

**Minutes of TERENA Technical Committee Meeting  
Friday 6 September 2002  
TERENA office, Amsterdam**

Valentino Cavalli  
3 October 2002  
Approved 12 December 2002

**Present**

Claudio Allocchio, VP Technical Programme (TTC Chairman)  
Roberto Barbera  
David Chadwick  
Brian Gilmore  
Dimitrios Kalogeras  
Olav Kvittem  
Ton Verschuren  
Karel Vietsch

**TERENA Staff**

Valentino Cavalli  
Yuri Demchenko  
Licia Florio  
Kevin Meynell

**Apologies**

John Dyer (secretary)  
Christof Graf

**Minutes of the previous TTC meeting**

The minutes of the previous meeting were approved with no changes.

**Open Actions from the TTC meeting of 8 July 2002**

020121-02	Secretariat to make a clear archive of old TERENA projects	ONGOING
020603-02	TTC - to stimulate NRENs in providing answers to the Deep2 questionnaire distributed in summer 2002	CHANGED
020708-01	Roberto to send details about the working group on OGSA compatible Resource Usage Service.	DONE
020708-02	TTC members to Keep each other informed about the activities that anybody is taking to bridge to campuses.	ONGOING
020708-03	Dimitrios to send information about Victor Reijs idea to coordinate the set up of performance emergency response teams. The PERT concept has been picked-up in TF-NGN.	DONE

## Updates on the TERENA Technical Programme

The SERENATE Project was progressing well with the preparation of the first workshop to be held on 17-18 September in La Hulpe, Belgium. Claudio remarked the importance for TTC members to attend the event. Valentino informed the audience that he had started collaboration with Roberto Sabatino from DANTE on scheduling interviews to equipment manufacturers. A draft questionnaire was going to be discussed with selected members of the ASTON group on September 9, wider feedback would be requested at the TF-NGN meeting on October 17-18.

In view of the preparation of the ASTON project proposal TERENA would host a meeting organised by Valentino Cavalli and Victor Reijs on September 9 at the TERENA office. The goal of the meeting was to obtain a clear understanding of what activities are really needed as part of the 'Bandwidth on Demand' work package.

TERENA participates in the SEEREN project to establish the South Eastern European (SEE) infrastructure interconnecting the National Research and Education Networks of Albania, Bosnia-Herzegovina, Bulgaria, Former Yugoslav Republic of Macedonia (FYROM), Federal Republic of Yugoslavia - Serbia and Montenegro (FRY), Greece, Hungary and Romania at 2-34 Mbps. The project is expected to start on October 1. Valentino would attend a pre-kick-off meeting at the Commission premises in Brussels on September 16.

TERENA has a marginal role in contributing to 6LINK, the Commission project supporting the Ipv6 cluster. Valentino reported that at the latest conference call the consortium discussed the dates for the next Ipv6-cluster meeting to be possibly held in Brussels adjacent to the launch of the European Research Area and the 6<sup>th</sup> Framework Programme in November.

Yuri distributed the notes from the 2<sup>nd</sup> BoF on Grid Aware Networks held in Limerick on June 5. Yuri drew the attention of the TTC on remarks from the participants and recalled the open action to improve communication between the Grid and Research Networking communities. Yuri asked a feedback about a dissemination mailing list that TERENA was supposed to set up. This topic was further discussed during the agenda item on Grids.

The latest TF-AACE meeting was rich on information about what NRENs are doing. A questionnaire would be launched later in September to collect more information, probably lead by RedIRIS by using the DAASI questionnaire as a model. The TTC discussed the clustering of TF-AACE and TF-LASD, together with a TF-AACE workshop and the GNOMIS event. TTC members supported the idea of more Task Forces meeting back-to-back. Ton Verschuren had some pressure from MACE and I2 people about the TF-AACE workshop and was worried about not having a fixed date yet. Yuri said that the meetings should be held in the 2<sup>nd</sup> week of November but it was not yet clear if UNINETT would be able to provide the logistic. **Yuri and Licia would find out and finalize the date.** In case of a negative solution with UNINETT Ton would be prepared to help in finding suitable alternatives.

The last TF-LSD meeting was devoted to assessing the status of deliverables, Yuri pointed the TTC attention to the meeting minutes. There was uncertainty about the possibility to complete them within end September, when the Task Force will terminate its mandate. Other issue related to the termination of the Task Force where that a few projects are still running and that TF-LSD is seen by many people in the community, including people from the US, as a point of reference about activities in Europe. Further discussion about these matters was going to be discussed later in the meeting under a specific agenda item.

Licia reported that a draft charter of the new TERENA Task Force on Mobility had been submitted to the mailing list three weeks before the meeting and she was going to produce a new version soon integrating comments she had recently received.

