

IPTComm 2010

PRINCIPLES, SYSTEMS AND APPLICATIONS OF
IP TELECOMMUNICATIONS



Principles, Systems and Applications of IP Telecommunications

August 2 and 3, 2010
Leibniz Supercomputing Center, Munich, Germany

Technical Programme

Day 1 (Monday August 2, 2010)

8:30a – 9:00a Registration
9:00a – 9:15a Welcome note by IPTComm 2010 Chairs
9:15a – 10:15a Keynote I
The cybersecurity challenge
Dr. Steven M. Bellovin, Department of Computer Science, Columbia University

10:15a – 10:45a Coffee break

10:45a – 12:45p Track: Security

Technical Paper: *Introducing a cross federation identity solution for converged network environments*, Konstantinos Lampropoulos (University of Patras, GR); Daniel Diaz-Sanchez (Universidad Carlos III de Madrid, ES); Florina Almenares (Universidad Carlos III de Madrid, ES); Peter Weik (Fraunhofer FOKUS, DE); Spyros Denazis (University of Patras, GR)

Technical Paper: *Hidden VoIP Calling Records from Networking Intermediaries*, Ge Zhang (Karlstads Universitet, SE); Stefan Berthold (Karlstad University, SE)

Technical Paper: *Work in Progress: Inter-Domain and DoS-Resistant Call Establishment Protocol (IDDR-CEP)*, Patrick Battistello (Orange Labs, FR)

Technical Paper: *Work in Progress: A secure and lightweight scheme for media keying in the Session Initiation Protocol (SIP)*, Vijay K. Gurbani (Bell Laboratories, Alcatel-Lucent, US); Vladimir Kolesnikov (Bell Labs, US)

Industry Talk: *How would you say: "Alice called Bob?" -- The dangers of vaguely defined call records*, Sandra Tartarelli (NEC Laboratories, DE); Nico d'Heureuse (NEC Laboratories, DE); Saverio Niccolini (NEC Laboratories, DE)

Industry Talk: *Client agnostic authentication for VoIP endpoints*, Wilhelm Wimmreuter (InCharge Systems, AT)

12:45p – 2:00p Lunch

Day 1 (Monday August 2, 2010)

2:00p – 3:00p Keynote II
ISP and application collaboration
Dr. Anja Feldmann, Deutsche Telekom Laboratory/TU Berlin

3:00p – 4:00p Track: Deployment considerations and services architecture track (Session I)
Technical Paper: *Reusable features for VoIP service realization*, Thomas M. Smith (AT&T Labs Research, US)

Technical Paper: *Specification and Evaluation of Transparent Behavior for SIP Back-to-Back User Agents*, Gregory Bond (AT&T Research, US); Eric Cheung (AT&T Labs - Research, US); Thomas M Smith (AT&T Labs - Research, US); Pamela Zave (AT&T Laboratories, US)

4:00p – 4:30p Coffee break

4:30p – 6:00p Track: Performance of VoIP systems and networks
Technical Paper: *The Impact of TLS on SIP Server Performance*, Charles Shen (Columbia University, US); Erich Nahum (IBM T.J. Watson Research Center, US); Henning Schulzrinne (Columbia University, US); Charles P. Wright (IBM Research, US)

Technical Paper: *On TCP-based SIP Server Overload Control*, Charles Shen (Columbia University, US); Henning Schulzrinne (Columbia University, US)

Industry Talk: *Is QoS Sufficient for Estimating Visual Quality?*, Jeffrey Bloom (Dialogic Media Labs, US)

6:00p onwards Social event

Day 2 (Tuesday August 3, 2010)

9:00a – 10:30a Track: Deployment considerations and services architecture track (Session II)
Technical Paper: *A Novel Implementation of Very Large Teleconferences*, Eric Cheung (AT&T Labs - Research, US); Gerald M Karam (AT&T, US)

Technical Paper: *CCMP: a novel standard protocol for Conference Management in the XCON Framework*, Simon Pietro Romano (University of Napoli Federico II, IT); Henning Schulzrinne (Columbia University, US); Roberta Presta (University of Napoli Federico II, IT); Lorenzo Miniero (University of Napoli Federico II, IT); Mary Barnes (Nortel, US)

