Integrated Services Deployment BOF

Fred Baker

Cisco Systems

Objectives

- Demonstrate Integrated Services Architecture
- Deploy Proposed Standard RSVP
- Gain deployment experience

Demo Questions

- Precisely what service to be offered?
- Testing implementation interoperability
- Topology
- Baseline MIB Set
- Applications
  - commonly supported applications
  - proprietary applications

RSVP Minimal Subset

- Messages
- Non-optional Object Types

RSVP Messages Supported

- All of them!
- Path, Path Error, and Path Tear down
- RESV, RESV Error, and RESV Tear down
- Use IP Fragmentation

RSVP Objects: Minimal Subset

- IP and UDP encapsulations
- Common Header
- Session Object
- Next/Previous Hop
- Style
- Flow Specification
- UDP/TCP Filter Specification
- Sender Template
- Error Specification
- Scope

Optional RSVP Objects

- Time Values
- Sender Tspec
- OPWA Advertisement Specification
- Policy Data
- Integrity

Flow Specification Styles

- Wild card Filter (WF)
- Shared Explicit Filter (SE)
- Fixed Filter (FF)

Service Specifications

- Pick one or two:
  - Guaranteed Bit Rate
  - Controlled Delay
  - Predictive Delay
  - Lixia/Sally's Proposal
- Define Flow Specs!

Demo: what to show

- Various real time applications
- Network behavior
- Value of the architecture

Multicast Routing Protocol to use...

- Select one, maybe two:
  - PIM
  - CBT
  - DVMRP
  - IDMR