How to get control over email?

Patrik Fältström paf@cisco.com

The discussion is wrong!

- ◆ I am of the view people attack the spam problem from the wrong angle
 - ◆ Look for a solution
 - ◆ Fine-tune it
 - Look for a problem the solution solves

Alternative method

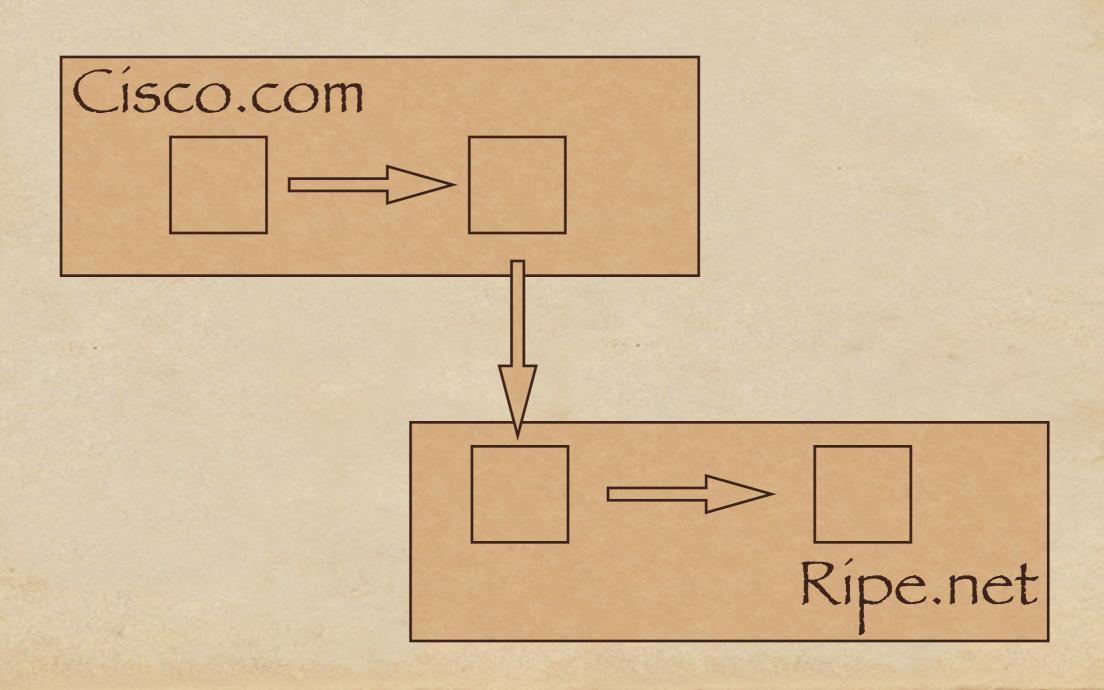
- ◆ Look at the problem
- Agree on what the problem is
- Find a solution to the problem

How is SMTP used?

- ◆ In many ways...
- ◆ Between many different entities...
- Spam, worms, trojans etc are injected in a "proper" mail flow...
- ◆ How, when where?

