



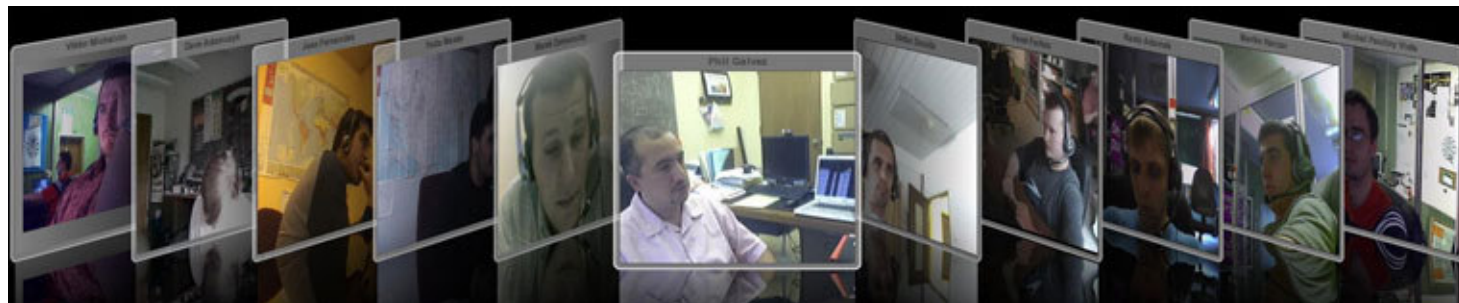
EVO, a Collaborative Tool for e-HEP and a new server at KISTI

Hyun-woo KIM, Kihyeon CHO*

한국과학기술정보연구원(KISTI)

한국물리학회 정기학술발표회

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* Corresponding Author

KISTI e-Science HEP

Virtual Laboratory

HEP based on e-Science
 ⇒ e-HEP (High Energy Physics)

“Whenever, Wherever
 Same Environment as
 Real Lab”

Build a “Virtual HEP Lab”
 by expanding a “real
 HEP Lab”
 via e-HEP!

