Telescience & Ecogrid Update

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Summery

- Update Talks
  - "Report of JGN2 osaka -Forwarding a Greeting Speech of PRAGMA from Thailand using Tiled display solution" Yang Shuo
  - "A Weather Sensor Network in Japan and the Application" Seiichi Kato
  - "Current status of telepresence system with omni-directional cameras" Kaz Fujikawa
  - "NCMIR Biowall" Tomas Molina
  - "GLEON/CREON 3" Fang-Pang Lin
  - "Establishment of e-Science environment for HVEM" Heon Y. Yeom
  - "Acitivities of Ontology Group in Global Earth Observation data Integration and Fusion Research Project", Takuji Kiura et al.
  - Sensor/SensorNet and Metdata/Metbroker, Sheshi Ninomya

Summery

- New activities
  - GLEON&CLEON, Live!E
  - "Computational Oral and Speech Science on E-science Infrastructures,"(Nozaki-san and telescience team work) becomes one of three finalist of Analytic challenge on SC06.

- TDW
  - NCMIR, NCHC, Osaka, CNIC, AIST, etc

Issues

❖ **For remote operation,**
- The biggest hurdle is the network latency !
- QoS

❖ **G-render**
- Most graphics libraries are on Windows !
- How to work with Windows workstations in the Grid ?
- WSRF.net is immature

❖ **Data Management**
- Standard needs to be established for data models

❖ **Common infrastracture**
- Security (authentication/authorization)
- How to's
- Portals
- Streaming

Heon Y. Yeom

Tiled Display Wall as common display
Software Stack: ROCKS, SAGE and others etc.
Milestones:
SC 2006 Nov, 2006.
-- Osaka U-NCBR TDW
APAN Jan, 2007:
-- Pushing Bandwidth via TDW

Sensor & Sensor Network
Bottom-up approach: Data Broker/MetBroker (Seshi)

Data Management
Experience in use of Owl/RDF

Take home work
Data Management of OWL/RDF <Thomas Molina, Takuji Kiura>
TDW environment for SC06 <Susumu Date, Kevin Lin>

Memo

- Yang
  - Command line interface is difficult to use
  - Security by network manager
  - QoS is imortant
  - Standardization of TDW infrastructure
- Kato
  - Live E!
  - Sensor network application
  - Standardization of weather related date in XML
- Kaz
  - Omini-directional Camera
  - 3 camera is needed.
  - LadyBug
  - Computational resource has a GPU
  - Access control is taken care by Date san
  - Distributed Storage of sensor network
    - Local View on SRB
- Tomas
  - Vizroll rocks
  - Covise
    - Germany not opensource
    - Gives annotation
    - Sage Visualcasting
    - 2D datasets usigng Jaxtaview
  - Integration on SC06

- Fang Pang
  - Cost effective tiled display wall and its application.
  - 3D Graphics & Modeling
  - $ 700 per display node
  - Ivlsee could use instead of covice
  - GLEON CREON workshop
  - Data Format
  - Grobal science
  - EML (Ecological Mark up Language)
  - Tonny Fountain
- Hoen
  - Network Latency, QoS
  - G-Render on windows
  - WSRF.net is immature
  - Data format
    - Difficult
  - Security
- Common architecture
  - OS,
  - Fact sheet
  - Semantics DNS