Technical Paper: *Work in Progress: Black-Box Approach for Testing Quality of Service in Case of Security Incidents by Combining Multiple Test Techniques on the Example of a SIP-based VoIP Service*, Peter Steinbacher (Vienna University of Technology, AT); Florian Fankhauser (Vienna University of Technology, AT); Schanes (Vienna University of Technology, AT)

Industry Talk: *SailFin CAFE - Portable framework for next generation converged applications*, Ramesh Parthasarathy (Sun Microsystems Inc., IN); Binod PG (Sun Microsystems, IN); Barbara Pareglio (Ericsson, NL); Erik van der Velden (Ericsson, NL)

10:30a – 11:00a Coffee break

Day 2 (Tuesday August 3, 2010)

11:00a – 12:30p Track: Peer-to-Peer in IP Telephony

Technical Paper: *Reliability and Relay Selection in Peer-to-Peer Communication Systems*, Salman Abdul Baset (Columbia University, US); Henning Schulzrinne (Columbia University, US)

Technical Paper: *A Virtual and Distributed Control Layer with Proximity Awareness for Group Conferencing in P2PSIP*, Alexander Knauf (HAW Hamburg, DE); Gabriel Hege (HAW Hamburg University of Applied Sciences, DE); Thomas C. Schmidt (HAW Hamburg (DE), DE); Matthias Wählisch (Freie Universität Berlin, DE)

Technical Paper: *Pr2-P2PSIP: Privacy Preserving P2P Signaling for VoIP and IM*, Ali Fessi (Technische Universität München, DE); Nathan Evans (Technische Universität München, DE); Heiko Niedermayer (TU Munich, DE); Ralph G Holz (Technische Universität München, DE)

12:45p – 2:00p Lunch

2:00p – 3:15p Track: Deployment considerations and services architecture track (Session III)

Technical Paper: *Online Non-Intrusive Diagnosis of One-Way RTP Faults in VoIP Networks Using Cooperation*, Alessandro Amirante (University of Napoli Federico II, IT); Simon Pietro Romano (University of Napoli Federico II, IT); Henning Schulzrinne (Columbia University, US); Kyung Hwa Kim (Columbia University, US)

Technical Paper: *Work in Progress: A Communications-Enabled Collaboration Platform: Framework, Features, and Feature Interactions*, John Buford (Avaya Labs Research, US); K. Kishore Dhara (Avaya Labs Research, US); Venkatesh Krishnaswamy (Avaya Labs Research, US); Xiaotao Wu (Avaya Labs Research, US); Mario Kolberg (University of Stirling, UK)

Industry Talk: *A web services approach to the IMS transparent data*, Brett Brock (Cox Cable, US)

3:15p – 4:00p Coffee break

4:00p – 6:30p Demonstrations, including guided tours of Leibniz Supercomputing Center.

Demonstration: *Security and access control for future home networks*, Holger Kinkel, Andreas Müller, and Georg Carle (Technische Universität München)

Demonstration: *Prototypical implementation of ALTO client and ALTO server and integration into P2P live streaming software*, Jan Seedorf and Saverio Niccolini (NEC Laboratories, Europe); Renato Lo Cigno and Csaba Kiraly (University of Trento)

Demonstration: *Bridging the communications and the physical world: Sense everything, control everything*, Omer Boyaci, Victoria Beltran and Henning Schulzrinne (Columbia University)

Demonstration: *An H.264-compliant multipoint compliant video conferencing with adaptive, temporally scalable support for mobiles*, Gabriel Hege (Daviko GmbH), Thomas C. Schmidt (HAW Hamburg), Matthias Wählisch (Freie Universität Berlin)

Demonstration: *Formal models of SIP – Some practical uses*, Eric Cheung, Gregory W.

Bonds, Thomas M. Smith and Pamela Zave (AT&T Labs – Research)

Demonstration: *Towards multimedia continuity by network virtualization: Demonstration and verification of buffering in virtual routers*, Albert Rafetseder and Kurt Tutschku (University of Vienna)

Demonstration: *Conference session recording: A standard approach*, Alessandro Amirante, Tobia Castaldi, Lorenzo Miniero, and Simon Pietro Romano (University of Napoli)

Demonstration: *A honeypot back-end to support security in VoIP domains*, Rodrigo D. do Carmo (Universidad Blas Pascal) and Mohamed Nassar (Loria-INRIA)

7:30p onwards Dinner

Last modified: Jul 21, 2010.