Data Production

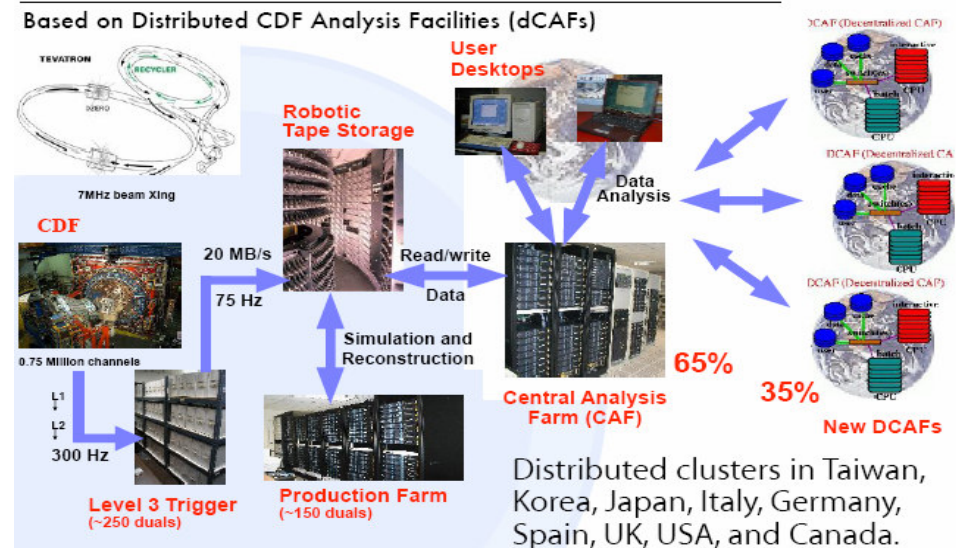
- Remote Control Room

Data Processing

- Data Center

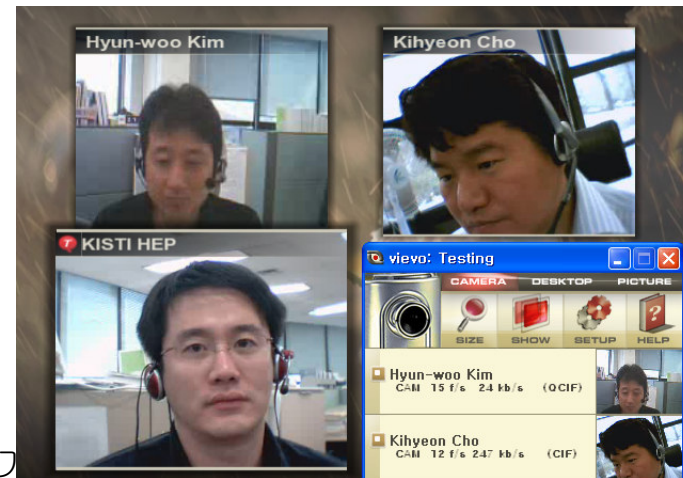
Data Publication

- Enabling Virtual Organization



Collaboration Facility

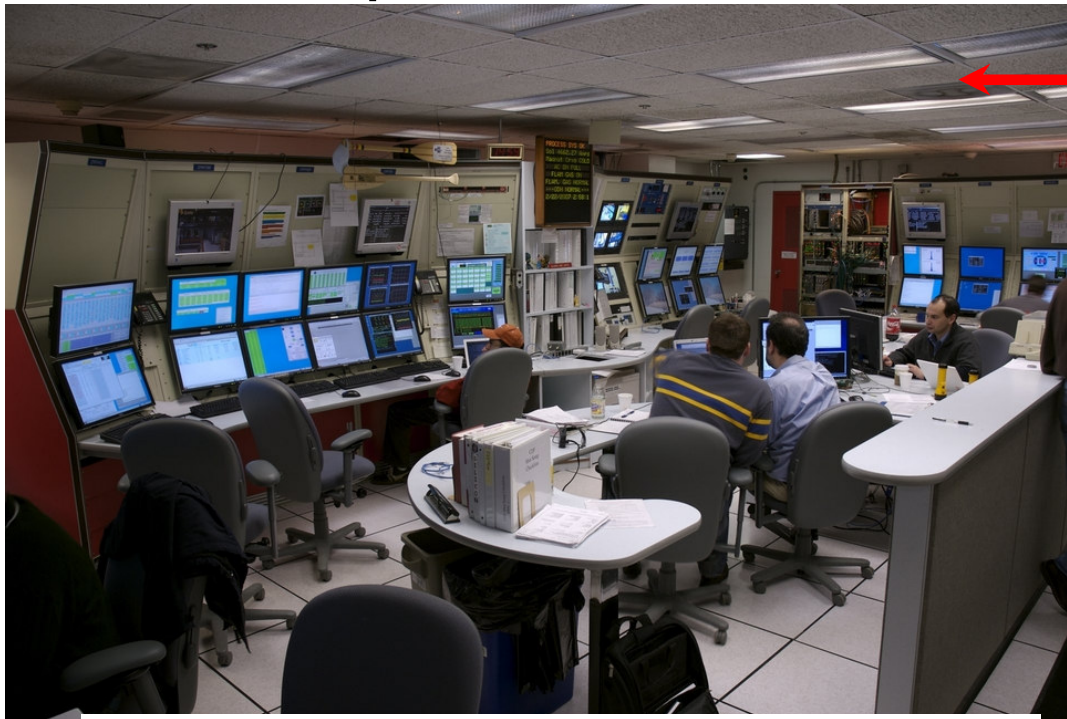
- Mid-level in virtual expansion of a real lab
- Remote Collaboration System
 - EVO: easy
 - Access Grid: large scale



2007 기
우, 조기현 KISTI

CDF@KISTI ROC

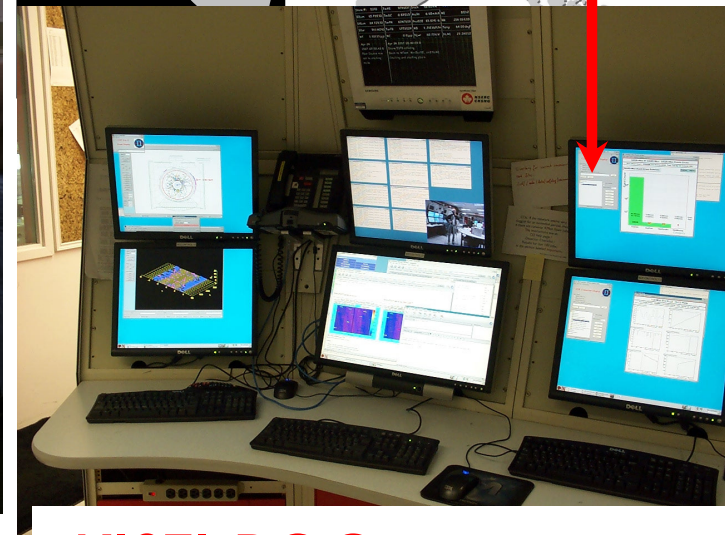
Remote Operation Center
Fermilab CDF exp's Operation Center
will be expanded to KISTI ROC (2007.11)



