Tiled Display Activity Report in JGN2 Osaka Research Center



JGN2 research center, Osaka YANG SHUO







NICT (National Institute of Information and Communications Technology)

network-related technologies

core research

expanded by



JGN 2 (Japan Gigabit Network) is an open testbed network environment for research and development established by Japanese Government.

Collaboration

enterprise, university

Aim

Promoting a broad spectrum of research and development projects

Centers

seven own research centers for research and development

Outline of JGN2 Network





·Softopia Japan (Ogaki)

·Mie Prefectural College of Nursing (Tsu)

Okinawa Core Network Node (Naha)

Kochi University of Technology

(Kami, Kochi Prefecture)

(Chuo)

demonstration at PRAGMA 11 (Osaka)

NICT &

by Applying the research and development technology in Osaka RC, and cooperating with (NICT,Osaka U.,NECTEC,NEC,Fujitsu,KDDI,etc) ,we delivered the speech of the president of Miyahara Osaka University from Osaka University Thai center to Osaka University graduate school information department of scientific research conference room in the high-definition television quality.

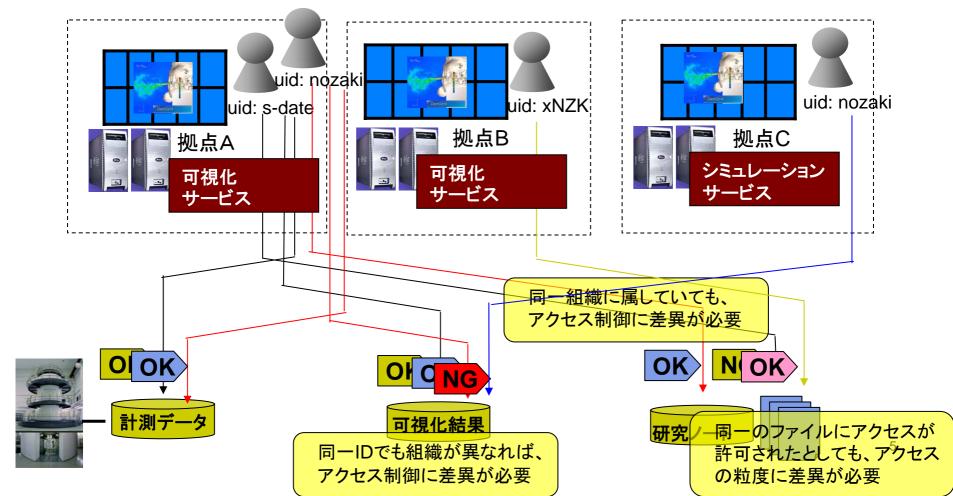




Necessity of a security source management



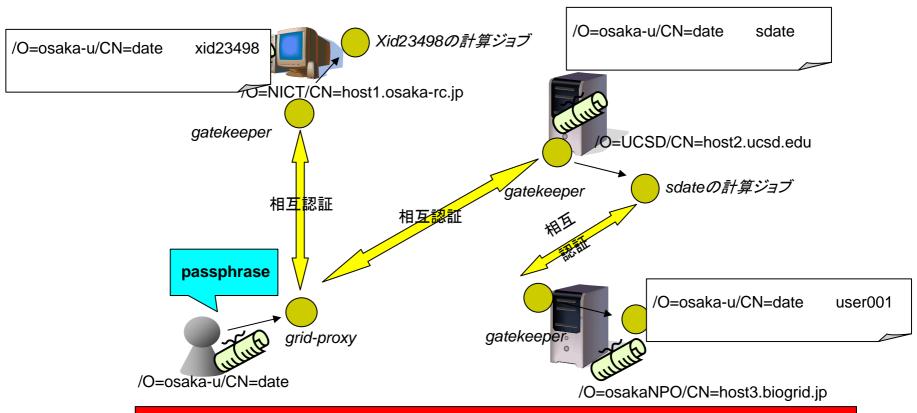
- for offering the distributed calculation resource and the data resource to the user in two or more location, The access control and security technology is important. TDW operation is difficult by command.
- The prior technology(acl) is insufficient because of the scale and diversity.



GSI (Grid Security Infrastructure)

- Public key encryption system foundation that has single sign-on function (Public Key Infrastructure)
 - The user and the computer have X509 electronic certificate that show the identity.
 - Authentication each other using by X509 electronic certificate
 - delegation using mechanism of electronic signature



