

IP-telephony - an enabler for converged communications

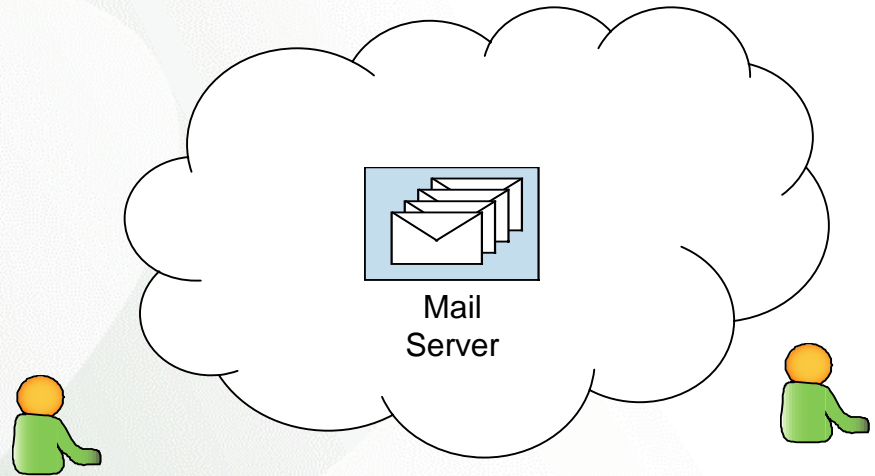
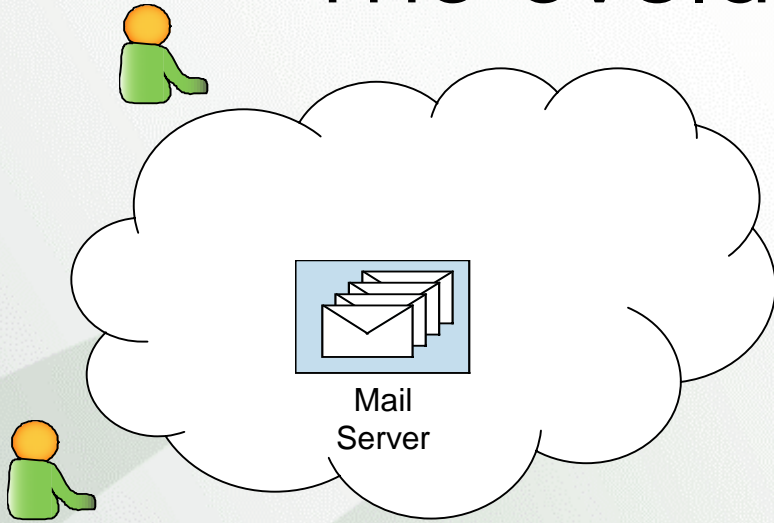
Jörgen Björkner

