Integrated Services WG

Welcome to San Jose

Thanks for coming to int-srv

Please sign the blue sheet!

Toronto Agenda/Work Items

- **Write new Service Model Spec (Nov)**
- **Write I-D on (receiver-based) Reservation Interface (Nov)**
- **Detailed Flow Spec I-D (March)**
- **I-D on first-pass router requirements (after Nov)**
- **Push for I-D's describing specific implementations (anytime)**

Goals...

What was explicit before

- Internet support for a wider range of applications, focussing on “real-time”

What we didn’t say before

- Different parts of the Internet (and different internets) provide different levels of service
- Divorce applications as much as possible from specific services
  - For evolution (of the net)
  - For competition (between services / providers)
  - To better support adaptable applications

…continued

- **Allow applications that demand it to set minimum service levels**
  - **.. which won't be available everywhere**
  - **.. which will require correctly engineered network**
- **Recognise the federated nature of the Internet**
  - **Many providers, many levels of hierarchy**
  - **No central authority / control**
  - **Many pairwise contracts**

- **Lack of clear statement -> confusion**
- **Putting goals on the table has led to some new ideas and work items**

Framework

- **Our mission is to build a framework**
  - **Overall structure**
  - **Shared components**

  which can be used to implement a variety of services
- **To the extent possible, components are**
  - **General**
  - **Designed to respect the goals mentioned on the previous two slides**

Reusable Components

- **Quality of Service Interface/Manager**
  - **Provides general interface for applications and network to negotiate about services**
  - **Isolates applications from specific service models**
- **Setup Protocol (RSVP, STII, etc)**
  - **Carries reservation information to routers**
  - **May help map end-to-end requirements to per-router requirements**
    - **“Negotiation model”. As general as possible without scaling/functional braindamage**

More Components

- **Traffic and Requirements Specifiers**
  - **– "Flow Spec"**
  - **– Gives the system information about sender's generated traffic and receiver's desires.**
  - **– May be used for scheduling, admission control, policing, ???**
- **Service Specification Requirements**
  - **– Defines a service:**
    - **router requirements, negotiation model, end-to-end results, etc. etc.**

Mighty Morphin Work Items

- **Write new Service Model Specification**
  - **This "framework" document describes the components and how they interact.**
- **Write I-D on (receiver-based) Reservation Interface**
  - **This document includes a description of the QoS Manager interface.**

More Work Items

- **Detailed Flow Spec I-D (March)**
  - **Unchanged**
- **I-D on first-pass service requirements**
  - **This document defines the description of a service. Will contain a definition of the service specification template and some examples.**
- **Push for I-D's describing specific implementations (anytime)**
  - **Unchanged**

Meeting Agenda

- **QoS Manager**
  - **QoS Manager Overview**
  - **Example mapping onto Sockets**
- **Service Specification Requirements Doc.**
  - **Proposed structure of document**
  - **Example of Predictive Service**
- **Flow Specifications**
  - **Is a generic spec useful? Design, convergence issues**
- **Deployment discussion**
- **Additional Technical Issues (as time permits)**
  - **Flow ID Management**
  - **Token Bucket Filters**