CDF Operation Center

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KISTI ROC
(Under way)



Introduction to EVO

- Enabling Virtual Organization
- First released in June 2007
- A Java application i.e. Java virtual machine required
- Successor to VRVS
Virtual Room Videoconferencing System
- Client : Koala
- Server : Panda

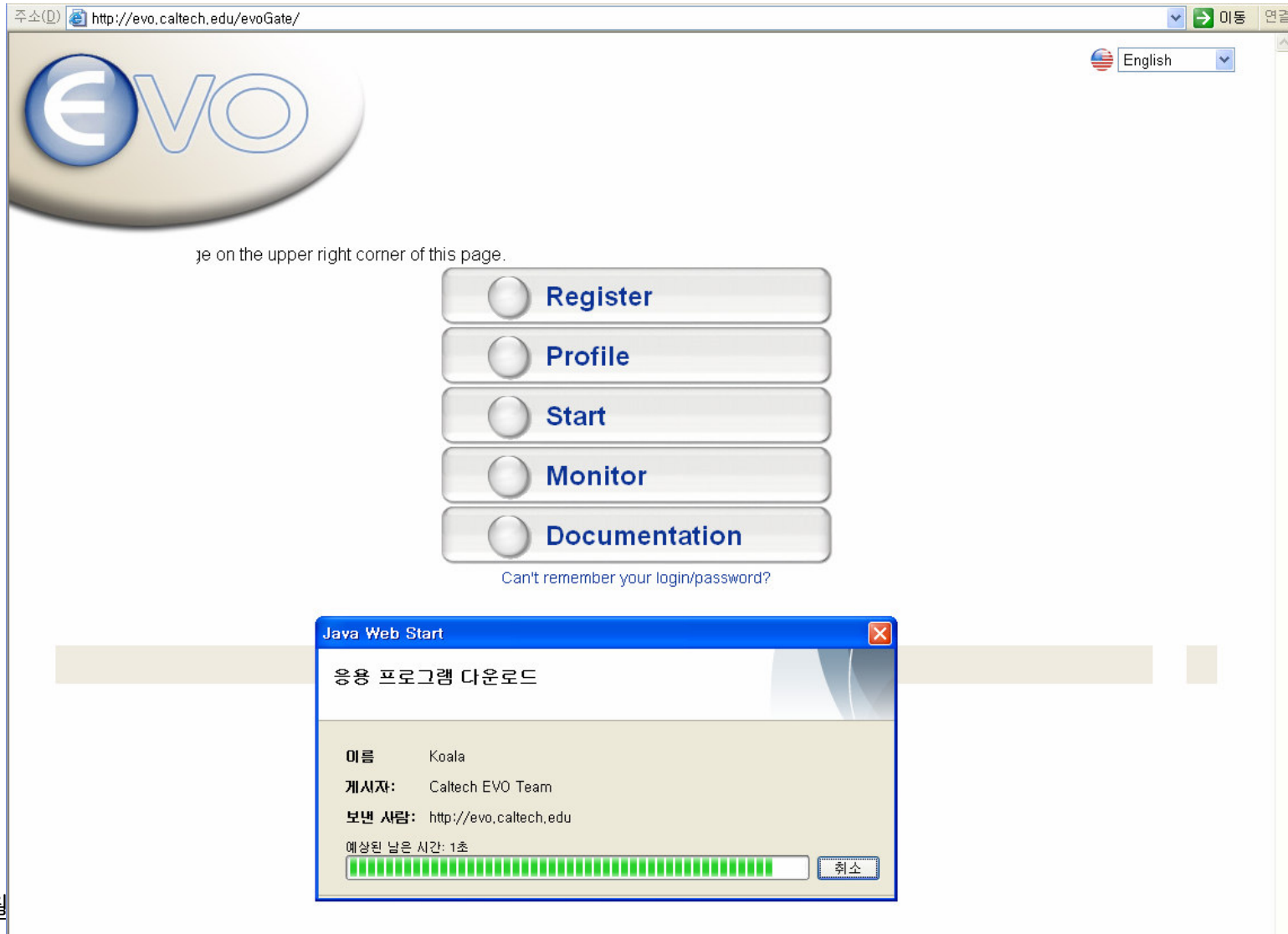
EVO Configuration Server(Panda) : Client(Koala)



