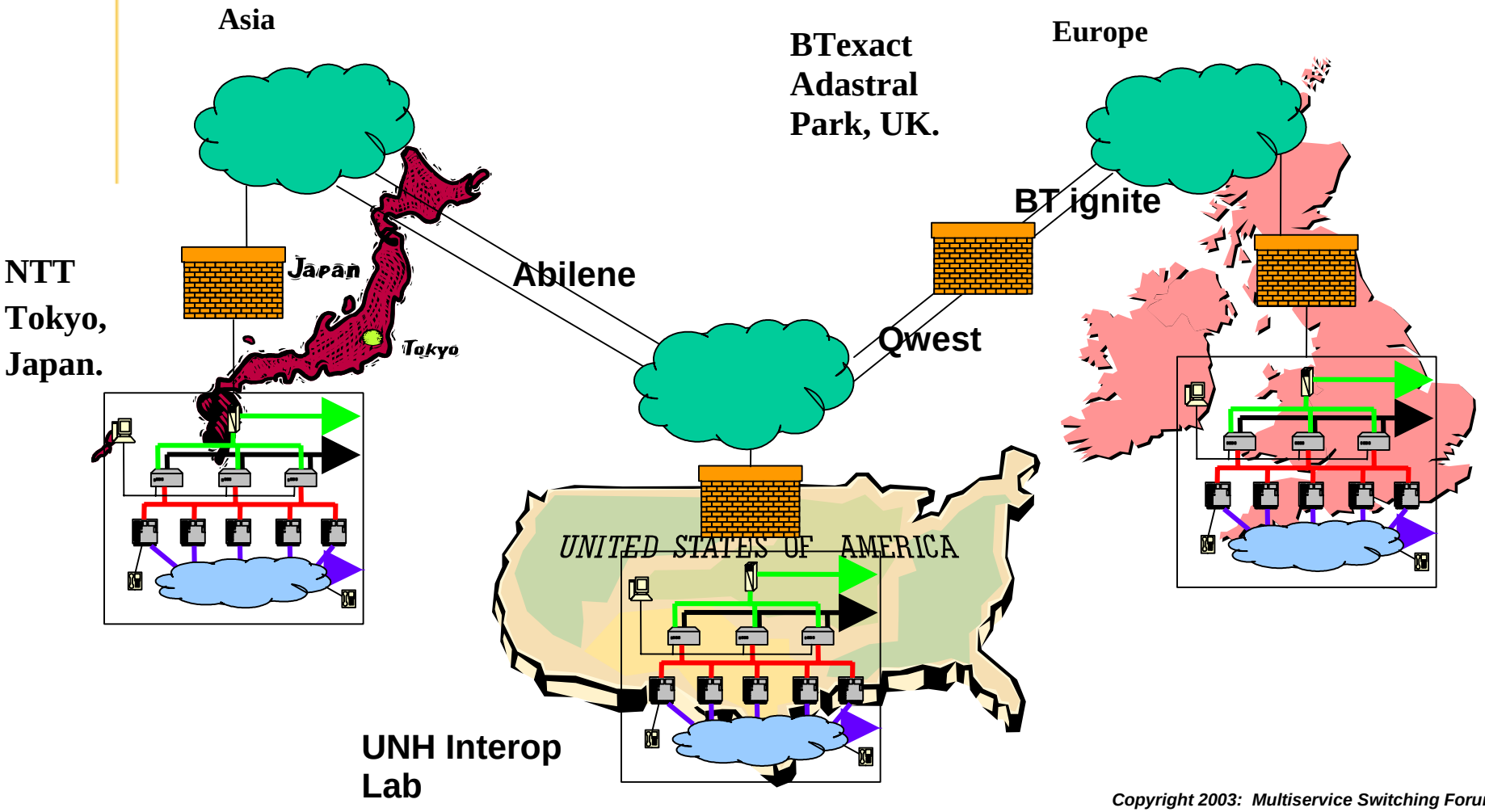
➢ **Proof of the MSF Release 1 Architecture**

Global MSF Interoperability 2002



Industry Involvement in GMI 2002

The GMI2002 Network



GMI 2002 Quotes

"(The MSF is) a motivated forum creating joint value for both suppliers & operators"

- Tarek Moustafa, President Northern Europe, Alcatel

I am pleased to see MSF has come of age, getting beyond the slideware early in the lifecycle and really offering practical value add to members

- Mick Reeve, CTO BTexact Technologies

"The architecture & implementation agreements articulated by the MSF are key to Qwest's technology direction"

- Pieter Poll, Vice-President Worldwide Technology Management, Qwest Communications

"A force for industry consensus comprising the industry's best experts from around the world helping to bound the problem; increasing our confidence in our investment decisions; allowing us to deploy network components that inter-operate and support a variety of business models; a collaborative framework for change"

- Tim Wright, CTO BT Wholesale

MSF 2003/4 Strategic Objectives

1) A work programme defined by the "solutions driven" white papers leading to:

