

GN2 JRA5 - Ubiquity (Mobility) and Roaming Access to Services

Current state (Jan 04)

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JRA5 sub-activities

- **Roaming** (define, design, prototype and build a NREN roaming infrastructure)
- **Authentication and Authorization Infrastructure** (define, design, prototype and build a NREN AAI)
- **Single Sign-On** (based on roaming and AAI results build an integrated infrastructure for cases that allow SSO)
- **Integration of New Technologies** (broaden the scope, integration of MIPv6 and other new appropriate solutions in the mobility field)

Roaming

- Terminology and requirements specification
- identified methods: 802.1X, VPNs with CASG, web-based redirect
- Radius infrastructure for authentication in the home network
- interoperability issues
- field tests

AAI: Where we are today?

- different solutions used, some NRENs started to build AAls, some not
- lots of systems and architectures: PAPI, A-Select, Shibboleth, Athens, many more ... Grid!!
- Combinations exist too (SWITCHaai)
- classification and specification of generic blocks
- user administration is seen by the NRENs as a local problem, which recommendations (LDAP?, ...)
- many projects (FEIDE, Unitcf, ...)
- **TERENA TF AACE is working on these fields**

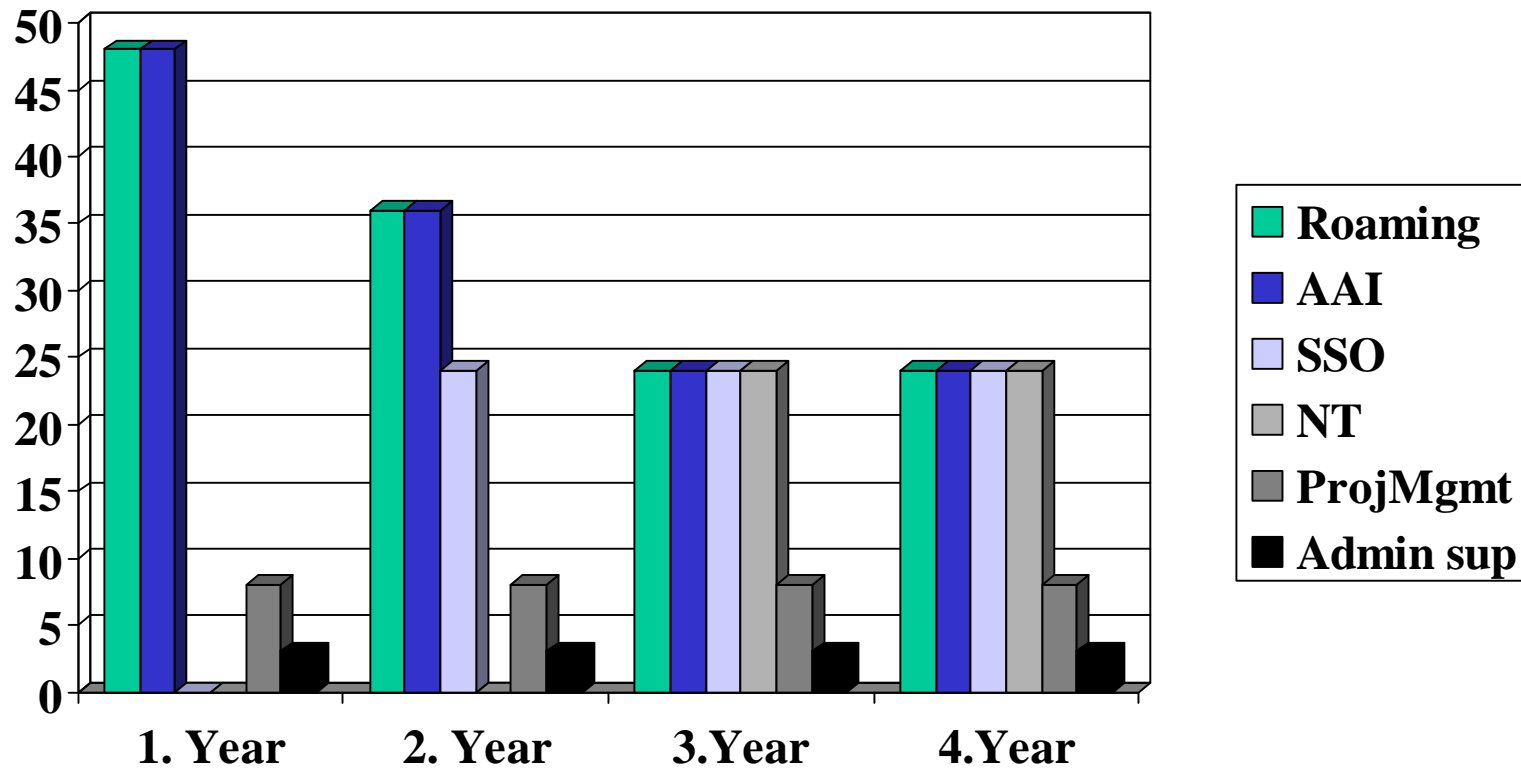
Single Sign-On

- Authenticate once, access multiple (network or application) services
- Based on AAI and roaming
- will start in year 2 with requirements and survey of available solutions
- short term SSO: network access (same or different types) and access to data/applications (single and multi-domain) handled separately
- long term SSO: access network **and** apps (generic cases might be quite challenging)
- basic solutions on Web/Radius?

Integration of „new“ Technologies

- Will start year 3, based on results to date
- network technology (3rd Generation tech, MIPv6, seamless roaming, ...)
- new authentication/authorization schemes or other middleware systems (802.11i, Grid, Diameter, trust management tools, p2p networks, ...)
- new services (location based, context-aware, presence based, authenticated instant messages, ...)
- refinement month 18

Subactivity distribution (draft)



JRA5 preparation steps

- Meeting 16th Dec in Berlin: basic agreements on the JRA5 framework
- gn2-jra5 email list (moderated), discussion in virtual teams, 48 subscriptions, web presence
 - JRA5 framework exists
 - roaming and SSO spec's close to ready including effort estimation
 - AAI task structure in draft (more text needed)
 - NT close to ready (effort estimation and refinement later)

JRA5 “rootes”

- TERENA TF Mobility (in operation until June 04)
- TERENA TF AACE (in operation until June 04)
- JRA5 preparation activities might have a limited influence on the rest of the TFs work (closer co-operation, common events, reports, awareness)
- pilots, projects and experiences in the partners organisations (both roaming and AAI)
- other international projects
- standards (IETF, IEEE, GGF, ETSI, ...)

JRA5 co-operation

- Discussion started with JRA1 (performance monitoring): JRA5 will develop an AAI for JRA1 (maybe for other activities as well if need shows up)
- close co-operation with the NRENs and TERENA Task Forces (successors of Mobility, AACE)
- there will be a co-operation with the Internet2 team on roaming and AAI (SALSA project, PIPES, AAI for the monitoring infrastructure)
- co-operation with other JRAs from GN2, Sas
- watching Grid environment closely, workshop

JRA5 partners

- Current commitments to work in JRA5:
ARNES, CARNet, CESNET, DFN, FCCN,
GRnet, Hungarnet, ISTF, NORDUnet,
RedIRIS, RESTENA, SURFnet, SWITCH,
Ukerna, ULAKBIM
- solutions planned to span all interested
NRENs (results will be available in public)