

# Screen Snapshot Service

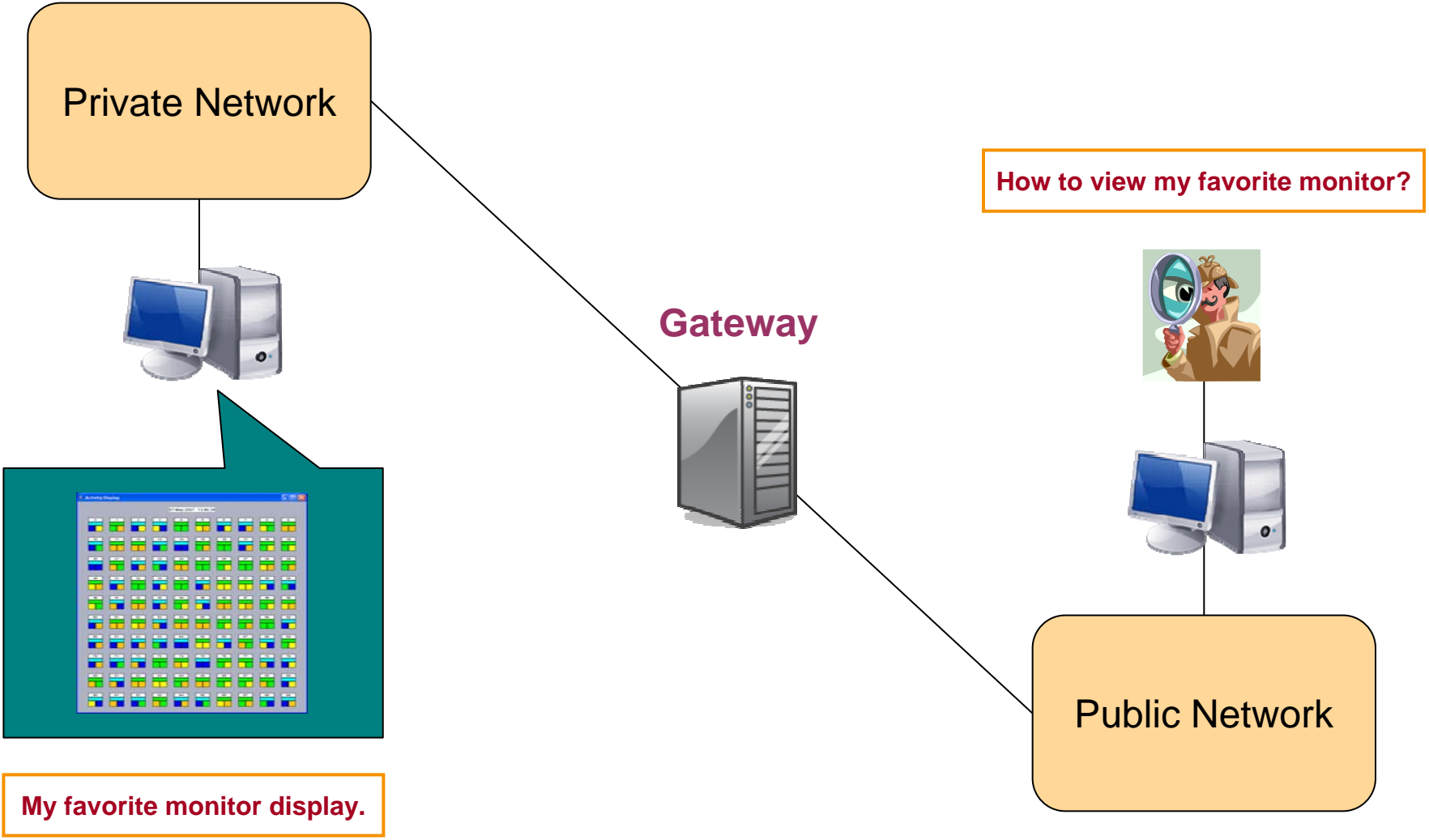
Kurt Biery

LAFS Meeting, 08-May-2007

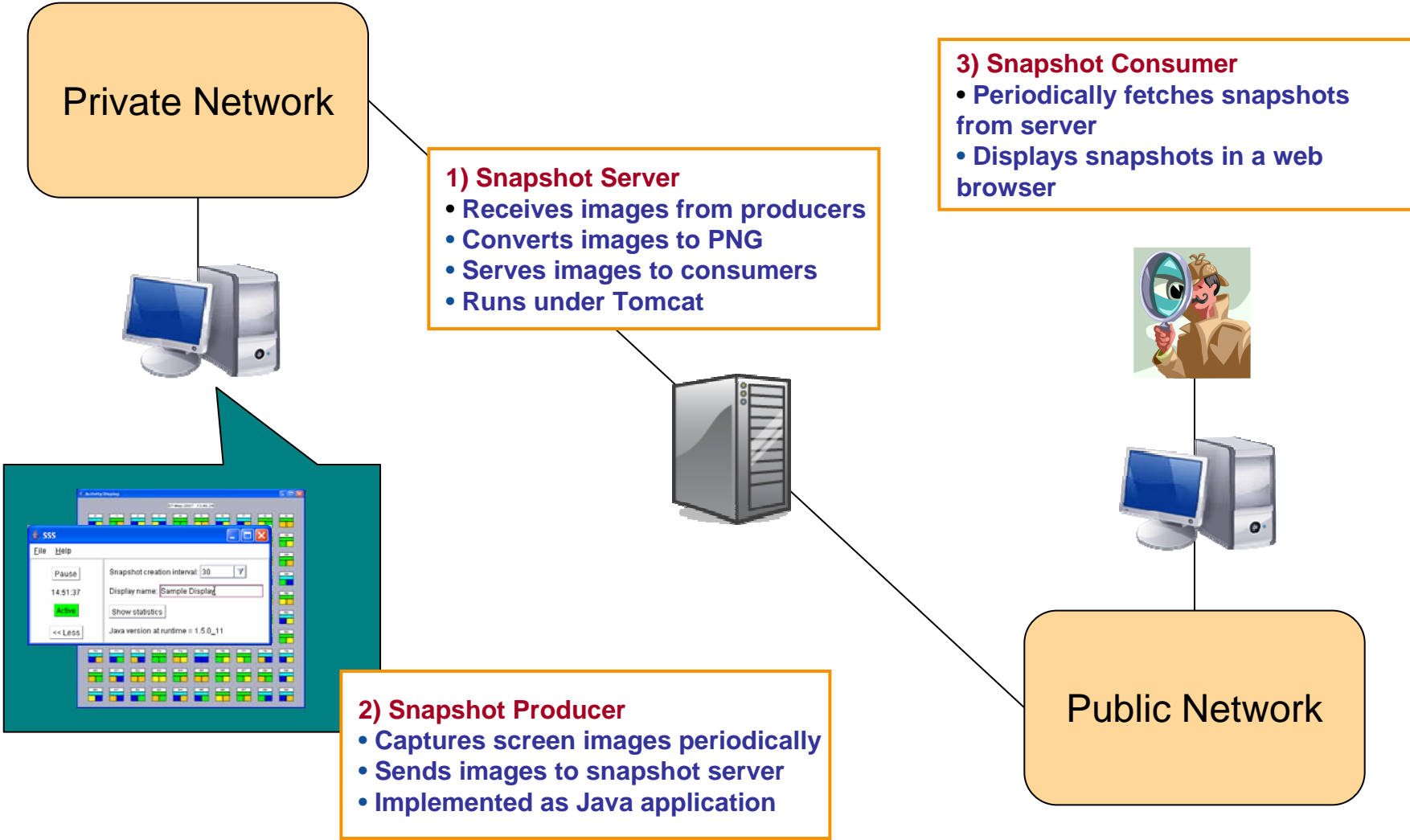
## ■ What is the Screen Snapshot Service?

- ◆ A way to provide periodic, read-only copies of display images (snapshots) for remote viewing.
- ◆ It's similar to products like VNC, pcAnywhere, and VGA2WEB but without the cost or danger of accidental remote control.
- ◆ It can be used to make private-network displays viewable on the public internet (useful for remote monitoring).
- ◆ It does not replace custom, full-featured remote monitoring tools developed by experiment and accelerator software groups.
- ◆ It does not provide desktop sharing or document sharing.
- ◆ It uses commonly available technologies for portability and ease of use.

# Remote Monitoring Scenario



# SSS Components



## ■ Producer

- ◆ A Java application
  - Deployed and run with Java Web Start
  - Runs on Linux or Windows
- ◆ Captures entire desktop currently using Java AWT tools
- ◆ User controls include pause and resume buttons, the choice of production interval, and the specification of the display name