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Start a Koala



The screenshot shows a web browser window at the URL `http://evo.caltech.edu/evoGate/`. The page features the EVO logo and a navigation menu with buttons for Register, Profile, Start, Monitor, and Documentation. A Java Web Start dialog box is open in the foreground, displaying the following information:

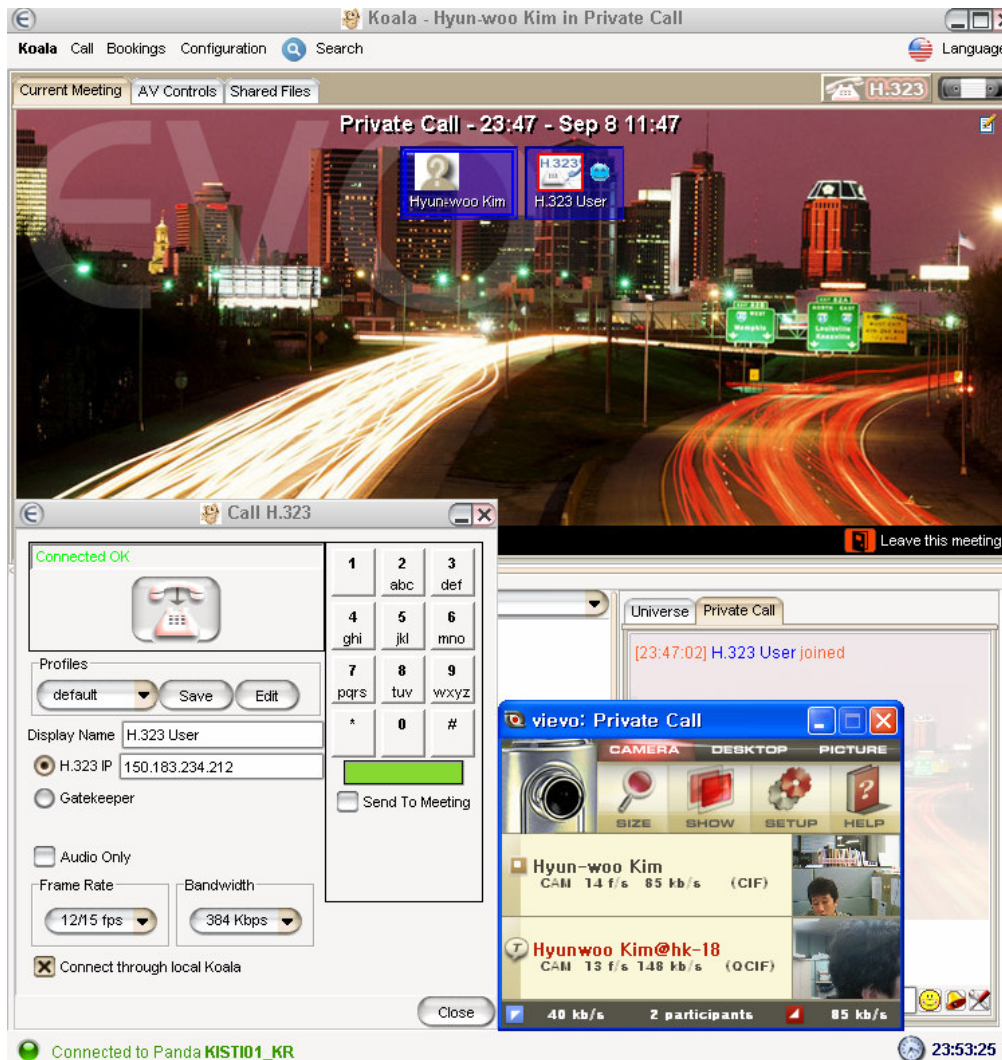
- 제목: Koala
- 게시자: Caltech EVO Team
- 보낸 사람: `http://evo.caltech.edu`
- 예상된 남은 시간: 1초

The dialog box includes a progress bar and a '취소' (Cancel) button.