Contracts for the new version of the GNRT had been sent to the authors at the end of July, Licia was expecting to get initial contributions between mid September and November. A 1<sup>st</sup> version should be ready in December. The latest version of GNRT was published as a book. It was asked what feedback TERENA received about the success of the publication. Figures were not known exactly, but royalties paid amount to several thousands pounds a year. A new publication was not planned at the current stage, but likely it would be done again with the new version of the GNRT. One recommendation was to spend some effort in making it easy to move from the web edition to the paper one.

Licia attended the last GGF meeting in Edinburgh on 21-24 July. A report is available on the TERENA web site at <http://www.terena.nl/news/reports/2002/report06.pdf>. Interesting activities are now focusing around two main areas, application-web services and network performance monitoring. A discussion about the relationship between the TERENA and Grid communities was scheduled under a separate agenda item.

Kevin reported that the TEQUILA project had its last technical audit receiving a positive feedback from the Commission, who extended the project duration without additional funding up to October 2002. Kevin said that TERENA had accomplished its contractual obligation and was not working on the project anymore, except that in maintaining the web site.

The joint 6NET/Euro6IX workshop, organized by Kevin in Limerick had a good attendance and some promising follow-ups. 6NET had a full consortium meeting in the 1<sup>st</sup> week of September to provide an update on the project progress. The contract was extended to Hungary, Poland, Czech Republic and ETRI, Chorea. The network infrastructure was up and running whereas a certain number of Work Packages started recently their major activities. TERENA is responsible for dissemination activities and Kevin reported the need to raise the public profile of 6NET by enriching the web site. The consortium would start publishing press releases scheduled with project milestones and would work together to identify more press contacts. In addition they plan to produce short technical articles on a regular basis, that could also feed the 6NET newsletter to be produced by ULB. The main issue to be investigated by TERENA in the next months would be to provide an IPv6-enabled version of the web site.

The SCAMPI project started in April and was progressing on schedule, however the project was facing an issue in the partnership. Even if not explicitly stated in the contract 4PLUS was the partner in charge of developing the hardware adapters to be provided in the project. A significant amount of resources was allocated to 4PLUS for that purpose but following a management staff change 4PLUS was not prepared to provide the hardware anymore. It was argued that other partners in the consortium could produce a prototype in their own labs, or outsource the development. Kevin remarked that enough resources are provided for in the project for both options to be viable, however the first issue to be discussed by the consortium was the reallocation of the 4PLUS budget.

Incidentally the TTC discussed how the TERENA calendar of events should be maintained. The TERENA Secretary updates it once a month looking around at members web site. It was said that the TERENA TF-PR would be responsible for coordination of this activity and that they should be advised to pick this up in their activity planning.

### **Discussion of new TF-NGN work items**

The terms of reference of TF-NGN will expire on the 31<sup>st</sup> October 2002. TF-NGN activities are being successfully carried out in strict collaboration with GÉANT without being exclusively limited to that and no doubt they will continue on the same line. The TTC has the formal duty to extend or renew the terms of reference and it was agreed that this would be done by updating the list of work items in order to include the currently active ones. Valentino briefed the TTC about the status of activities in the current charter and provided an update about the new activities picked up in the Task-Force and included in the GÉANT roadmap for 2003. The

TTC informally agreed to the proposed list and suggested **Valentino to inform the TF-NGN group** at the next meeting on 17-18 October.

Specific comments on the current activities were:

- Over provisioned network performance analysis. Dimitrios had proposed TF-NGN to set up experiments on GÉANT PoPs. There was no direct follow up but some ideas are being implemented by IST projects, for example SEQUIN has identified monitoring equipment that is going to be installed at every PoP.
- QoS monitoring. Experiments are ongoing at GRNET and CESNET, also experiments on LBE have been carried out.
- Optical Networking. Not many deliverables had been produced, but lately there have been many more presentations than initially planned, a new emphasis was being given to the activity at the current stage.
- MPLS based Guranteed Capacity Service specification and implementation plan. This was not active due to lack of resources.
- Policy based networking. Was not active, but the issue is still very interesting for TF-NGN

The new activities in GÉANT roadmap not previously included explicitly in TF-NGN are:

- deploying an intra/inter-domain Network Monitoring Infrastructure
- Definition and organisation of a Performance Emergency Response Team (PERT)
- Support for Layer 2 VPNs

