

CFP Activities Moving Forward

Karen Sollins...

and all of you

Background

- ▶ Sollins talking with companies individually
- ▶ Insight: needs to be interactive
 - ▶ Work on an idea to form appropriate activity
 - ▶ Engage a number of members
 - ▶ Find MIT resources
- ▶ Activities can be
 - ▶ Single paper, series of papers, book...
 - ▶ Working group
 - ▶ Engagement with others outside CFP
 - ▶ Others?

Executive Session, 9/10

- ▶ Solicited topics from company liaisons
 - ▶ Topics they thought valuable
 - ▶ Were prepared to discuss in the group
 - ▶ Several members responded with a number of topics
 - ▶ Two presented
 - ▶ Roberto Minerva, TI: **0-Touch Networks**
 - ▶ Food for thought, see below
 - ▶ Rich Woundy, Comcast: **Broadband Speed Measurements**
 - ▶ Considered in MITAS, and possibly Interconnections WG

0-touch networking

- ▶ Proposed a service model of the future
 - ▶ Assumptions: mobility, small devices, IOT, wireless
 - ▶ Enable incorporation of 3rd party services into the service provided by the ISP
 - ▶ Example: IBM wants to provide functionality to a customer in Italy and Singapore. Contracts with TI and SinTel for services to pull together
 - ▶ Enable private customers to contribute resources (storage, computation, data, etc.) to the ISP service
 - ▶ Example: smart phone users have much available storage and possibly data that could be exploited
 - ▶ Enable cross domain international service provision
 - ▶ Example: Italian buys service from TI and could get same service in other countries, working through local service providers

Why did I say all this?

- ▶ Implies a particular service model
 - ▶ Composition and evolution of new, non-transport services
 - ▶ Different business model with customers
 - ▶ Complex web of negotiated relationships for apparently invisible mobility
- ▶ How to think about it
 - ▶ What “resources” are being provided with what “guarantees”
 - ▶ Control points: where are they and who holds them

Must understand

- ▶ Resources:
 - ▶ Identity management
 - ▶ Provision of transport, storage and computation: composed from infrastructure and provisioning from under-utilized private resources
 - ▶ New business models
- ▶ Control points
 - ▶ Security/privacy/trust mode: service providers, owners of contributed resources, peering networks for invisible mobility
 - ▶ Multiple regulatory regimes: governments and international organizations
 - ▶ New business models

Suggestion

- ▶ Each CFP company has at least one and possibly more than one qualitatively different services models “of the future”
- ▶ Consider a survey and comparison
- ▶ How this might work
 - ▶ Involvement of company members
 - ▶ Sollins to take MIT lead
 - ▶ Lead to a white paper, not sure that it would be an ongoing WG