Use “Koala” as EVO Client

Requirements

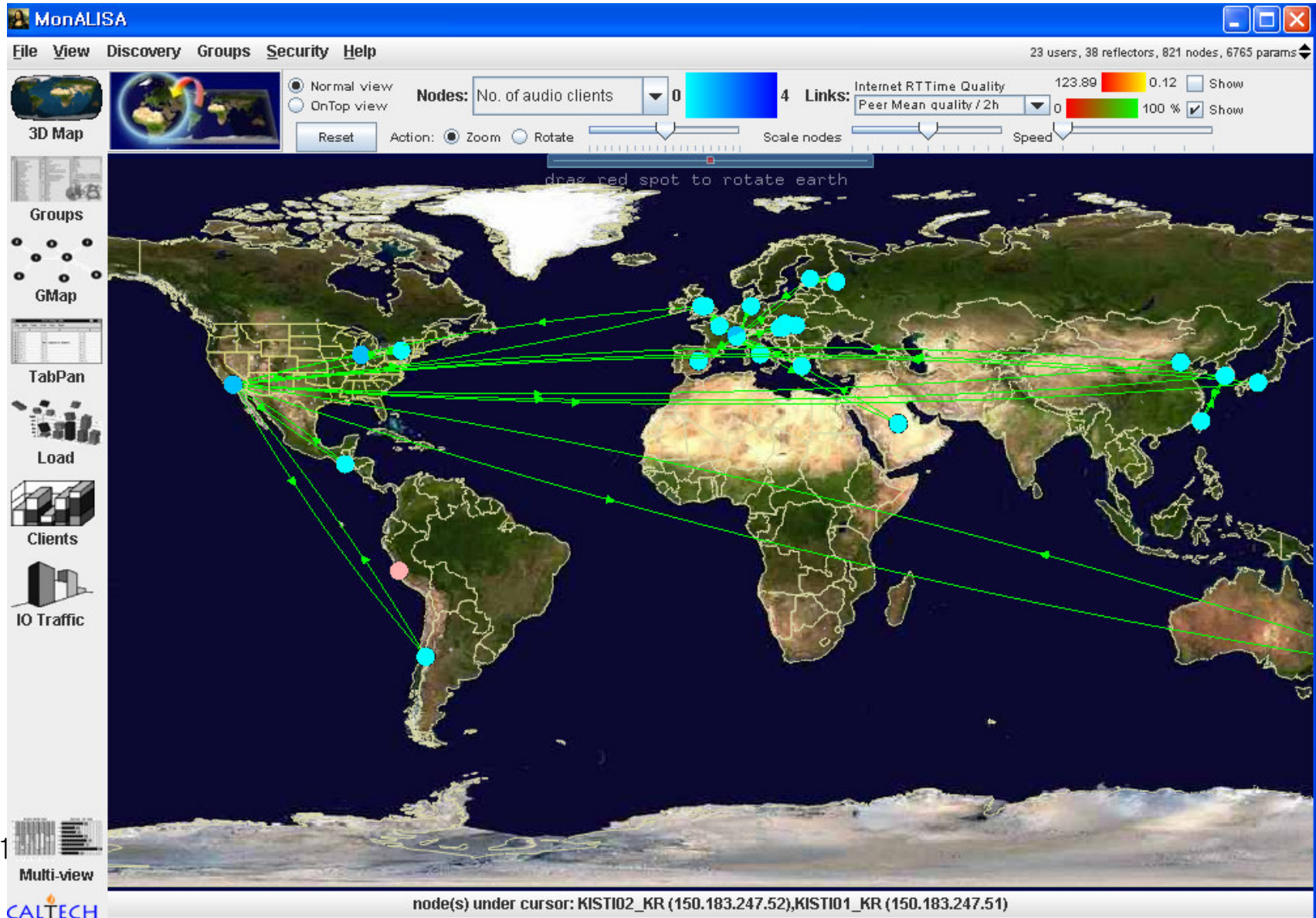
- Intel PC :
(minimum)
Pentium 4, 1.5GHz
512 MB RAM
- Firewall : need to
open certain ports
for certain hosts