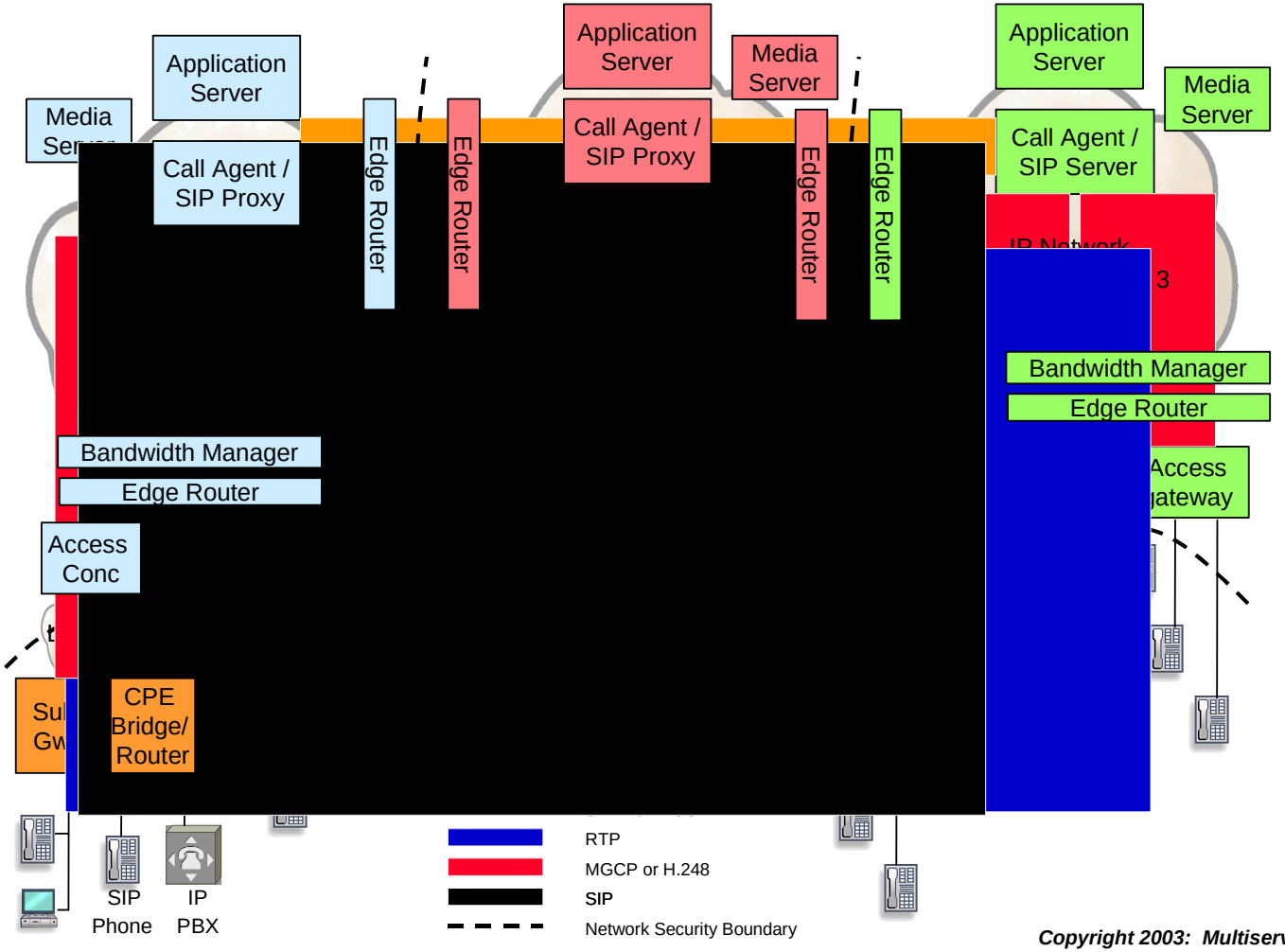
- A set of MSF Release 2 Physical Architectures (Scenario Set 2)
- Additional IA's
- GMI2004

2) Existing IA's updated based on the results of GMI2002

3) Functional Architectural updated to Release 2

4) Marketing development through the "Supports MSF 2 Architecture" brand

Technical Scope of GMI2004



Partnerships

The MSF seeks to co-operate with other forums and standards bodies as appropriate in pursuit of its strategic directives.

The MSF :

- ✓ is recognised by the ITU-t and will participate in the 2nd ITU "Forum Summit" to be held in San Francisco, July 2003
- ✓ actively liaises with regional standards development organisations such as ETSI (SPAN) & is actively pursuing discussions with ATIS on industry forum rationalisation
- ✓ has negotiated an MOU with PARLAY to co-operate in development of applications architecture & get support for GMI2004
- ✓ has signed a collaboration agreement with the Telecommunications Management Forum (TMF) & is actively pursuing support for GMI2004 collaboration (e.g. catalyst demo at TMF World)
- ✓ Actively pursuing discussions with the MPLS/Frame Relay forum on GMI2004 collaboration
- ✓ has a close relationship with the IETF

What the Press Says About the MSF

"To provide the nexus where embedded hardware and software standards and specifications meet…"

The planes of the MSF model encapsulate functional element… that then turn into actual equipment…"

In contrast to the vertical silos associated with individual switching technologies, the MSF architecture is structured in plane…

This allows for the separate evolution of services/application functionality, network controller capability, switching technology and media transport."

– Electronic Engineering Times (July 2002)

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