VP Concept Development

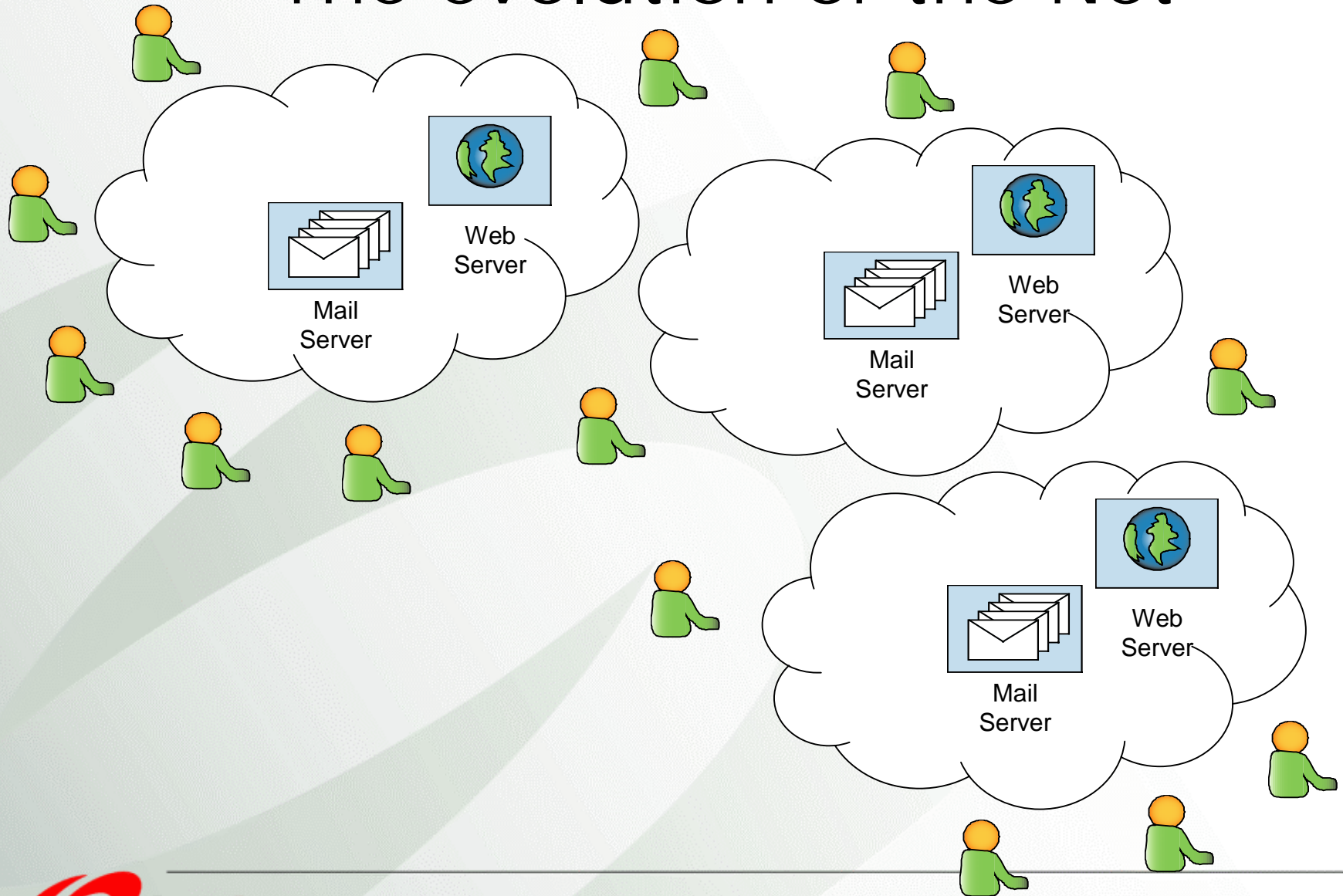
jorgen.bjorkner@hotsip.com

www.hotsip.com

The evolution of the Net



The evolution of the Net



Basic problem

