



Hands-On Workshop

July 20-21 , 2005

Joint Techs Workshop

Vancouver, BC, Canada

SIP.edu Workshop

Program Committee

Dennis Baron	Massachusetts Institute of Technology
Steve Blair	University of Pennsylvania
Phil Coolick	Pennsylvania State University
Ed Guy	Pulver.com
Walt Magnussen	Texas A&M University
Chris Norton	Texas A&M University
Ben Teitelbaum	Internet2

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Instructors

Dennis Baron	Massachusetts Institute of Technology
Ed Guy	Pulver.com
Chris Norton	Texas A&M University
Ben Teitelbaum	Internet2

Guest Speakers

Karl Krueger	WHOI
Don Robertson	AARNet

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Working Agenda

Wednesday - July 20, 2005

1:00 - 1:30 pm

Introductions and Workshop Overview - Dennis

- * Workshop logistics**
- * Workshop goals**
- * Introductions**

1:30 - 2:30 pm

SIP Basics - Dennis

- * What is SIP?**
- * SIP system components**
- * SIP messages and responses**
- * SIP call flows**
- * SDP basics/CODECS**
- * SIP standards**

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Working Agenda

Wednesday - July 20, 2005

2:30 - 3:15 pm

SIP.edu Architecture - Dennis

- * SIP.edu motivation**
- * SIP.edu architecture**
- * SIP.edu components**
- * Dial plan**

3:15 - 3:30 pm BREAK

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Working Agenda

Wednesday - July 20, 2005

3:30 - 3:45 pm

SIP Proxy/Registrar - Ed

- * Proxy and registrar review**
- * SER/BlueLava configuration**

3:45 - 5:00 pm

Hands-on: configuring SIP proxy and registrar

- * SIP configuration**
- * LDAP configuration**
- * SIP account set up**

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Thursday - July 21, 2005

8:30 - 9:00 am

SIP Proxy/Registrar - Ed

- *Review of hands-on session**
- * SER configuration file**

9:00 - 9:30 am

DNS Configuration - Ed or Chris

- * DNS Basics**
- * SRV Records**
- * NAPTR Records**
- * ENUM**
- * Testing**

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Thursday - July 21, 2005

9:30 - 10:00 am

SIP user agents ("clients") - Ben

- * Soft phones**
- * Hard phones**
- * Mobile devices**

10:00 - 10:15 am BREAK

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Thursday - July 21, 2005

10:15 - 11:30 am

Hands-on: configuring a SIP client

*** Configuring soft phones**

- Xten

- Windows Messenger

*** Configuring hard phones**

- Cisco

- Siemens

- Polycom

*** Debugging SIP registration and calling**

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Thursday - July 21, 2005

11:30 - 12:00 noon

Centralized Device Configuration - Karl

- * Why centrally configure?**
- * Different config approaches from vendors**
- * Multi-vendor configuration**
- * Architecture of WHOI's configuration system**

12:00 - 1:00 pm LUNCH

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Thursday - July 21, 2005

1:00 - 1:45 pm

AARnet VoIP Service Update - Don Robertson

1:45 - 2:15 pm

Directory Integration Discussion - Ben?

- * Directory options**
- * LDAP integration and testing**
- * Policy issues**

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Thursday - July 21, 2005

2:15 - 3:00 pm

Gateways - Dennis or Ed or Chris

- * Gateway basics**
- * PRI/T1 basics**
- * Cisco example**
- * Dial peers**
- * Gateway and PRI debugging**

3:00 - 3:15 pm BREAK

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Thursday - July 21, 2005

3:15 - 4:00 pm

Other SIP.edu options - Dennis or Ben

- * Cisco**
- * Avaya**
- * SIPfoundry**

4:00 - 5:00 pm

Wrap-up - Dennis or Ben

- * Final questions**
- * Workshop plus/delta**
- * Ideas for followup workshops**

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Working Web Site

<http://www.internet2.edu/sip.edu/200507-workshop/>