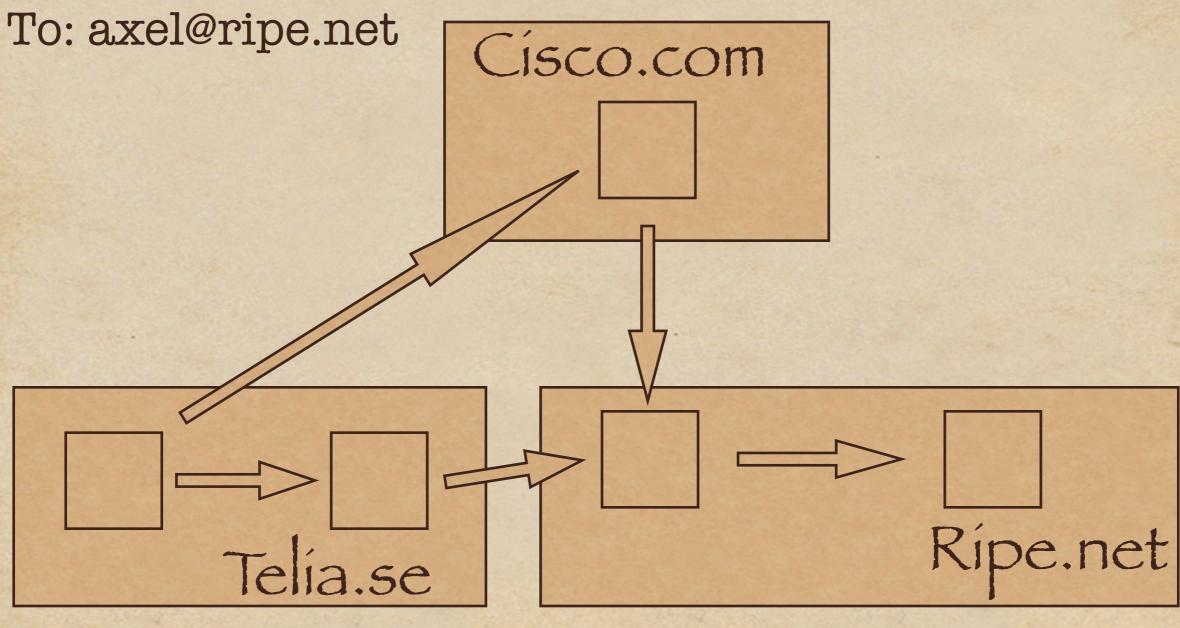
Basic flow

From: paf@cisco.com



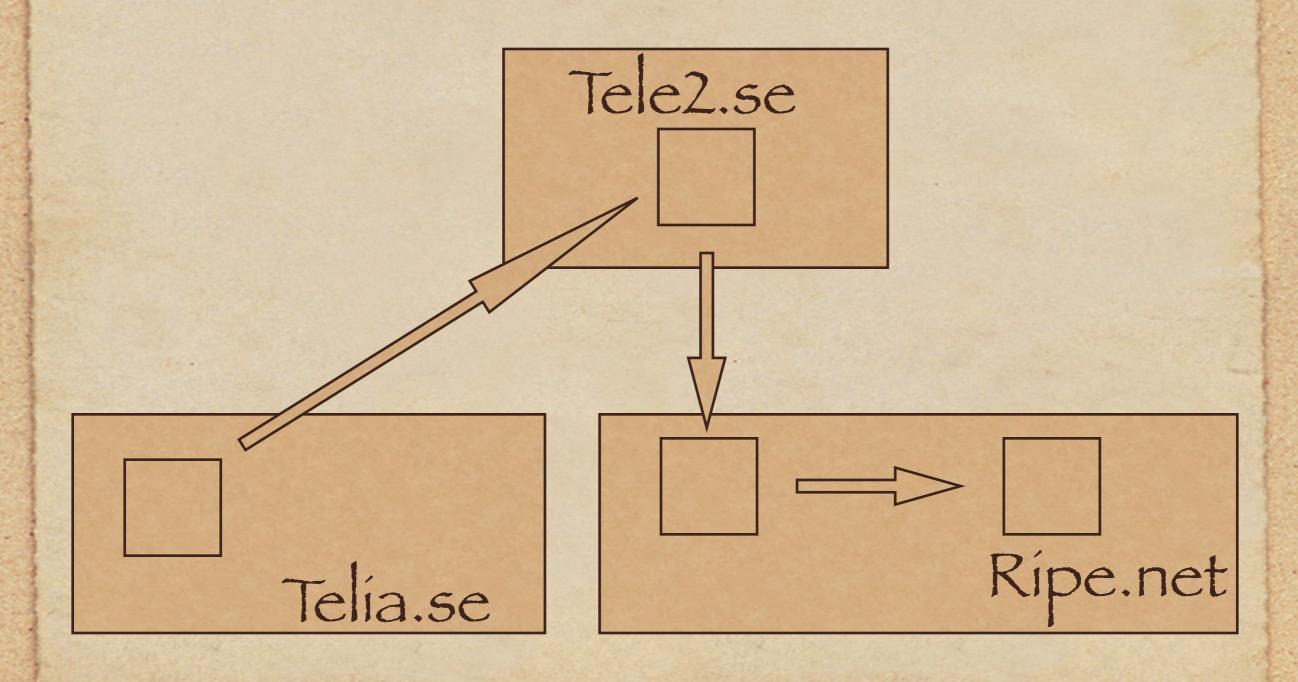
From foreign domain

From: paf@cisco.com



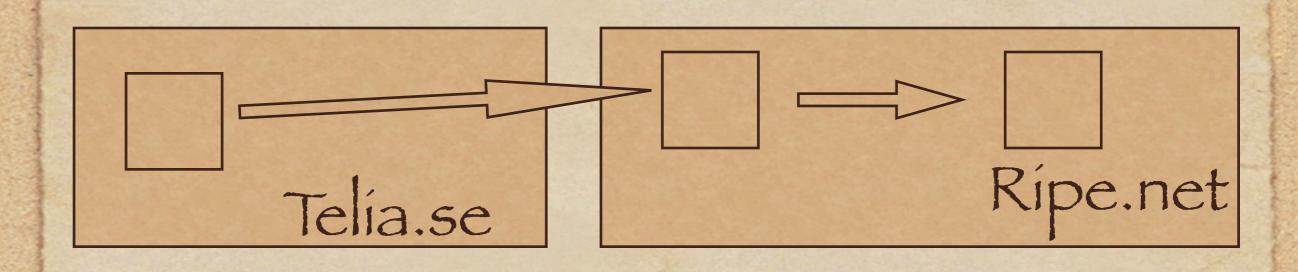
Open relay

From: paf@cisco.com

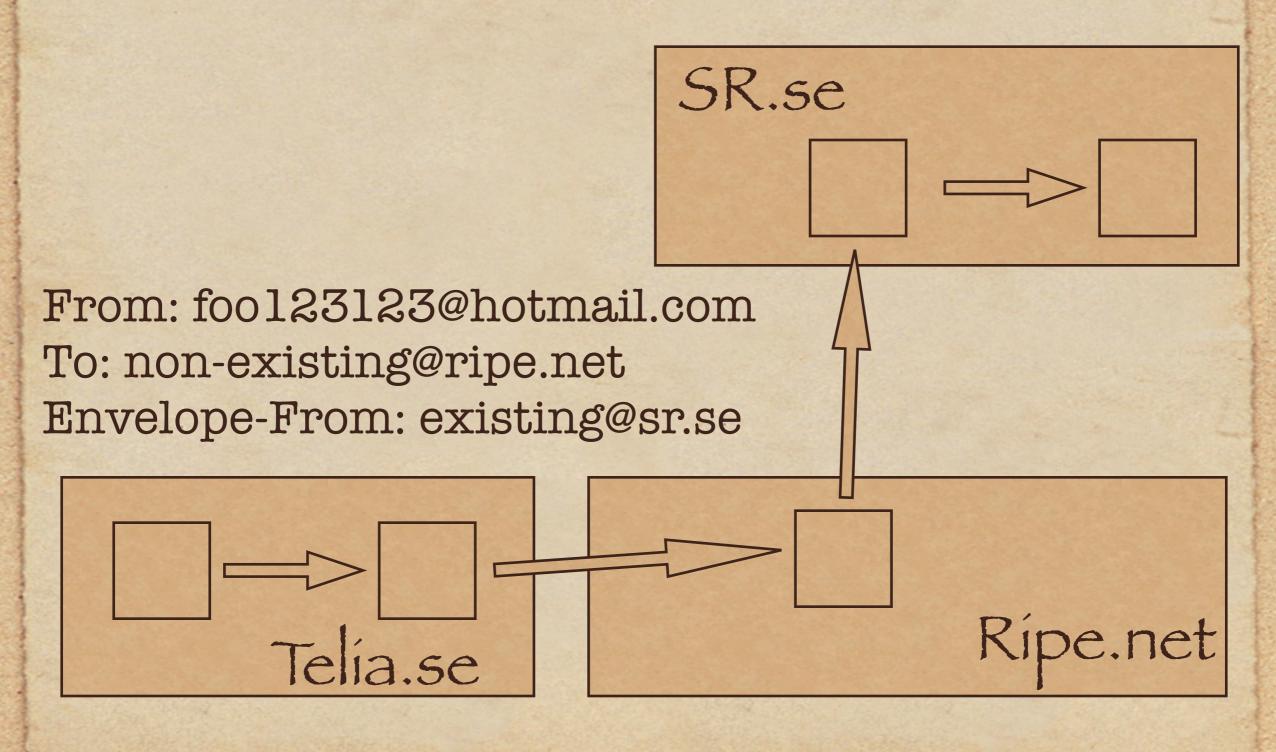


Direct

From: paf@cisco.com

