

Unified Communications **over IP**

IP BRICK®

for **ORACLE**

UCoIP

Agenda

- ◆ Ways of Communicating
- ◆ The importance of VoIP
- ◆ UCoIP
- ◆ Distributed UCoIP
- ◆ UCoIP steps
- ◆ Questions

Ways of Communicating

- ◆ 20 years ago Communications were reduced only to Voice
- ◆ Not today!

Then, why all the talk about IP
PBX?

20 years later do we still only
use Voice?

Ways of Communicating

- ◆ Voice and Video
 - Connection with existing PBX
 - External routing through VoIP providers
 - IP PBX Multimedia
- ◆ Mail
 - Mail Relay
 - WebMail
- ◆ Instant Messaging
 - Professional Chat
 - Integration with selected MSN users

Ways of Communicating

- ◆ Web
 - Corporate Portal
 - WebPhone
 - WebChat
- ◆ Fax
 - Fax 2 Mail
 - Mail 2 Fax
- ◆ SMS
 - SMS 2 Mail
 - Mail 2 SMS

The importance of VoIP

Unified Communications basis?

VoIP

(Voice over IP)

The importance of VoIP

Unified Communications basis:

VoIP

Mail

IM

WEB

UCoIP

- ◆ Wouldn't it be better to mention:

UCoIP

(Unified Communications over IP)

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Unified Communication basis:

Mail

WEB

VoIP

IM

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Unified Communication support:

DNS

LDAP

ENUM (?)

Communication addresses in UCoIP:

- Mail : oliveira@ipbrick.com
- Voice/Video: oliveira@ipbrick.com
- IM: oliveira@ipbrick.com
- Web: oliveira.ipbrick.com

DNS is essential in UCoIP:

- Mail : **MX** record for **SMTP**
- Voice: **SRV** record for **SIP**
- IM: **SRV** record for **XMPP**
- Web: **A** record for **HTTP**

Communications Protocols of UCoIP Services:

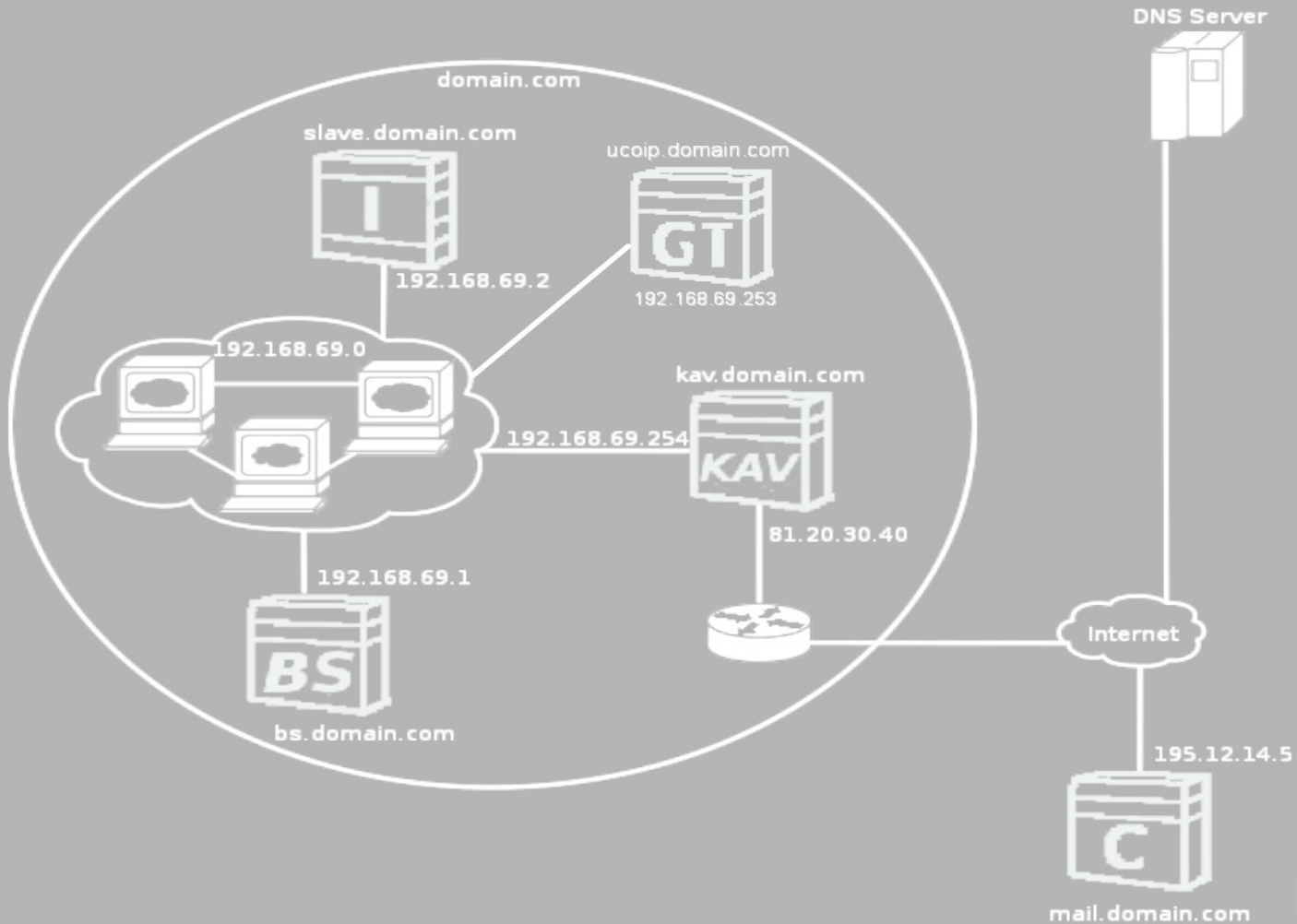
- Mail : **SMTP/POP3/IMAP**
- Voice, Video and FAX: **ISDN/Analog/SIP**
- IM: **XMPP**
- Web: **HTTP/HTTPS**

