# Overview of the Proceedings Office Setup at EPAC'08

*Ivan Andrian*

ivan.andrian @ elettra.trieste.it

# Agenda

- ✔ Computer needs & choices

- ✔ Networking

- ✔ File Upload & PDF creation

# Computing overview

ivan.andrian @ elettra.trieste.it
SINCROTRONE TRIESTE S.C.p.A.
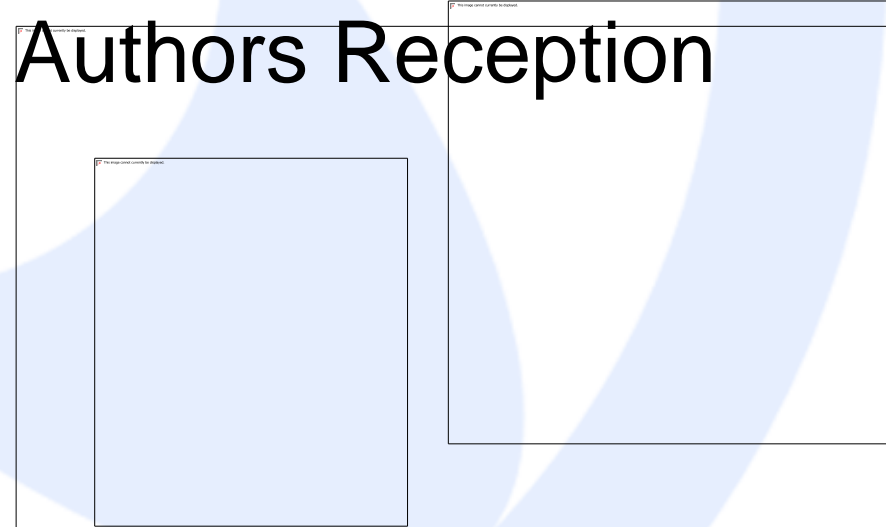
# Computer needs

- 1 paper café (paper editing)

- 1 Internet café (email, browsing, etc.)

- 1 Proceedings Office + Authors Reception

- 1 "Slide Center"

- 1 registration area

- ~ 90 computers

  - of which 11 were notebooks

6 laser printers

# Computer Choices

- Almost all computers were rented

  - 120~160€ each for 2 weeks

  - ~ 10 from the labs (exp. notebooks)

- Mix of Windows, Mac & Linux

- Several (9, high-level) Wi-Fi hot spots for delegates' laptops

# Networking

# Networking needs

- High available
- Performing (for Editors)
- Pervasive (venue layout...)
- "Easy"
- Cheap
- Italian law - compliant

elettra

ivan.andrian @ elettra.trieste.it
SINCROTRONE TRIESTE S.C.P.A.

# How to jump onto the Internet

- ## Two Internet connections, two networks

    - ### Privileged, for Proceedings Office & Friends

        - 2 x 2Mbps (aggregated) CDN lines on GARR (Italian Research Network)     *6,300€ + VAT*

    - ### Unprivileged, for general use

        - 1 x 10Mbps F.E. Unprivileged on commercial line (Fastweb) *1,500€ + VAT*

    - ### That's more...

        - 2 ADSL *backups* (10/2 Mbps)... *430€ + VAT*

ivan.andrian @ elettra.trieste.it
SINCROTRONE TRIESTE S.C.P.A.

# Networking possibilities

- ## By cable
  - ### Internet/Paper Café: one spare cable every provided PC for delegates' laptops

- ## Wireless
  - ### Main areas of the venue covered
    – Including Industrial Exhibition
    – Excluding, if possible, oral sessions rooms

# Italian Law (Pisanu)

*[...] according to the Italian Law 155/2005, access to the Internet from public places is permitted only for 'identifiable people'.*

*For this reason [...] we need to collect a copy of your photo ID beforehand.*

- We know, it's not so nice, but we are obliged to it!

- Photo IDs and traffic logs (*"who connected to the Internet in which time slots"*) will be kept for 4 years.

# The solution

- ## Two networks, two **captive portals**

    - ### Photo IDs pre-collected via SPMS (custom package) or during the conference

    - ### "Good" usernames exported, random passwords generated

    - ### When an "unknown" device tries to connect, ask for authentication

# The process

Hello, how do I Internet?

**Internet Access Desk**
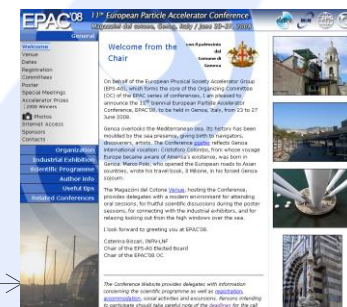
*manual check*

user.name

user.name
p4s55w0rd

00012999
p4s55w0rd

www.epac08.org

*Who are you?*

**CP**

user.name
p4s55w0rd

ivan.andrian @ elettra.trieste.it
SINCROTRONE TRIESTE S.C.p.A.

# Some statistics

- **167** UTP cables (**784**m in total!)