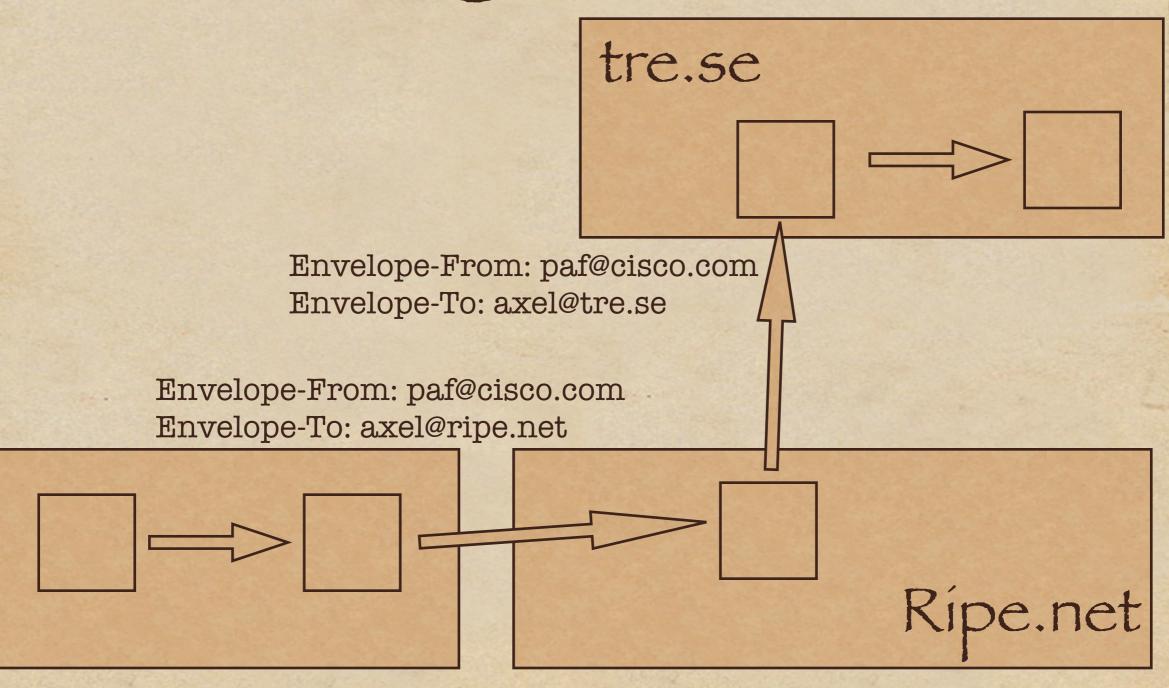


Bounce



Forwarding

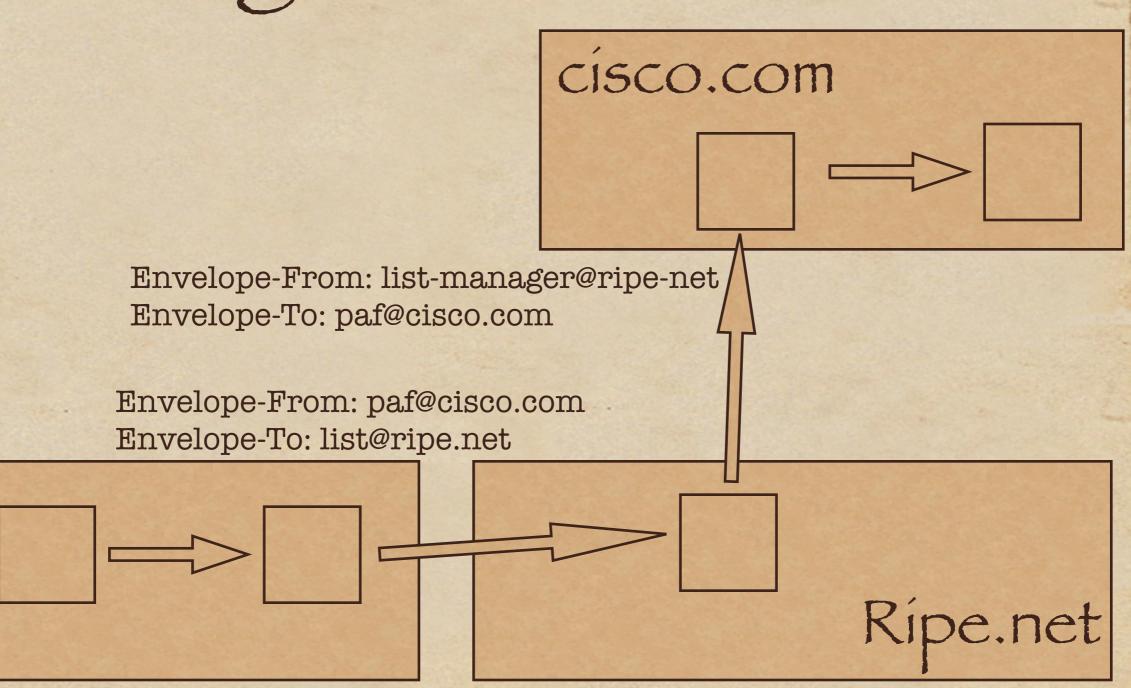
From: paf@cisco.com

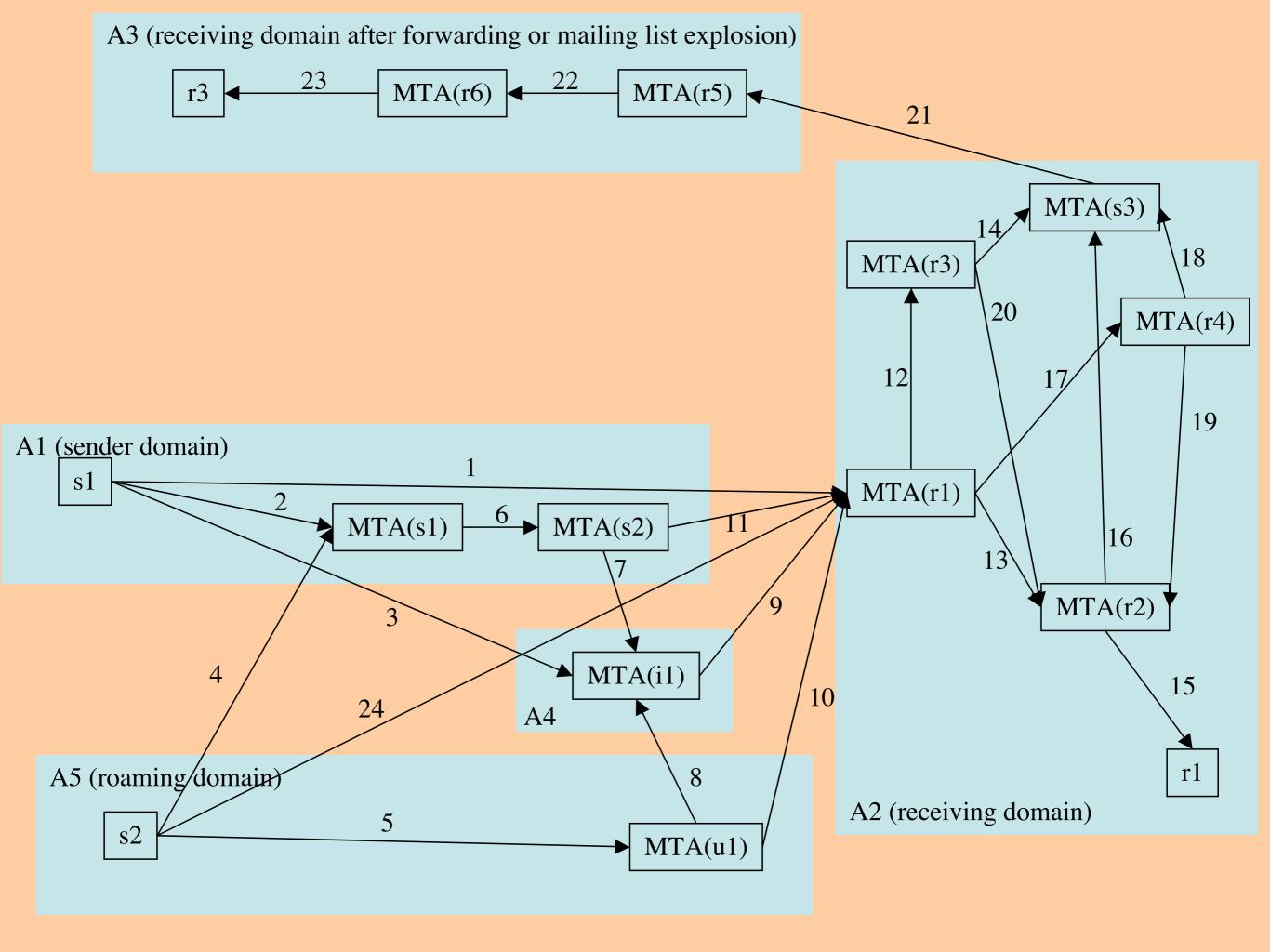


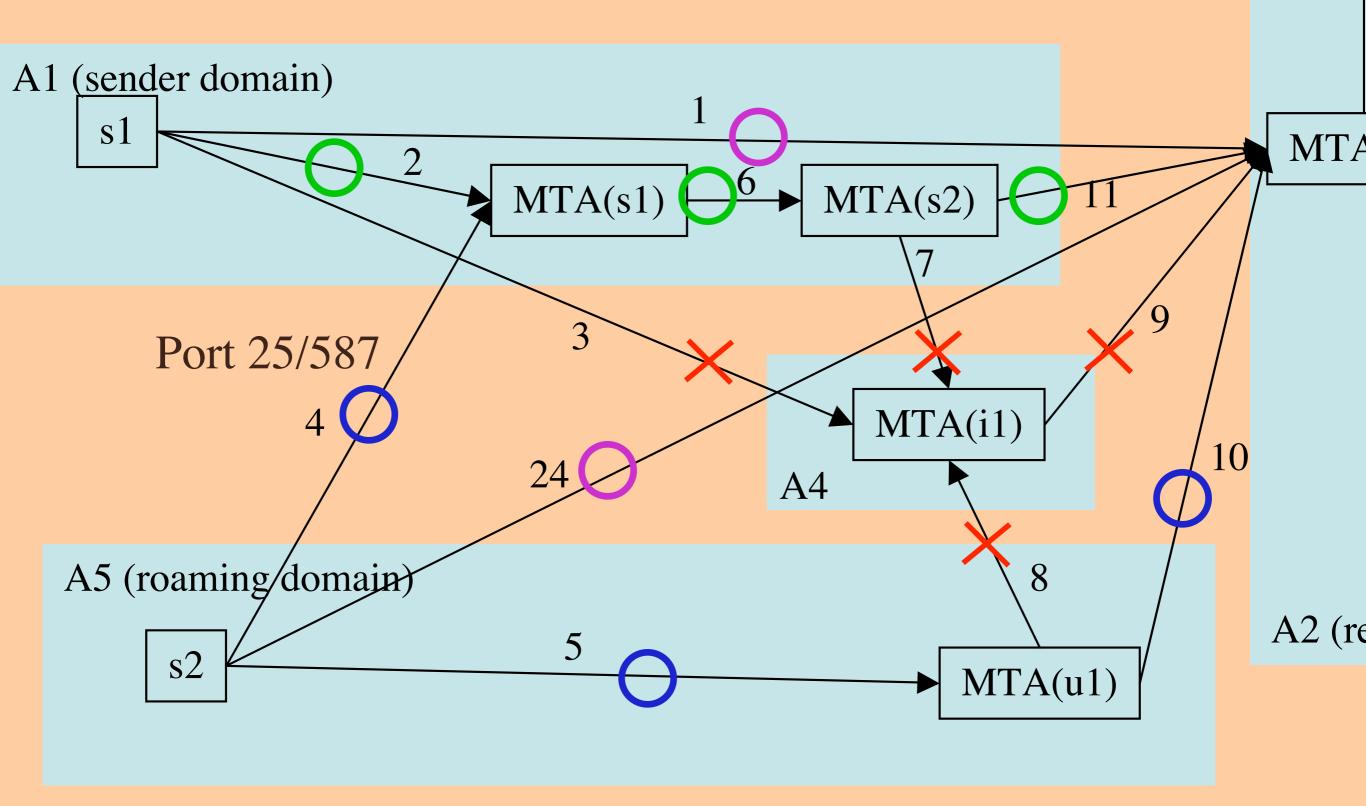
Mailing list

From: paf@cisco.com

To: list@ripe.net







Open questions 1(3)

- ◆ Should open relays be blocked?
 - ◆ What to do with things like ieee.org?

- ◆ Personal view: Absolutely!
- ◆ Community view: Yes, but...

Open questions 2(3)

- Must an email always pass an outgoing SMTP-relay?
 - What about people having an MTA on their laptop?
- Personal view: Yes, if the policy of sending domain says so
- ◆ Community view: But but...

Open questions 3(3)

- ◆ Should an MUA use always "home"

 SMTP server, or the outgoing SMTP relay provided by the ISP he currently uses?
- Personal view: Always home MTA
- Communitu view: ISP's are blocking See RFC 2476 about SMTP submit port 587

Two kind of proposals

- ◆ Signing mail (authenticate sender)
- "Reverse MX" and other DNS based

Followup issues

- Proposals will "just" make it possible to know who the mail comes from
- Proposals work on envelope sender, but many people working with anti-spam don't know the difference, or want to secure header-from...
 - (which I see as a much harder problem due to mailing lists etc)

Me think...

- We need:
 - ◆ Technical methods to track violators
 - Legislation
 - ◆ Police (etc) which do the tracking

◆ IETF (etc) only work with the 1st of these

Patrik Fältström

paf@cisco.com

