

## **Task Force Mobility**

### **Terms of Reference**

1. A Task Force is established under the auspices of the TERENA Technical Programme to develop roaming services for mobile devices using network access technologies already deployed (or planned) in national research and education networks (NRENs). Work will be undertaken to:

- (1) Extend roaming service access beyond NRENs to other networks and
- (2) Develop more secure, more flexible and more accountable roaming services by investigating and testing system integration with other Authentication, Authorisation and Accounting solutions.

The task force will be known as TF-Mobility.

The task force will collaborate closely with Joint Research Activity "Ubiquity (Mobility) and Roaming Access to Services"(JRA5) in the GN2 project and liaise with the TERENA Task Force on middleware co-ordination.

2. The aims of this Task Force will be:

- a. to provide a forum for exchanging experiences and knowledge;
- b. to promote the benefits of the technology and assist in the rollout of the roaming infrastructure;
- c. to provide a technical-knowledge repository containing information about standards and products for roaming services;
- d. to test, update and extend the current roaming architectures among NRENs and beyond;
- e. to consider the impact of future developments in roaming;
- f. to provide a forum for JRA5 to receive feedback on its work from a wider community.

3. The Task Force will be open to any individual who can offer appropriate expertise, manpower, equipment or services. Participation will be on a voluntary basis.

4. The Co-Chairs of the Task Force will be James Sankar (UKERNA) and Klaas Wierenga (SURFNET) who will be responsible for preparing the agenda of each meeting, and for co-ordinating the work of the Task Force. They will also be responsible for ensuring that the agreed deliverables are produced.

5. The secretary of the Task Force will be appointed by TERENA. He/she will be responsible for taking the minutes at each meeting, and for making logistical arrangements as necessary.

6. The Task Force will operate with a 2-year mandate, starting 1 September 2004. A report on the progress of the Task Force and the results achieved will be made at the TERENA Networking Conference 2005. The mandate of the Task Force may be renewed by the TERENA Technical Committee (TTC). If the mandate is not renewed, the Task Force will be dissolved. The Task Force may also be dissolved if the TTC considers that it is making insufficient progress or that its activities are no longer useful or relevant, or if the Task Force co-chairs resign and no replacement can be found.

7. The Task Force will meet approximately four times per year (although this may be via telephone or videoconference). Physical meetings will be held at various locations, taking care to reduce overall costs to participants.

8. Reports and other results of the Task Force will be placed in the public domain, with the exception of information that is subject to a commercial Non-Disclosure Agreement.

9. The Task Force will have a mailing list (mobility@terena.nl) for communication between the participants. The mailing list archive will be publicly available.

### List of Work Items and Deliverables

Code	Description
D1	In order to provide a knowledge base of information, a summary report on discussions about network access, roaming and security issues will be produced and updated every six months. The summary will contain lists of issues raised, resolved and outstanding, and explanations of the reasons for the current status. The summary will be made available online.
D2	Current roaming infrastructures will be scaled and where necessary updated to include countries that wish to participate. Part of the work will be dedicated to reviewing the current and emerging national roaming solutions being implemented in the NRENs across Europe. Tests will be carried out and any necessary amendments of the existing inter-NREN roaming test bed architecture will be made.
D3	A service support area for the current roaming services will be created that contains: D3.1. Current Roaming policies. D3.2. Current best practice D3.3 An online map of participating NRENs and their institutions with details of each institution's campuses that support roaming, with details of their network access methods, SSID, and local AUP. (Ideally each NREN should be responsible for their own area).
D4	An online form will be created for roaming users to provide feedback on their experiences of roaming at institutions in other NRENs so that this information can be automatically passed on to the relevant NRENs and then to the institution.
D5	A document will be produced to detail how to get access to technical support (at each NREN for institutions, and at TERENA / SURFnet for NRENs).
D6	Towards the end of the lifetime of the task force, a report will be produced that outlines a way forward to develop roaming over the next 1-2 years. This will include the updated requirements coming from JRA5, lessons learnt from the current development work, a SWOT analysis and a risk analysis based on current and future needs and advances in new technologies, protocols and standards.
D7	The impact of new technologies (MobileIP, IPv6, QoS, location based services) will be studied to determinate how roaming services could be

	affected. A survey of future roaming needs of users and participating NRENs will also be performed.
D8	An online web area will be set up that contains information on security issues that may affect roaming as well as a repository of best practices in roaming security. A list of security requirements for roaming will be drawn up, VLAN vulnerability will be investigated, and best practices in security will be gathered and made available on the TF-Mobility web page.
D9	The results of task force will be made available to the research community through the mailing list and some PR materials. One the effect of this will be to promote the roaming services across Europe.

New deliverables may be added as the Task force sees fit.