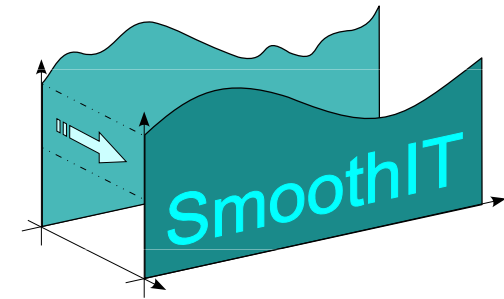


*Simple Economic Management Approaches of
Overlay Traffic in Heterogeneous Internet Topologies*

European Seventh Framework STREP FP7-2007-ICT-216259



ALTO-FCP: Application Layer Traffic Optimization Feedback-Based Client Protocol

Zoran Despotovic, Wolfgang Kellerer

DOCOMO Euro-Labs, Munich, Germany

Dirk Stähle

University of Wuerzburg, Germany

Ioanna Papafili

AUEB, Greece

Spiros Spirou

Intracom Telecom, Greece

Maria A. C. Rodriguez

Telefonica I+D, Spain



Background

- ❑ Simple Economic Management Approaches of Overlay Traffic in Heterogeneous Internet Topologies (SmoothIT)
- ❑ European Seventh Framework STREP FP7-2007-ICT-216259
- ❑ Internal Trial with Telefonica, Madrid, Spain
- ❑ External Trial with PrimeTel, Cyprus

Protocol

- Complement existing protocol drafts

Three main steps:

1. Capabilities

- Which rating criteria are supported
- Select a server that fulfils your needs

2. Guidance

- Conversation to support HLA refinements

3. Evaluation (Feedback)

- Learn about conditions in distant networks
- Learn clients' preferences and find best tradeoffs
- Support for new applications (unknown rating criteria)

Feedback from Clients

- Where are bottlenecks?
 - Server has path A-B-C-D to AS D (possibly from BGP)
 - Clients say there is no problem with A,B,C
 - -> rank low peers that are on a path passing through D

- New applications
 - E.g., what parameters matter for P2P video streaming?
 - Only distance? RTTs?
 - In case you don't know, you can learn from clients' feedback

Thank you for your attention!