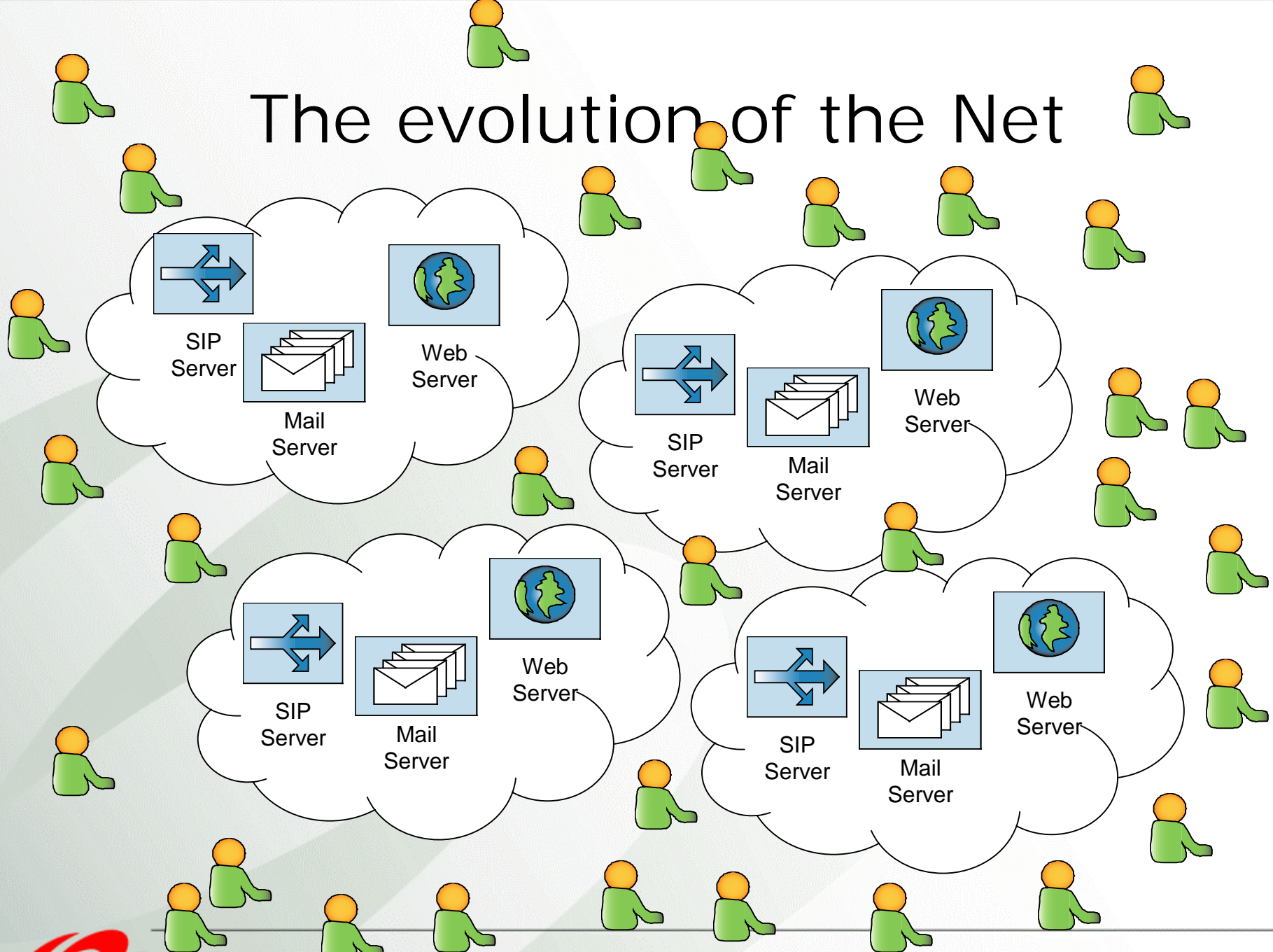
- How to find a party to communicate with?
- How to get attention from the user that you want to communicate with
- Select a way to communicate



