

**Minutes of TERENA Technical Committee Meeting  
Monday 5 November 2007  
TERENA Office, Amsterdam**

Valentino Cavalli  
Version 2, 17 December 2007

**Present**

Christoph Graf, VP Technical Programme & TTC Chairman  
Andrew Cormack  
Diego Lopez  
Afrodite Sevasti  
Martin Sutter  
Karel Vietsch

**TERENA Staff**

Valentino Cavalli (Acting TTC Secretary)  
John Dyer  
Licia Florio  
Kevin Meynell

**Apologies**

None

**1. Review of Open Actions from Previous Meetings**

<b>Reference</b>	<b>Who</b>	<b>Action</b>	<b>Status</b>
20070723-01	KM	Kevin to follow up with the organisation of the first NGN workshop at the end of October	DONE
20070723-02	CM	Cătălin to draft questions, discuss with Karel, Andrew and Christoph and share the agreed questions with other TTC members, then send to TF-CSIRT distribution list.	DONE See item 3 in this report
20070723-03	VC	TERENA secretariat to acquire detailed information about the DAME2 proposal.	DONE See item 3 in this report
20070723-04	CM	Cătălin to follow up on bringing people interested in testing eduroam and SIP in TF-ECS.	DONE See item 3 in this report
20070723-05	GvB	Guy to formulate a procedure for requesting updates from SCS subscribers and providing a six-monthly newsletter.	OUTSTANDING See item 3 in this report

Table 1 Status of actions from previous TTC meetings

## **2. Approval of Minutes**

The minutes of the TTC meeting of 23 July 2007 were approved.

## **3. Review of outstanding action list**

The action list was discussed. The status of actions discussed at the meeting is reported in table 1 above.

TTC members discussed the follow up on action 20070723-02. It was initially suggested that participants in the next TF-CSIRT meeting, scheduled on 28-30 January 2008, should be invited to talk about the renewal of the task force Terms of Reference; however after some discussion it was felt more appropriate to postpone this to the following meeting, expected in May 2007. In any case, it was agreed on the importance of understanding the main issues CSIRT teams are facing, in order to prepare for the revision of the task-force mandate. It was agreed that a selected number of teams – at least three – should be invited to present their major issues at the next TF-CSIRT meeting.

ACTION 20071105-01 Kevin to invite a small set of CSIRT teams to make a presentation on open issues at the TF-CSIRT meeting scheduled on 28-30 January 2008.

Although TERENA was not invited to join it, the DAME2 proposal (see action 20070723-03) was submitted to the latest FP7 call, with the name "EUFRACTES". The proposal was lead by the University of Murcia and the University of Stuttgart. They had contacted a number of possible partners, including DFN and RedIRIS. The proposal was looking at a combination of DAME resources and encompassed work on mobile-wireless access. The emphasis of the proposal was on the commercial sector and it included a few testbeds for infrastructure interoperability. At the time of the TTC meeting it was not known whether the proposal would be retained for funding or not. In any case Diego was planning to report on the outcome of the call to the TF-Mobility group.

A discussion on eduroam and SIP was triggered by action 20070723-04. TTC members suggested speaking with appropriate standardisation bodies concerning user authentication; this could be done with eduroam credentials but Licia thought eduroam would not want to support that. Diego replied that in Spain they are actually working on this. Licia said participants in TF-ECS had spoken with TF-EMC2 and TF-Mobility and they found out that there are significant authentication problems to be addressed. Christoph thought it would make more sense to have the SIP stakeholders leading this work rather than the Mobility ones. Licia thought that indeed TF-ECS should take the lead, but she did not feel sure this would likely happen. Diego suggested that it should be kept in the agenda of all three task forces for the time being. He added that connecting SIP with mobility technologies is not an easy matter for NRENS as this would need to involve vendors as well.

Action 20070723-05 was not done; however the TTC considered this as an important action and suggested bringing the issue up during a meeting of SCS participants, tentatively scheduled in February 2008. In preparation for the discussion in February TERENA should clarify what type of information should be obtained by NRENS.

ACTION 20071105-02 Licia to insert an item in the agenda of the next SCS meeting about communicating updates with SCS subscribers.

#### **4. Status of technical strategy concerning GN3**

Afrodite was invited to brief the TTC on the progress of the work carried out by the GN3 strategy group. The work looks at the technical challenges for GN3. The strategy group is composed of David Foster, Erik-Jan Bos, Vasilis Maglaris, Hans Doebbeling, Afrodite Sevasti, Dorte Olesen, Lars Fisher, Roberto Sabatino and Milos Karapandzic.

Afrodite explained that the work of the group focuses on technology and innovation, not on policy and related matters. The strategy group has been working on a green paper addressing key technical elements – feedback will be sought after from NRENs – and should ultimately lead to a white paper to be ready at the end of December 2007. An interim report was distributed to the NREN PC the week before the TTC meeting.

Several points from the green paper were presented, on a confidential basis, to the TTC; some of the general points mentioned during the meeting regard the orientation of the GN3 project, such as: stable operation of multi-domain hybrid network backbone, extend services to lower-layers switching and protocol agnosticism. There will be several innovation components in GN3, including the investigation of new optical technologies and protocols. Finally, the group was looking at GN3 as an eInfrastructure project, integrating the network backbone with high-performance computing facilities.