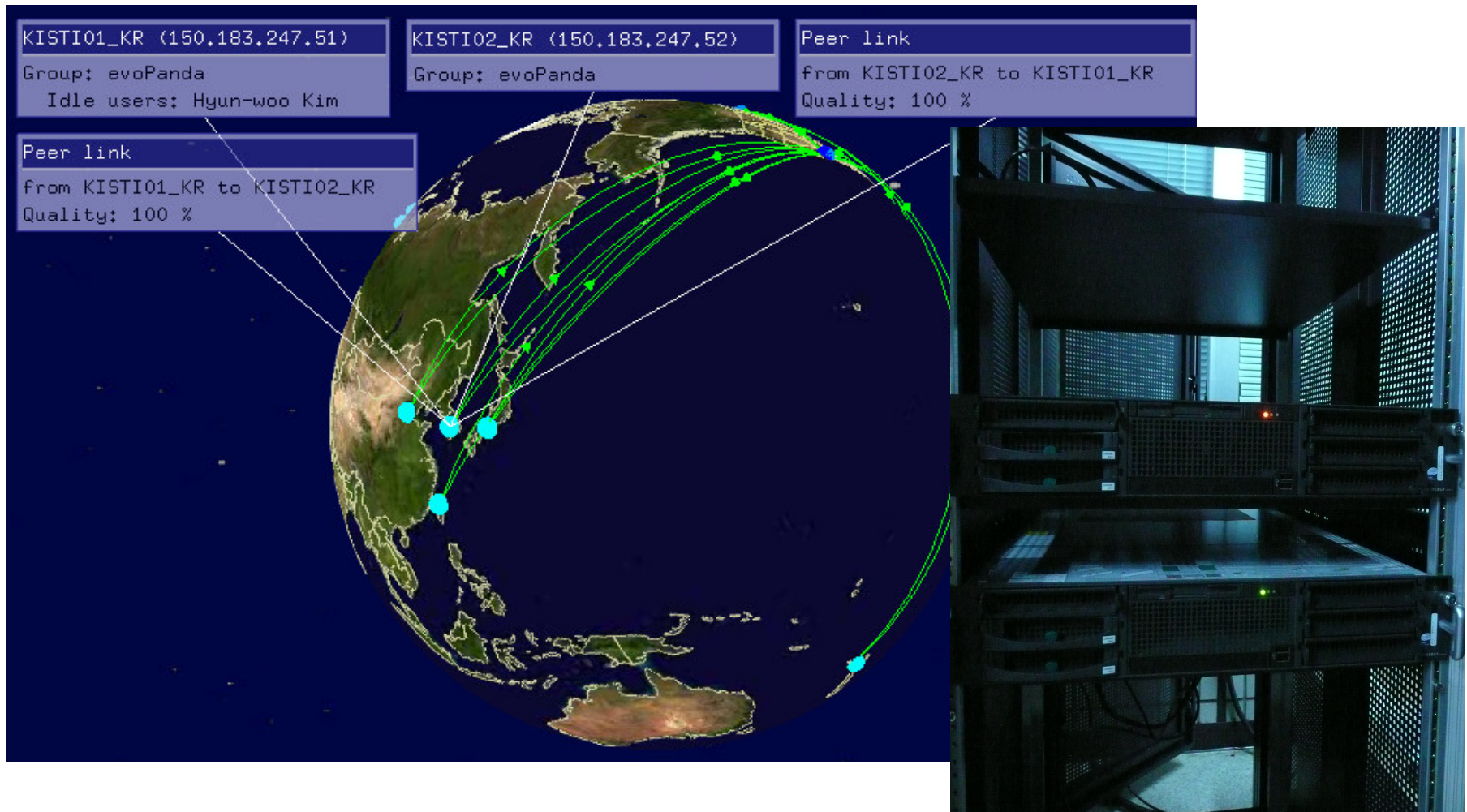
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EVO Server : Panda