### **Status of TF-LSD**

Yuri reported that the Task Force has not completed some of the scheduled deliverables. Deliverables A, B and F are available, deliverable C has been published but it was recommended to improve it by including a black list of crawlers used by spammers. Deliverable D is in the final stage and even if some parts are still missing it should be possible to have it ready before the next meeting. Deliverables G to N are not likely to be produced at all either because some of them were too ambitious or the resources to do the work were not available. Four projects belonging to the Task Force are still ongoing. The issue was whether to terminate the Task Force or renew its mandate taking the situation into due account. If the Task Force will be extended than, according to a request from Peter Gietz, a co-chair should be appointed supporting him in his activity. It was observed that TF-LSD and TF-AACE have met regularly back-to-back and many participants are common to both Task Forces. Moreover, some TF-LSD work items will certainly pop up in TF-AACE in the future. David noted that LDAP and PKI are going to be separate issues for a while at least in the IETF however one could argue for the two groups to merge. Two options were proposed:

- a) to extend the mandate for one year including the active projects and the feasible work items, this would also imply that a co-chair needs to be appointed or
- b) to re-charter TF-AACE by including the active TF-LSD work items, in this case the Task Force might probably hold longer meetings than usually does.

**Yuri agreed to talk with the respective Task Force chairs and discuss which option** would be best.

### **Project proposal on IP Telephony Cookbook.**

The University of Pisa, the University of Bremen and FhG Fokus had submitted a project proposal for an IP Telephony Cookbook. Valentino summarized the proposal by providing details of the consortium, the technical content and the project rationale as it was discussed in two consecutive meetings TERENA had organized since September 2001. Claudio and Ton remarked that the proposal goes in the right direction to reach out to end-users. It was also noted that the technology is rather mature and the quality of IP phones is very good. There are issues related to proprietary and standard technologies, which have different level of maturity, but it was agreed that the project addressed them both in the correct way.

The TTC approved the project by only recommending the proposing partners to provide implementation guidelines specifying the conditions under which IP telephony solutions are usable and not usable.

The project is envisaged to span over a period of 12 months with a total of 11 person-months. The requested financial contribution amounts to 69,800 Eur, including 11,000 Eur of travel budget. The TTC observed that a significant amount should come by TERENA members and it might be difficult to reach the requested amount. **Valentino will inform the proposing partners about the project approval and the funding issue and try to negotiate a low-down of the requested contribution.** As a 2<sup>nd</sup> step TERENA would ask the NRENs to support the project, a specific message can be conveyed to the NRENs via the GA meeting on 24-25 October in Prague. If TERENA does not succeed in getting all the requested funding Valentino would report back to the partners and try to negotiate a reduced project matching the budget obtained.

### **Feedback on TTC Videoconference meeting/s**

The TTC chairman reported on the feedback received about the H.323 videoconference meeting of 8<sup>th</sup> July 2001. Some participants were not able to connect to the MCU because of limited dial-in capability, but the problems could have prevented by doing some tests sufficiently in advance. People found that technical problems distract you from the agenda and there was overall consensus that the technology was not very suitable for brainstorming meetings because in a brainstorming the feeling of a group meeting is essential and to have that one needs to see all participants at the same time. To achieve that it was agreed to explore the use of VRVS. Roberto said the VRVS service at CERN could be used and booked a (virtual) room at <http://vrvs.org> for **an experiment to be carried out by all TTC members on 7<sup>th</sup> October 14:00 to 15:30 CET**. He also suggested of trying to use VNC <http://www.uk.research.att.com/vnc/> to share the desktop. Another alternative would be to install a VRVS server at TERENA, **Valentino would talk to Dick about installing VRVS server at TERENA and with Roberto about VNC.**

### **Input to NMI middleware programme.**

Ton said that the Schema Registry software was mentioned on the NMI mailing list as one of the contribution from Europe. Americans would like to include pieces of European software in their releases. Ton said he already talked to Ken Klingenstein about making PAPI available and asked the TTC about any other ideas. The TTC discussed about possible problems with licenses and it was remarked that even though there are different models this should not be an issue. Bob Morgan has contacted David Chadwick about the possibility of PERMIS being distributed in the NMI release and David is very interested. Discussions are ongoing.

### **GRIDs**

On request of Roberto, the DataGrid web page provides a link to the TERENA web site home page, but it should link to a specific page where TERENA GRID interest and activity are explained. **Yuri is developing such a page and when it will be ready Roberto will ask the DataGrid webmaster to update the link.** Roberto will also provide Yuri a pointer to a list of IST funded GRID projects, he will circulate that list within the TTC email distribution list first. It would be advisable to maintain a list of GRID events worldwide. Yuri would work with Roberto on that. TERENA should host a GRID related mailing list. The purpose of the list would be to provide announcements, and information on GGF working groups for people in the community who are not necessarily subscribed to GGF lists, the list might also be used to provide a reader`s digest on GRIDs.

