



Engineering the Evolving Internet

Leslie Daigle (IAB Chair)

Brian Carpenter (IETF Chair)

May 2005

Position

- Our primary belief
 - We believe there will continue to be many local and widescale evolutions of networks using IETF technology to form the Internetwork
- Collegial sharing of views
 - We're not here to offer judgment on the ITU-T's NGN design
- Desired outcome
 - We welcome the opportunity to get a better shared understanding so we can appropriately take your input in our on-going work

Overview

- The IETF Perspective
 - Mission
 - Scope
 - Interpretation
- This meeting
 - IETF view ITU-T NGN
 - Working Together

From IETF Mission Statement (RFC3935, 2004)

“1. Mission Statement

The goal of the IETF is to make the Internet work better.

[snip]

The Internet: A large, heterogeneous collection of interconnected systems that can be used for communication of many different types between any interested parties connected to it. The term includes both the “core Internet” (ISP networks) and “edge Internet” (corporate and private networks, often connected via firewalls, NAT boxes, application layer gateways and similar devices). The Internet is a truly global network, reaching into just about every country in the world. The IETF community wants the Internet to succeed because we believe that the existence of the Internet, and its influence on economics, communication, and education, will help us to build a better human society.”

Scope

“In attempting to resolve the question of the IETF's scope, perhaps the fairest balance is struck by this formulation: 'protocols and practices for which secure and scalable implementations are expected to have wide deployment and interoperation on the Internet, or to form part of the infrastructure of the Internet.' ”

Interpretation

- The mission statement is
 - derived from experience
 - not a simple list of desiderata
- Protocol specifications document developments
 - necessarily, that which is new or changed
 - the architecture is often implicit
 - participation is key

IETF views ITU-T NGN

- We believe that the requirements and services described in the ITU-T NGN effort represent an important plan for future network activities, but
 - they are just one plan
 - we may disagree about the expected viability of some design choices, based on collected experience in developing and deploying the Internet

Working Together

- At this meeting
 - need to hear your specific expectations so we can determine how best to carry that as input to further discussions
- Success going forward
 - let's work together where we agree on extension
 - where we disagree, let's use our procedures (and improve the procedures in the process)
 - incompatible extensions that claim to be “part of the protocol” break things for everyone