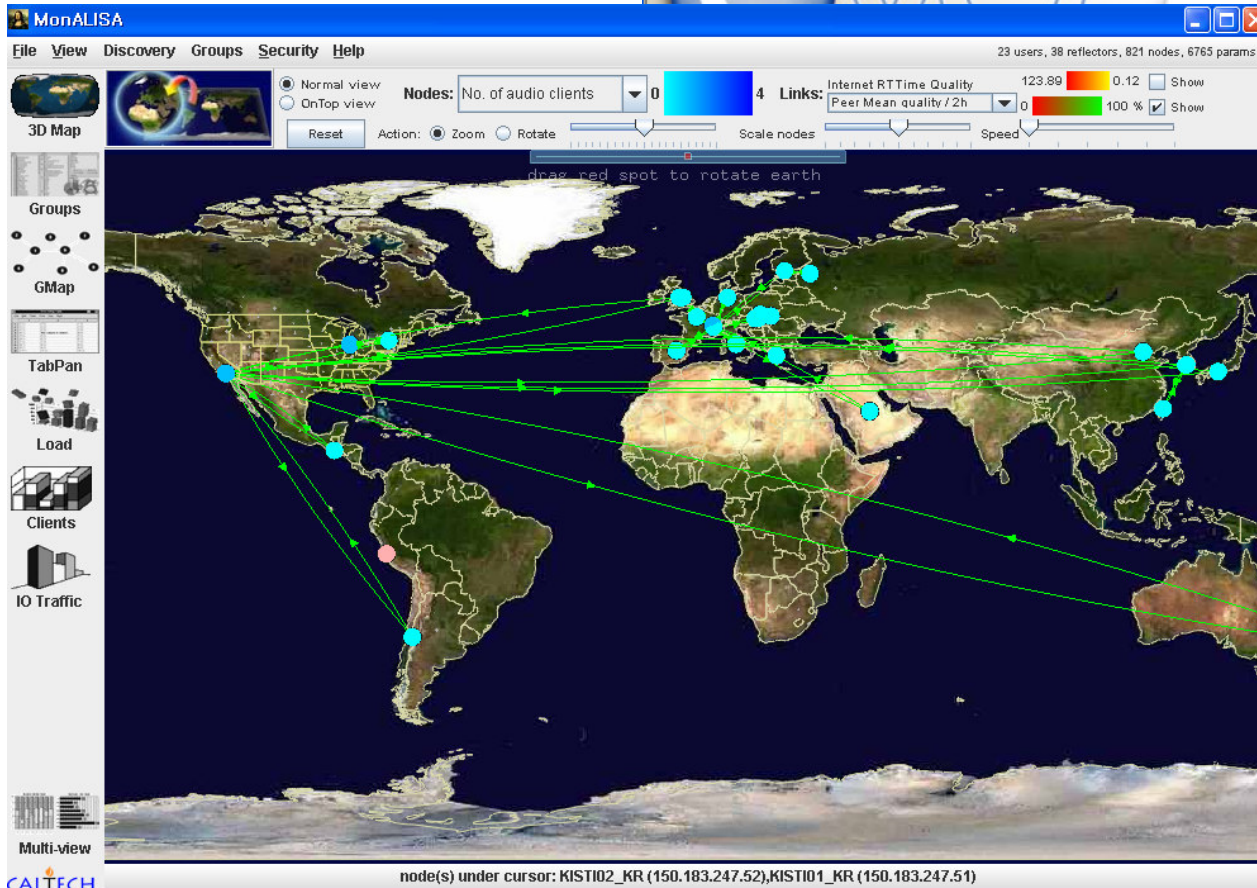
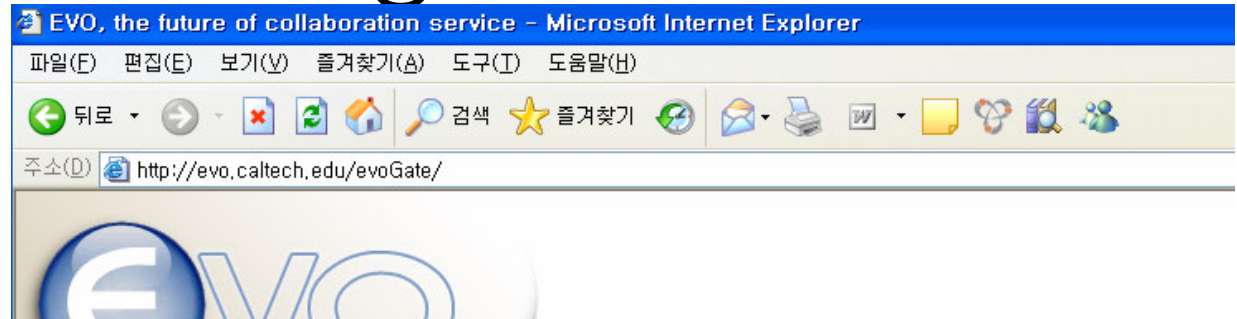
KISTI EVO Server : Panda