Distributed UCoIP

UCoIP within and outside the office

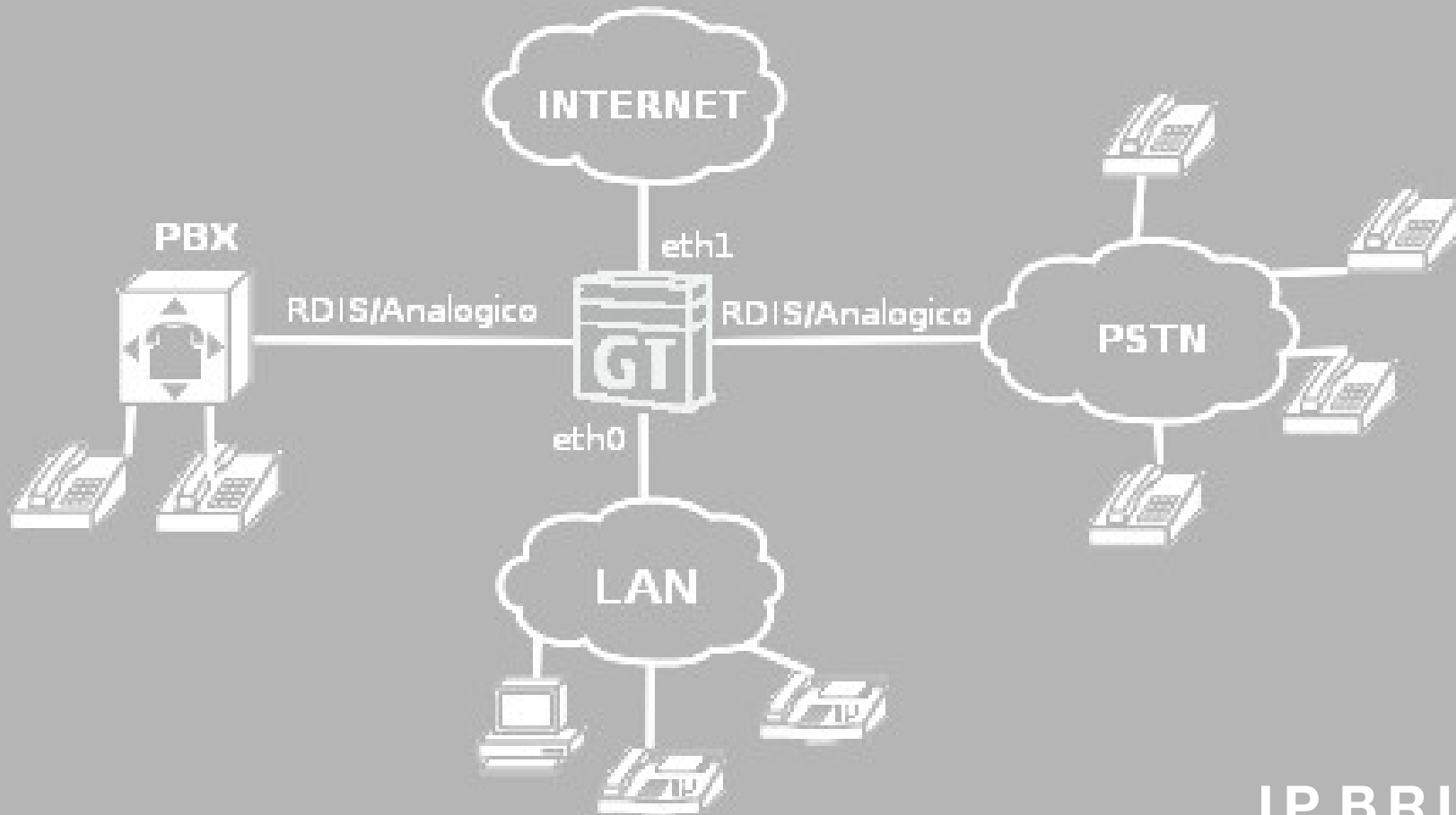
- ◆ Within the Intranet, the services location is defined by the **internal DNS (private)**
- ◆ On Internet, the services location is defined by the **external DNS (public)**

Distributed UCoIP



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Distributed UCoIP



UCoIP steps

How are Communications handled?

- Determine the services location
- Servers communicating with each-other
- Peers Communication

UCoIP steps

- ◆ Calling **raul.oliveira@ucoip.pt**
- ◆ Finding **ucoip.pt** SIP server through DNS
- ◆ Delivering call to **raul.oliveira** SIP address
- ◆ There is no **raul.oliveira** SIP device

UCoIP steps

- ◆ **raul.oliveira** is an alias
- ◆ LDAP service converts the alias into a SIP device **phone@ucoip.eu** (different domain)
- ◆ Finding the new domain SIP server through DNS **voip.ucoip.eu**
- ◆ The session is now transferred to the new domain SIP server

UCoIP steps

- ◆ The SIP server from the domain **ucoip.eu** delivers the call to the device **telefone@ucoip.eu**
- ◆ Peers are now in conversation
- ◆ If not, the message will be delivered to **raul.oliveira@ucoip.pt**
- ◆ To the **mail.ucoip.pt** SMTP server

Questions

Thank You

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