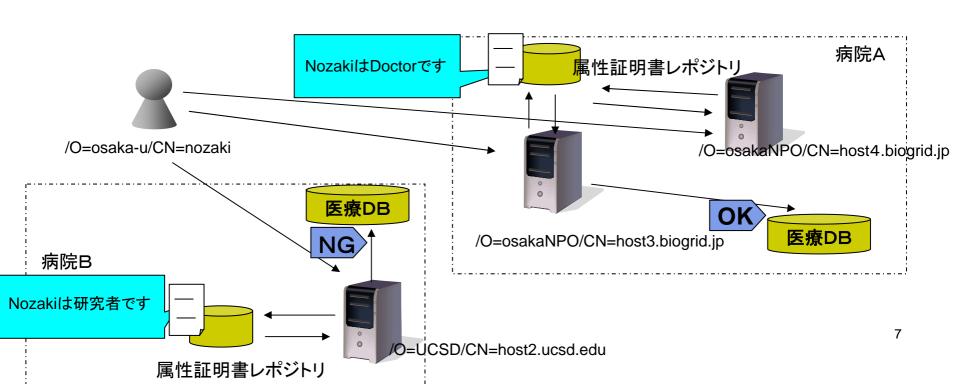




PERMIS (Privilege and Role Management Infrastructure Standards Validation)



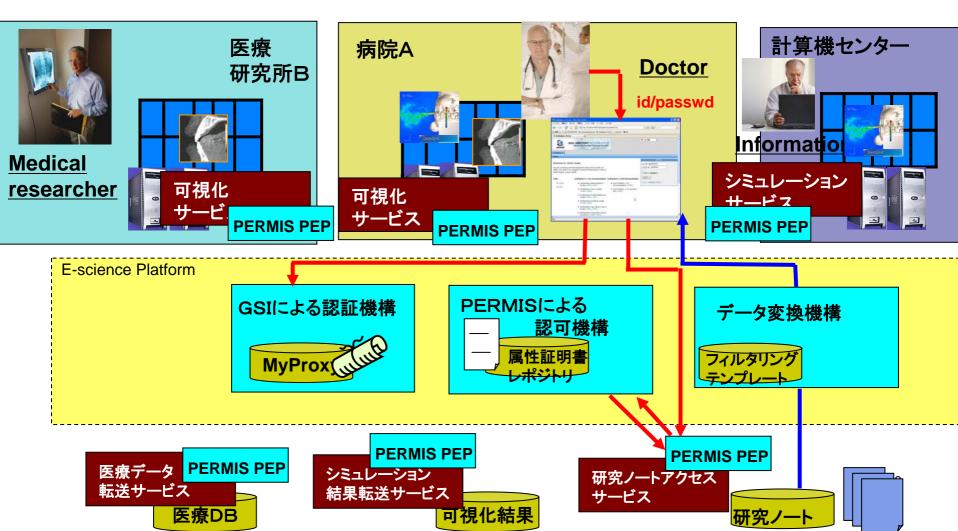
- Authority management infrastructure based on PMI(Privilege Management Infrastructure)
 - Authorization that uses X509 attribute certificate
- RBAC (Role-based Access Control) Authorization based on Role allocated by user

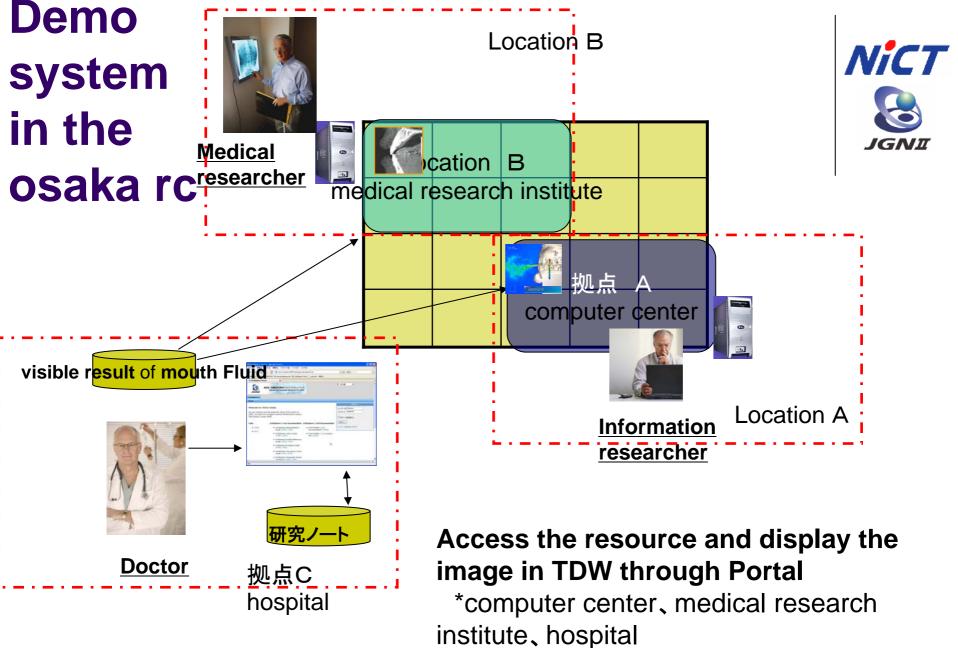


Access control module that is researching and developing in Osaka RC



access control mechanism for large-scale base date and calculation resource, JGNII
by cooperating with GSI and PERM seamlessly









 verify The practicality and safety from the viewpoint of the E-science application, and constructs a general visible, decentralized, cooperation middleware module.

Result report and result use promotion