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Monitoring EVO



is mandatory to use EVO. On Linux the installed ver

Register

Profile

Start

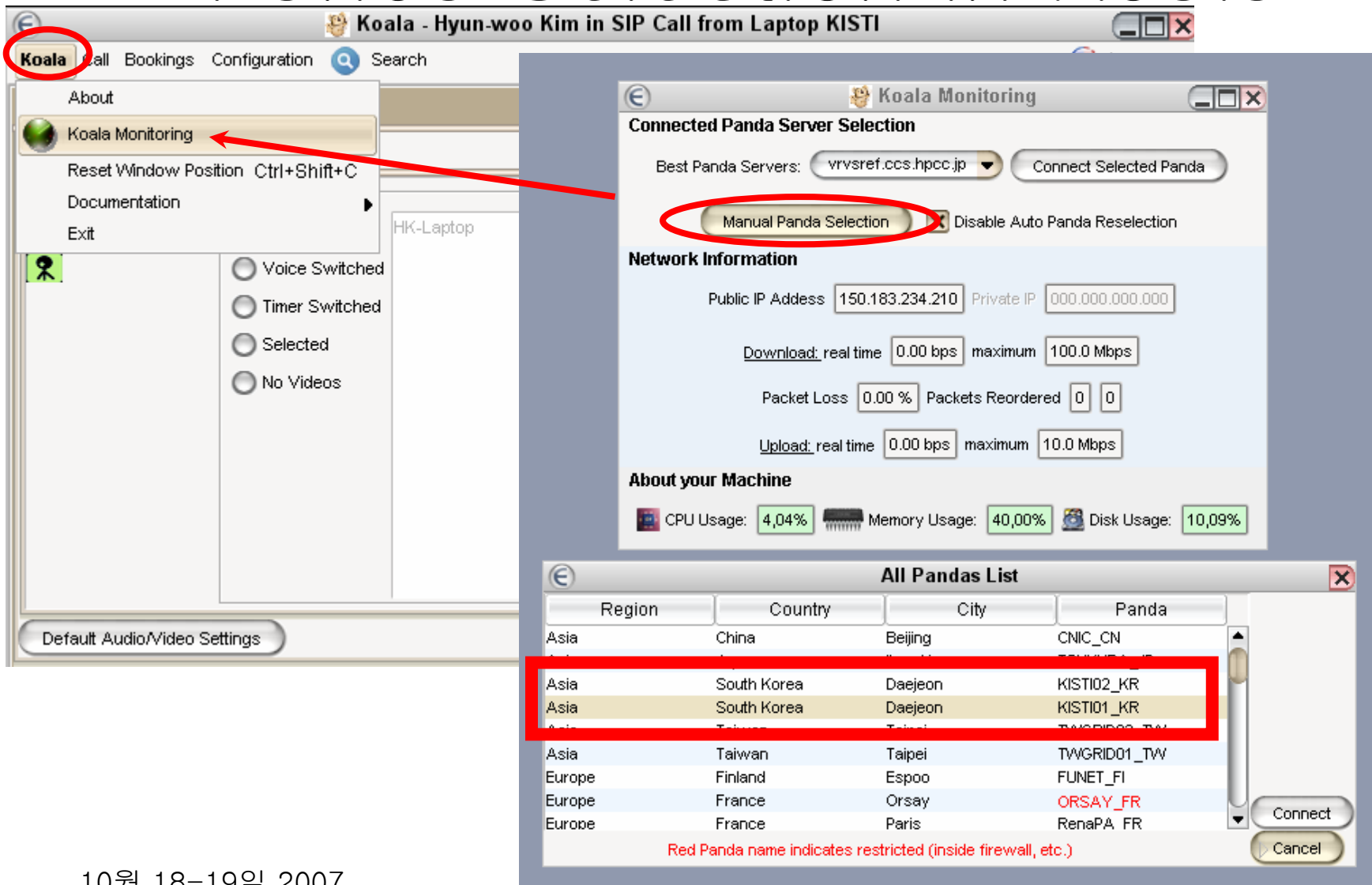
Monitor

Documentation

Can't remember your login/password?

Feedback/Help
F.A.Q.

Panda Selection in Koala



Koala Call Bookings Configuration Search

About
 Koala Monitoring
 Reset Window Position Ctrl+Shift+C
 Documentation
 Exit

Voice Switched
 Timer Switched
 Selected
 No Videos

Default Audio/Video Settings

Koala Monitoring

Connected Panda Server Selection

Best Panda Servers: vrvsref.ccs.hpcc.jp Connect Selected Panda

Manual Panda Selection Disable Auto Panda Reselection

Network Information

Public IP Address: 150.183.234.210 Private IP: 000.000.000.000

Download: real time 0.00 bps maximum 100.0 Mbps

Packet Loss 0.00 % Packets Reordered 0 0

Upload: real time 0.00 bps maximum 10.0 Mbps

About your Machine

CPU Usage: 4,04% Memory Usage: 40,00% Disk Usage: 10,09%

All Pandas List

Region	Country	City	Panda
Asia	China	Beijing	CNIC_CN
Asia	South Korea	Daejeon	KISTI02_KR
Asia	South Korea	Daejeon	KISTI01_KR
Asia	Taiwan	Taipei	TWGRID00_TW
Asia	Taiwan	Taipei	TWGRID01_TW
Europe	Finland	Espoo	FUNET_FI
Europe	France	Orsay	ORSAY_FR
Europe	France	Paris	RenaPA_FR

Red Panda name indicates restricted (inside firewall, etc.)

Connect Cancel

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Summary

- KISTI HEP in e-Science (e-HEP)
 - Data Production : Remote Shift Room
 - Data Processing
 - Data Publication : EVO
- First Korea EVO server (Panda) at KISTI
- In operation since August 2007
- Hopeful to be helpful for Korean LHC and other HEP communities!