Christoph said the work of this group touches on TERENA activities and interests in many ways, such as for instance, in the integration of computing and Grids, the campus requirements, the inclusion of "other" users and research on networking.

Karel felt that it is very ambitious to fully address multi-domain end-to-end services: he reckoned this is good in terms of strategy but clearly GN3 cannot be responsible for systems and services that lie outside of the NREN control at the end-user site. He thought for the GN3 community it was essential to clearly understand who is responsible for what.

Afrodite said she could raise the point in the strategy group, even if the group was not really looking beyond strategic issues yet. She added that in her view future end-to-end services should be based on a model, which is similar to the current IP premium service: it is available, it is deployed and operational at some NRENs, but does not cover the whole constituency or imposes its coverage from day 1: more NRENs can and will be allowed to gradually join the service.

Valentino thought there would be a role for TERENA in supporting wider interaction/coordination among the different networks (pan-European, NREN, campus) concerned; however, he said, it was important that this was clearly understood and to know if people agreed with this vision.

Kevin thought this approach was related to what TERENA could propose/suggest at the NGN workshop that was scheduled the day after the TTC meeting. The following suggestions were made: 1) formulate requirements for testbed facilities and 2) discuss vendors participation.

Christoph suggested an open approach, observing that it is much easier to get some things done in a task force than inside a project, where the work should be confined inside the NREN boundary.

Afrodite remarked that there are things which goals are very tangible and these should be part of GN3, whereas other, more loose ones, should be part of task forces; she thought it may be worth to list the items that should be dealt with at each level.

Kevin, presented briefly the contents of the NGN workshop to be held the day after the TTC; he described the background and the major points for consideration; he obtained some feedback from TTC members.

## **5. Plans for event on end-to-end issues**

On request of some members TERENA has been planning to organise a workshop on end-to-end service provisioning in 2008.

The rationale for the initiative is that provisioning of end-to-end services is becoming a significant part of NREN's service portfolios, but to do this one needs co-operation between NRENs, metropolitan, campus and local networks on both endpoints. The backbones of NREN's as well as GÉANT2 are ready to deliver such services, whereas the metropolitan, campus and local infrastructures could be the bottlenecks due to technical reasons. As a result TERENA would like to organise an event similar to EUROCAMP on end-to-end service provisioning, bringing together people responsible for the different parts of the end-to-end path. More workshops may be organised if there will be sufficient follow up; the first event would be intended for information and discussion only, further ones may look into fostering collaboration and or knowledge transfer.

Afrodite remarked that this event could be similar to a set of hands-on workshops on designing and engineering dynamic circuits, which are organised by Internet2 and sent a pointer to the TTC list: <http://events.internet2.edu/2007/DCS/>. Afrodite offered collaboration from GN2 JRA3 activity in the form of supplying material for hands-on and also contact details of people, who may be interested in collaborating.

The information provided by Afrodite triggered a discussion among TTC members about the different opportunities of "static" versus "dynamic" circuit provisioning. Andrew concluded that it would be good to clarify what exactly the topic of the workshop should be: an event on "static" provisioning may be aimed mainly at informing regional and campus networks, whereas a "dynamic" one could include NRENs and researchers and be more oriented towards brainstorming new ideas.

Afrodite was also wondering what would be the target user group of these end-to-end services. Apparently there are not many users for such services yet, but the experience of the lightpath competition organised by SURFnet and NWO in the Netherlands shows that this is not really the case: if this happened in a few more countries it would seem quite easy to reach a significant mass of users to be involved.

## **6. New TTC members**

At the time of the meeting there were two vacancies in the TTC, to replace Jean-Paul Gautier and Steve Williams. Starting from December 2007 one more vacancy would arise because of Martin Sutter mandate expiration.

Traditionally there has been a one-to-one mapping between a certain technical area and a TTC member portfolio. Christoph remarked that although this has worked fine, the TTC should act as a group where all individuals contribute to the whole discussion, by still being experts in certain areas; therefore he suggested looking at areas where there are deficits and try to fill the gaps. Clearly there is currently a lack of representation from the Grid community. Two candidates for covering this area were discussed: Mathieu Goutelle from CNRS/UREC and Christos Kanellopoulos from the University of Thessaloniki. It was felt that more expertise was missing in such areas as networking and AAI.

Christoph remarked that the vendors community is not normally represented in the TTC. At the end of a discussion about the pros and cons of such a

representation, Christoph summarised that one should be aware of potential sensitivities and drawbacks, however it was suggested to have a discussion about this in the TERENA Executive Committee.

Martin asked what was going to happen with the consultation work he had started during his mandate as TTC member and if there would be any continuation. Christoph said it would be good to have either somebody from the Campus community or somebody from EUNIS on board. Although no name was made the TTC agreed it makes sense to look into that direction. It was felt interesting to look at IT services exposed to universities; it was also suggested to look at the attendance lists of the latest TNC and EUNIS conferences.

Later on the name of Rojelio Montanana, