



Massachusetts Institute of Technology

SIP.edu Peering - By the Numbers

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SIP.edu Addressing

- sip:dbaron@mit.edu
 - Domain name provides the peering
- Most schools also support sip:21232@mit.edu
 - Allows calling to PBX phones and services that don't have email equivalents
 - Allows dialing from “12-digit” keypad – SIP devices use Registrar as the domain name
 - Allows dialing from PBX to SIP users via numeric alias
- Other SIP service providers
 - Tend to use numeric user names – eg. sip:55555@fwd.pulver.com
 - Many focus support on terminal adapters with “dumb” phones
 - Use access codes for peering – eg: dial **393 plus 55555



Addressing Methods

- Soft phone
 - Uses computer QWERTY keyboard
- Hard phone with web interface
 - Must login to phone; need access to a PC
- Third party call control
 - Must login to server; need access to a PC
- URL dialing from phone keypad
 - Awkward; no standards – where's the @ at?
- 12-button keypad only
 - The least common denominator

Service Provider Peering Examples

- Free World Dialup - sip:55555@fwd.pulver.com
 - **478 + # for iptel.org
 - **747 + # for SIPphone.com
 - **2431 + # for Vonage
- SIPphone – sip:17476698000@proxy01.sipphone.com
 - 1393 + # for Free World Dialup
 - 1477 + # for iptel.org
- Vonage - ?
 - 011 0 393 + # for Free World Dialup
- Some attempt to use standard codes
 - 393 is FWD – Free World Dialup
 - 747 is SIP – SIPphone.com
 - 338 is EDU - ?



SIPphone.com–UCSD.edu Example

- SIPphone.com customers dial 1 858 534 2230
 - Same as PSTN dialing
 - Others can call sip:18585342230@proxy01.sipphone.com
- UCSD PBX phones dial 9 1 747 669 8000
 - Same as PSTN dialing
- Cookbook at:
<http://www.sipphone.com/university/resources.html>



Discussion

- Is this something that we should address?
- Do we want to support PBX calling to SIP service providers?
- Do we want to terminate calls from SIP service providers?
- Do we want to terminate calls from PSTN service providers?
- What are the options?
- What are the “rules”?
- What are the issues?