- 2 routers, 2 captive portal/firewall servers

- Privileged network connections:
    - **68** different people
    - **93** different devices

- Delegates network connections:
    - **941** different people
    - **866** different devices

**965** people

**929** devices

# Some statistics
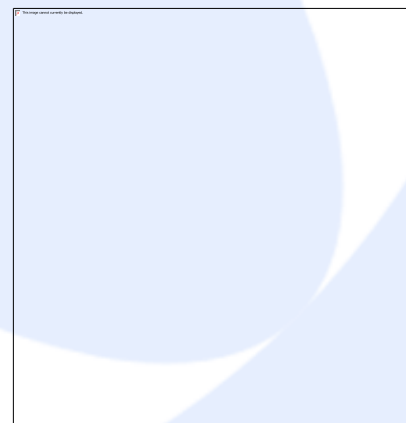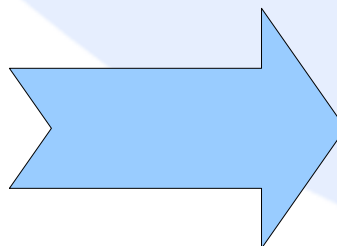
- ● Concurrent wireless devices

# File upload & PDF creation

ivan.andrian @ elettra.trieste.it
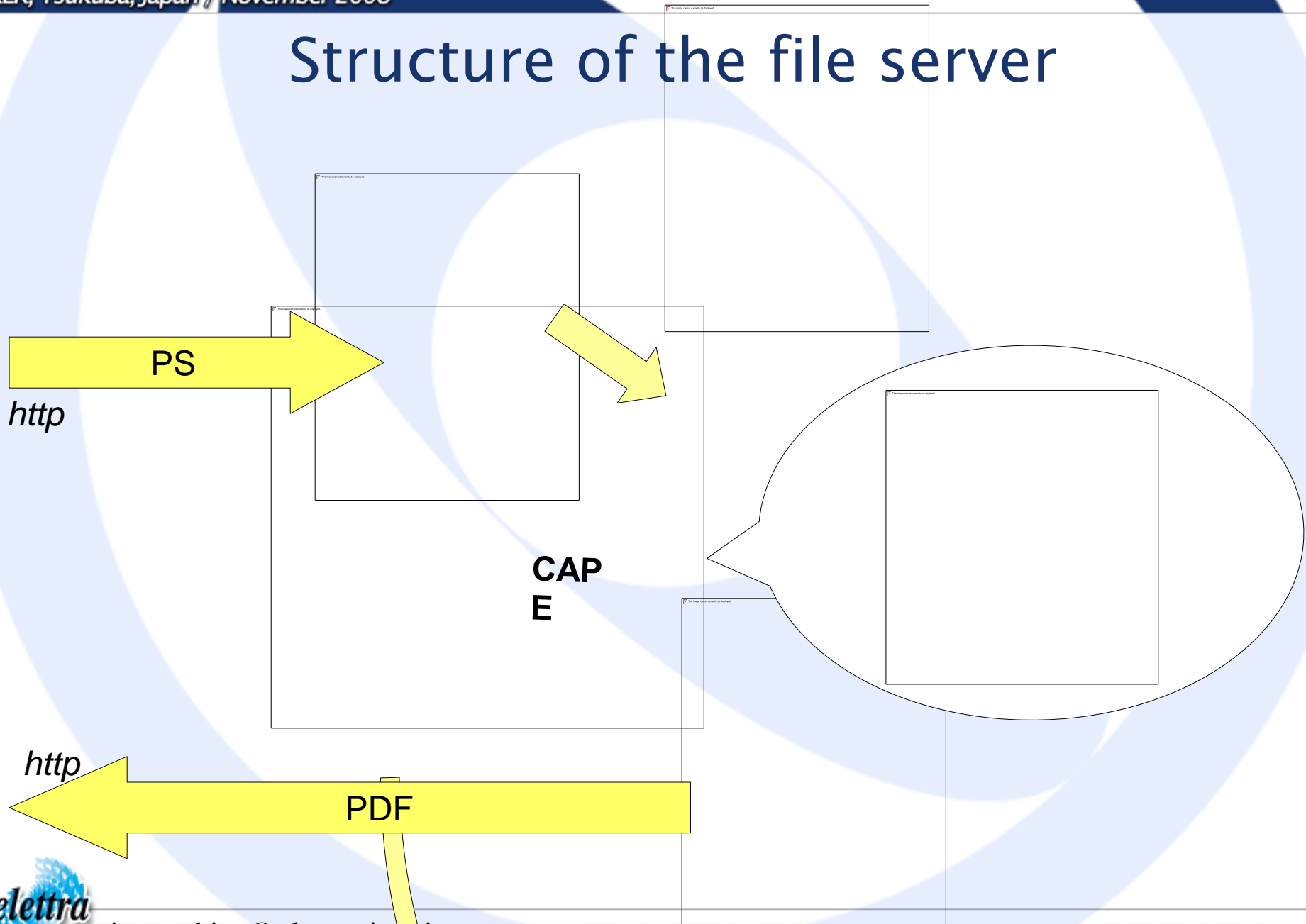SINCROTRONE TRIESTE S.C.P.A.
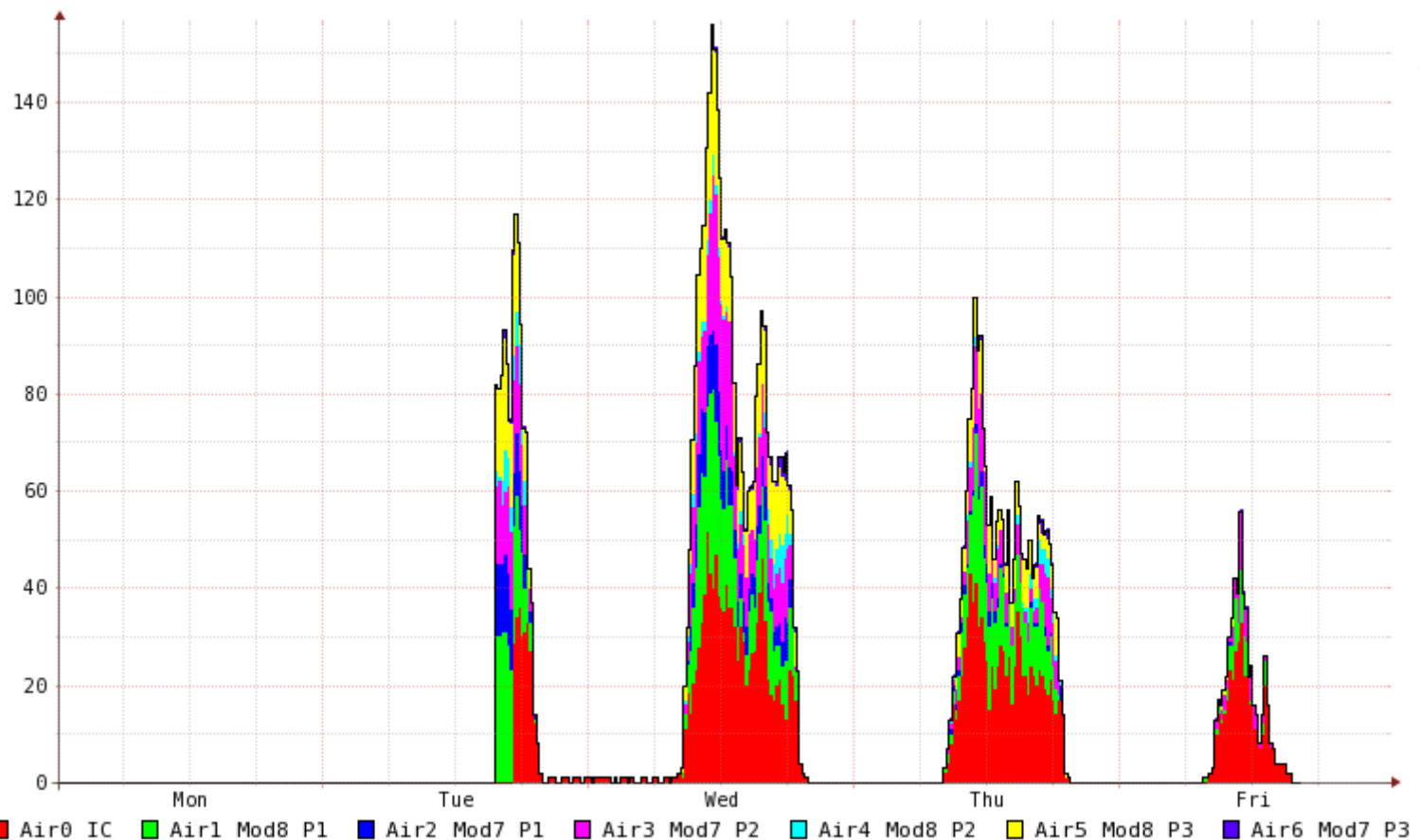
# Real time PDF creation

- The basic idea is to create the PDFs from PSs ASAP – ideally when the authors submit them

- Change of the file upload scripts to "distill" the PS

# Structure of the file server

**PS**

*http*

**CAPE**

**PDF**

*http*

# Features

- The authors immediately has feedback about PS quality

- The Proceedings Office already has possibly good PDFs

- Auto-generated PDFs has different name _AUTODISTILL_

- <u>Optional</u> feature in the upload script

- Old idea made true

["Processing Requirements", I. Andrian, JACoW TM '99@BNL]

ivan.andrian @ elettra.trieste.it

SINCROTRONE TRIESTE S.C.P.A.

# How the connection worked out

- cape.elettra.eu on the GARR network

- So was the Proceedings Office

- SPMS virtually is on GARR network too


- No connection problems experienced!

# Conclusions

- Good results in splitting Paper Café and Internet Café

- Same for splitting privileged/unprivileged n.

- Fast networking costs, but it's a must-have!

- Captive portal worked out very well

  - Possibility to have good statistics

- Everything worked out very well – and it was fun!

# Conclusions

- Automatic distilling subject to license restrictions

- But it's a great added value

- Current state of virtualisation is great

  - The Windows XP machine completely isolated from the Internet

  - "Local" access only

  - Very good performance