Licia asked if PDOs attending GGF meetings should contribute to working groups. This led to a more general question about the TERENA community role in GGF and the role of TERENA staff in GRID activities in general. Valentino noted that the European Commission will put a strong emphasis on GRID in FP6 and following that impetus the role of NRENs might become clearer in one-year time. As a consequence the role of TERENA would become clearer too. David asked whether the role of TERENA staff in GRID FP6 active would focus on research or dissemination. TERENA can certainly work on getting information about EU GRID projects. Karel advised to clearly distinguish between GRID activities and FP6, the worrying aspect being that FP6 GRID money would go to university rather than NRENs. But TERENA can have a role in bridging the two communities, for instance by helping to showcase applications that can demonstrate the usability of the research. Roberto said he is doing something along that line now in collaboration with CNR and TERENA follow the example for GRID projects, not necessarily needing to wait for FP6. Some NRENs are already starting now to talk to the universities and look into the applications they run to show them how they can run them more effectively on a wider higher-performance distributed platform. Dimitrios said he is more interested in by-products of GRID projects, like Authorisation and Authentication solutions, and feel they are important for the community at least from a network engineer standpoint. He suggested that people from TF-NGN and TF-AACE, gather together and discuss the common interests. Brian explained the gap between the two communities in terms of different time pressure/ priority regarding AA for instance. Grid people need them immediately whereas the TERENA community need more thought-of scalable solutions. Roberto remarked that DataGrid is setting up a process to trust new certification authorities and they need a scalable solution too, so it is important to try to bridge them.

A different idea about TERENA dissemination role in relation to FP6 would be for example in establishing contacts with people who have submitted Expressions of Interests to the Commission call and offering TERENA as a good dissemination partner.

### **EOI TERENA Networks of Excellence**

An Expression of Interest about forming a Network of Excellence was submitted by TERENA to the European Commission in June. The TTC chairman reported about the main idea and said that it is important to be ready, when the Call for Proposal will be open, likely in November, with the topics that TERENA wants to address. It was not very clear what the rules of the game will be, but David mentioned some public information he obtained from the UKRO - FP SPOTLIGHT about one of the goals being exchange of researchers between institutions, and apparently the Commission may provide funding up to 20% of researchers time. The Commission gives access to working documents dated 5 August 2001 at <http://www.cordis.lu/rtd2002/fp-activities/instruments.htm>. A short brainstorming about potential topics led to identifying areas like optical networking and security as very preliminary targets for the 1<sup>st</sup> call expected in November 2002.

### **Any Other Business**

The TTC chairman report about a recent interaction with people from the *CASES* Ten-Telecom proposal aiming at setting up Europe-wide security centers for fighting malicious codes and protecting ICT infrastructures. Participants in the proposal had a number of discussions with people from the *Trusted Introducers*, GARR and with Peter Kossakowski in the TF-CSIRT mailing list. *CASES* had expressed an interest to complement TERENA activities. They agreed to provide TERENA with a final version of the proposal and there is an opportunity for the community to provide them with feedback. A few CSIRTs said they will not take part in the project, but it could be interesting for other organizations.

Following up on a discussion during the TAC meeting in Limerick in June Brian asked **to include an item in the next TTC meeting agenda about how to provide input to MACE.**

### Date of next meeting

The next meeting would be held on 3<sup>rd</sup> December 2002 at the TERENA office in Amsterdam.

### Summary of New and Open Actions

020121-02	Secretariat to make a clear archive of old TERENA projects	ONGOING
020603-02	TTC - to stimulate NRENs in providing answers to the Deep2 questionnaire distributed in summer 2002	CHANGED
020708-02	TTC members to Keep each other informed about the activities that anybody is taking to bridge to campuses.	ONGOING
020906-01	Yuri and Licia would to finalize the date of TF-AACE, TF-LSD meetings and TF-AACE workshop in agreement with the GNOMIS organizers.	NEW
020906-02	Valentino to inform the TF-NGN group about the revision of the Task-Force Charter at the next meeting on 17-18 October.	NEW
020906-03	Yuri to discuss with the TF-AACE aND TF-LSD chairs about the options of extending the TF-LSD mandate or merging it with TF-AACE.	NEW
020906-04	Valentino to negotiate the IP Telephony Cookbook proposal.	NEW
020906-05	TTC to hold a VRVS conference experiment on 7 <sup>th</sup> October 14:00 to 15:30 CET	NEW
020906-06	Valentino to discuss with Dick Visser about installing VRVS server at TERENA.	NEW
020906-07	Yuri and Roberto to finalise TERENA web page on GRIDs.	NEW
020906-08	TTC to include an item in the next meeting agenda about how to provide input to MACE.	NEW