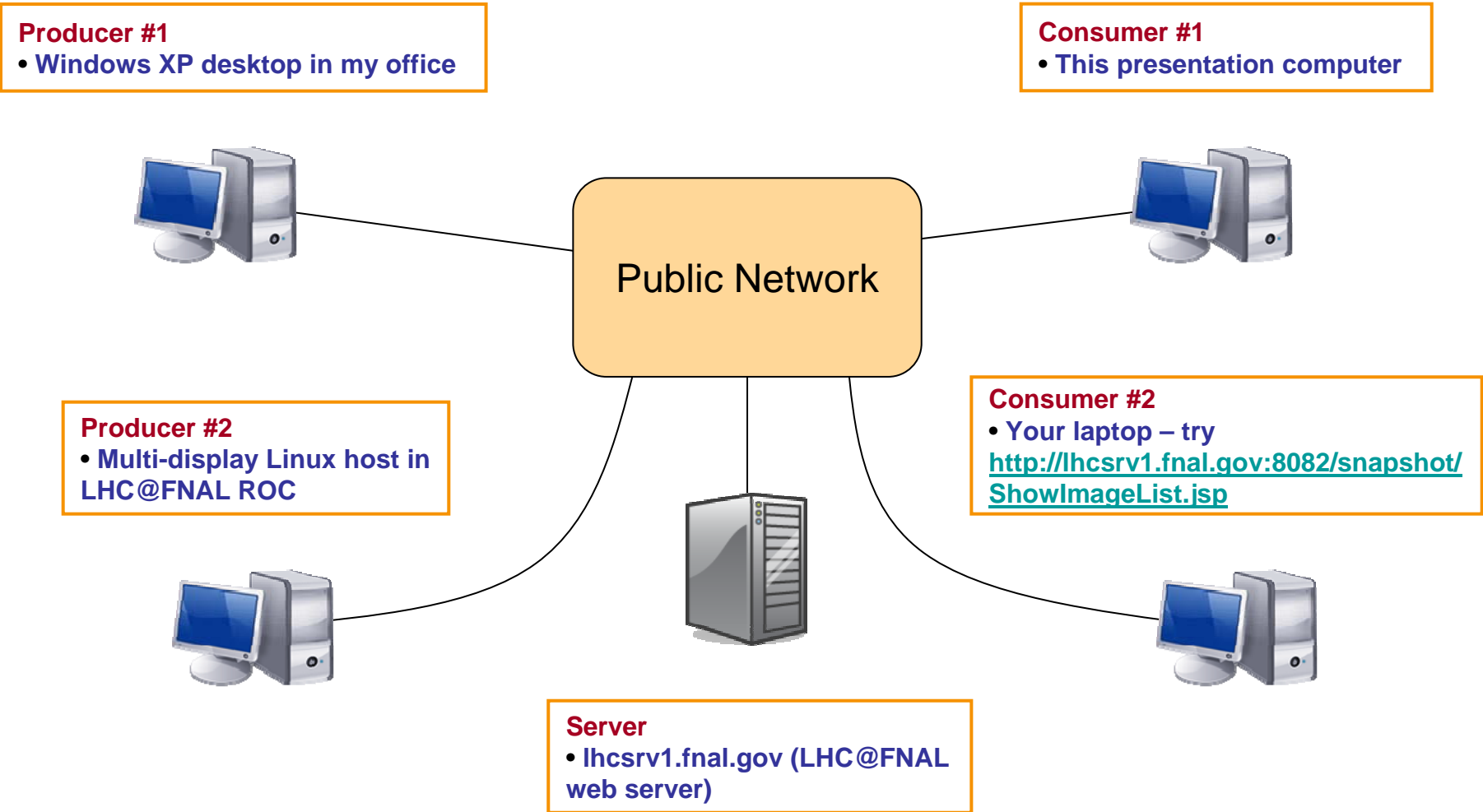
## ■ Server

- ◆ Java Server Pages and other Java code running under Tomcat
- ◆ Uses Java tools to convert RGB pixel values to PNG format

## ■ Consumer

- ◆ HTML and JavaScript displayed in a browser
- ◆ Checks for updates at a rate that is independent of the production interval (user selectable)
- ◆ Allows user to switch between a full resolution image and one that fits in the browser window

# SSS Demonstration



- **Currently being used by a couple of groups...**
  - ◆ CDF – one week per month monitor owl shift in Italy – 10+ displays.
  - ◆ CMS – silicon tracker group at CERN.
  - ◆ LHC@FNAL – no regularly published displays as yet.
  - ◆ LHC – spoke with Pierre and Eugenia several weeks ago.
- **This is not yet a finished product...**
  - ◆ Handling of multiple displays needs to be improved.
  - ◆ It would be very useful to save configurations of producers in a central location.
  - ◆ Application-specific displays (not full desktops) have been requested.
  - ◆ We should limit the hosts that can act as producers for a given server.
  - ◆ Additional documentation could help the installation process.
  - ◆ ...