

IPPM Metrics for IPTV performance and QoS measurement

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Paris, France, 31 July - 5 August 2005

Presentation Overview

- Performance of broadcast/multicast IPTV services
- Multimetrics draft presentation
 - one-to-group metrics
 - Spatial metrics
- Discussion

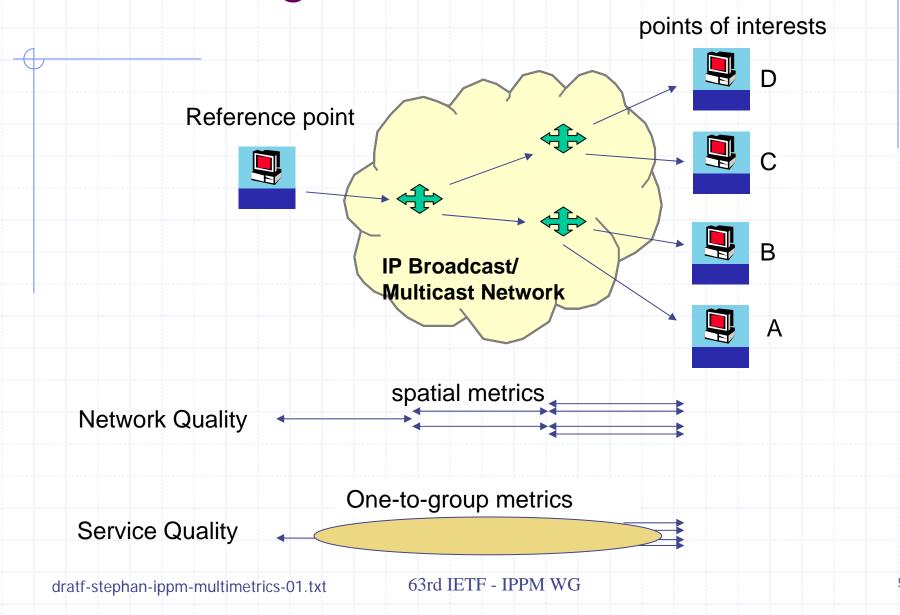
Broadcast/Multicast IPTV services

- New and critical opportunities
- Many technologies, barriers, contents
 - VoIP, coding, routing, QoS
 - XDSL, satellite, mobile
 - Weather forecasting, animation, sports, news
- What about performance?

Motivations for One-to-group Metrics

- ♦ IPPM existing metrics
 - One-to-one connections
- Broadcast and multicast services?
 - Difficult to describe
 - Inappropriate information
- Absolute QoS & Relative QoS

Terminologies and Scenario



Discussion on One-to-group Statistics

- Statistics to present the group performance and relative QoS
- One-to-group mean streams
 - Overall QoS for a group of users
 - A reflection of the absolute QoS when we treat all receivers as one node
- One-to-group variation streams
 - How the QoS varies among all of the users
 - A reflection of the relative QoS, i.e., the level of the difference between the absolute QoS of each receivers
- ◆ The QoS trend and range of a multiparty communication service

Motivations for Spatial Metrics

- Inter-domain path computation
- Performance of different segments of networks
- Detailed performance on each branched of multicast and broadcast tree

Discussion

- Benefit of one-to-group metrics
 - Broadcast and multicast service performance
 - Relative QoS
- Benefit of spatial metrics
 - Broadcast network performance measurement
 - Standard reference for composition of metrics