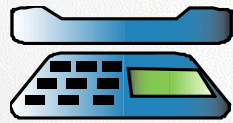
SIP User Addressing

- Re-uses DNS!
- Email style address, use email address for telephony!
 - info@operator.com
- DNS used by device to find SIP server in the domain
 - info@sipserver.operator.com
- SIP Server resolves address to current location of the user
 - johan@computer.mydomain.com
- Possible to map telephone numbers to SIP addresses
 - +46890510@operator.com

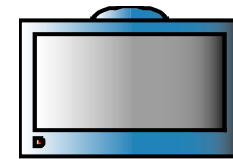
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SIP is about All Communication



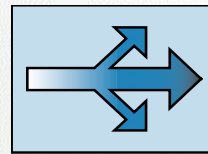
Telephony



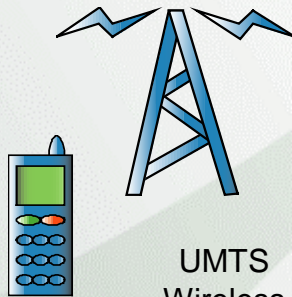
Video Conferencing



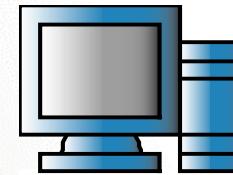
Instant Messaging



SIP Proxy

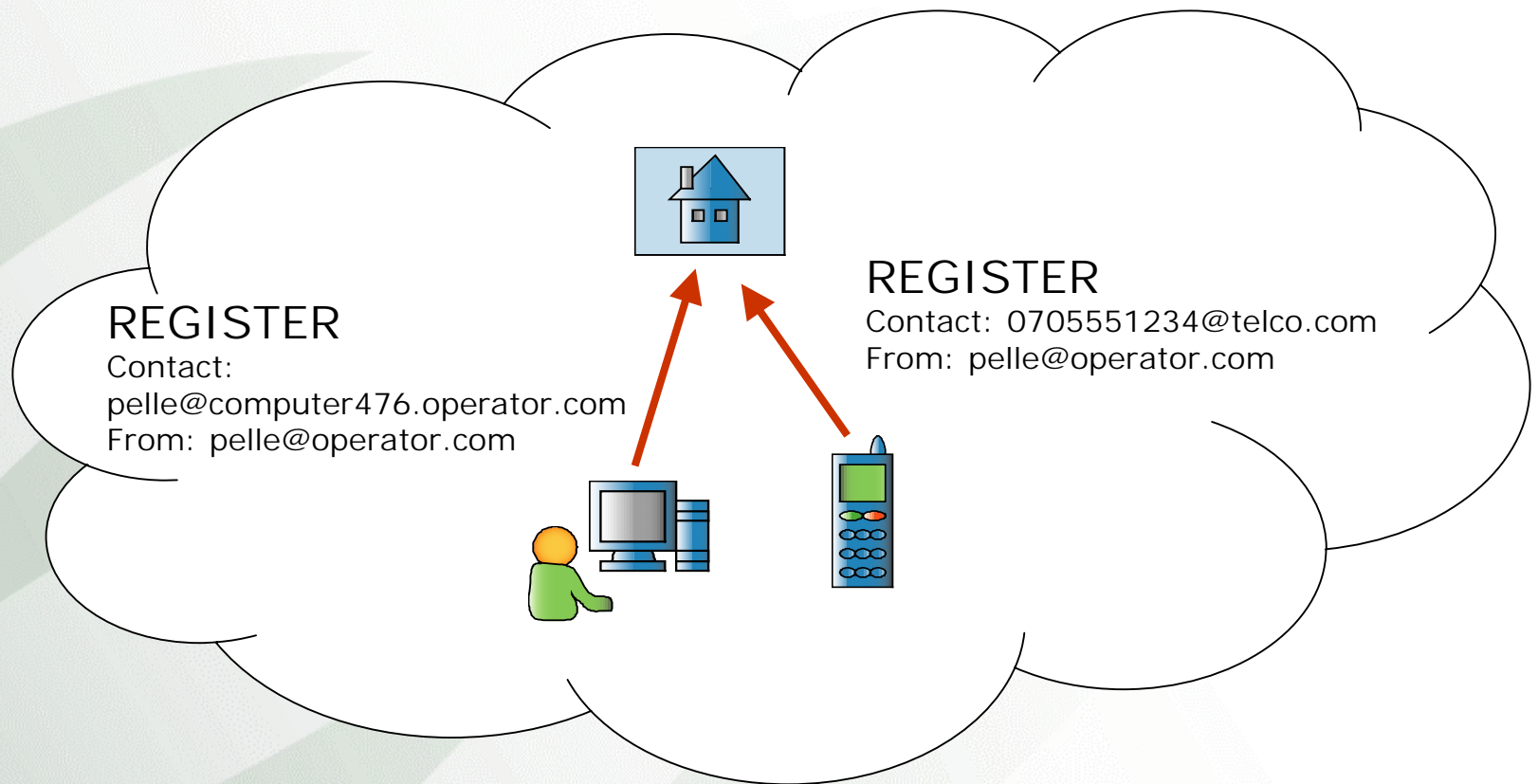


UMTS Wireless

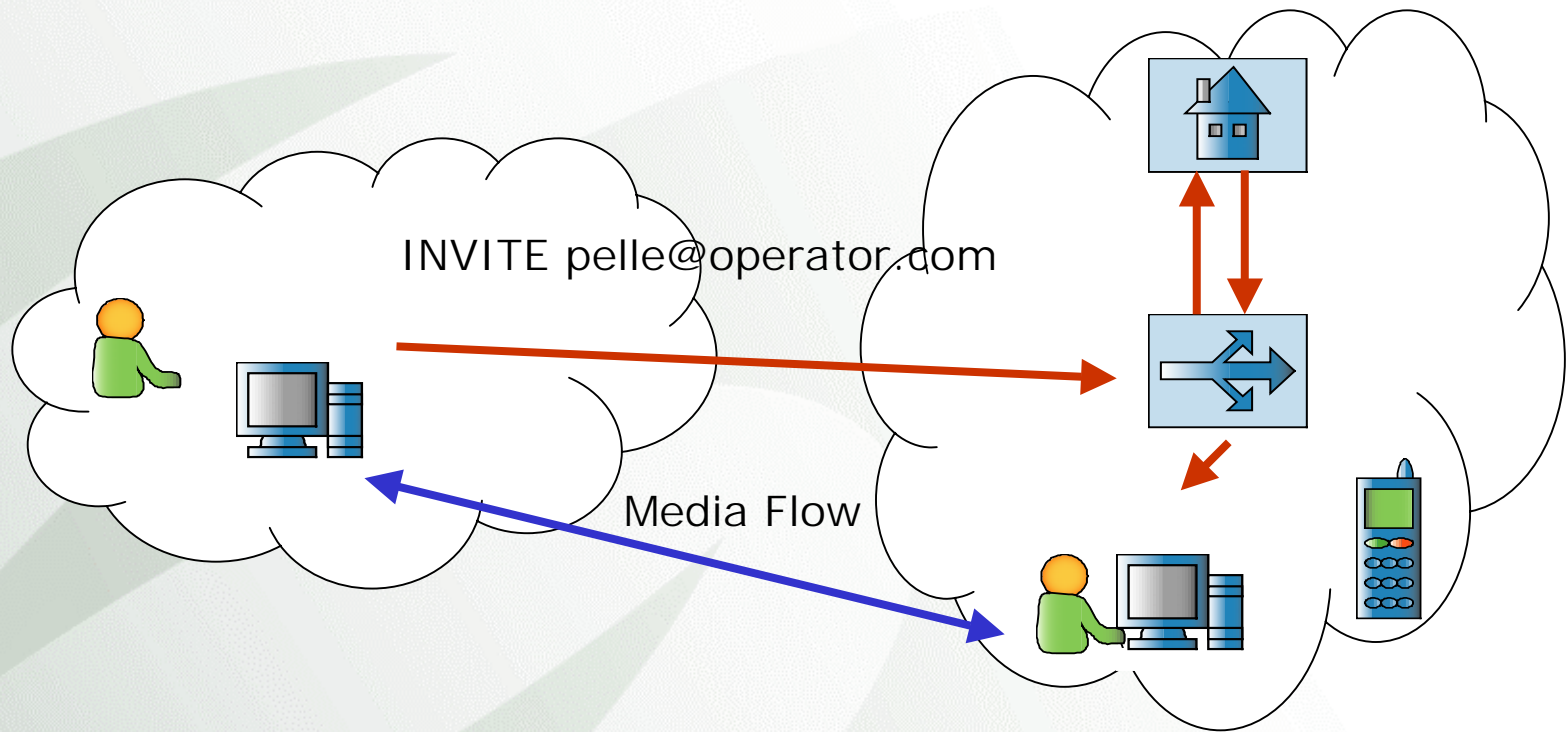


Gaming

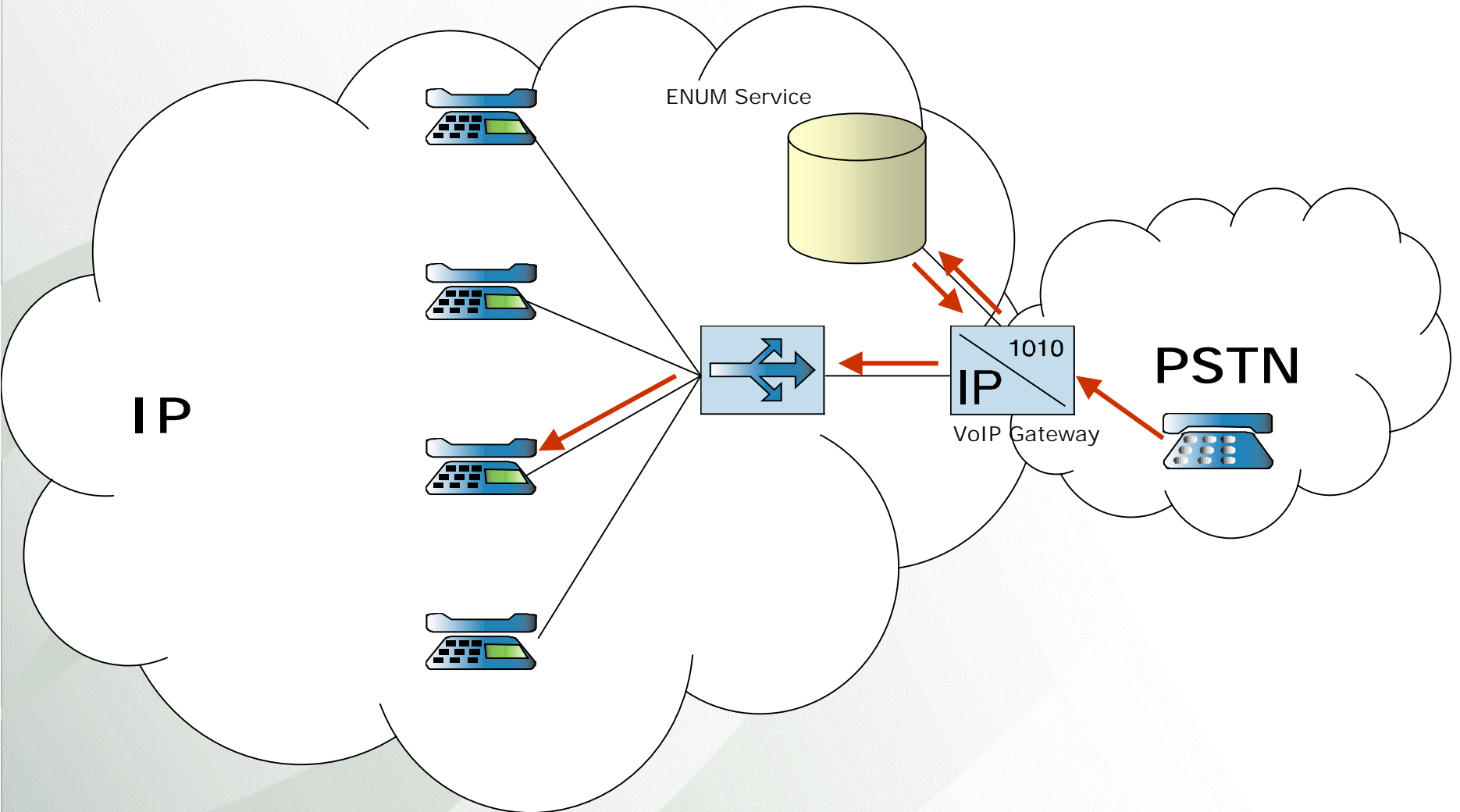
User Mobility



Communication Setup



Number format translation

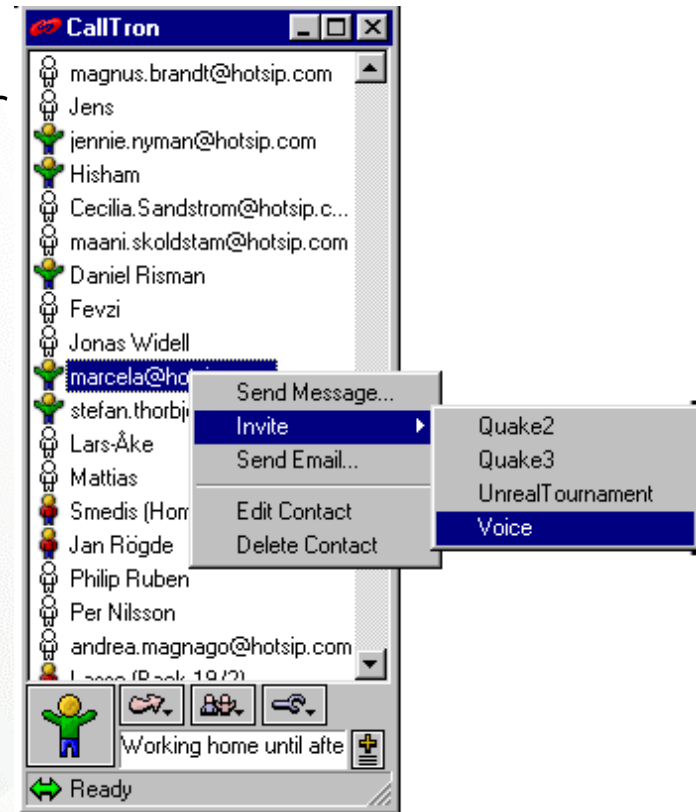


Bridging between E.164 numbers & SIP addresses

- ENUM (Telephony Number Mapping)
 - Input: Telephone number
 - Output: List of URLs
 - Associated email address, SIP address, web page etc.
 - +46706662326 maps to
6.2.3.2.6.6.6.0.7.6.4.e164.foo

Polite communications

- Presence enabled addressbook
 - See if people is available for communication
 - Launch appropriate communication channel
 - Multiplayer game
 - Shared white board
 - Instant messaging
 - Control desktop phone
 - VoIP call



Future applications

- UMTS wireless networks
 - Wireless video conferencing
- Contact centers
- Multimodal communications
 - Combine multiple media and devices in same session
 - Voice recognition
 - Grapical user interface

Summary

- IP infrastructure foundation for communication services
- A single SIP server infrastructure enables many media sessions
- The communication follows the user
- Voice is one media among many others
- Communication integrated with other applications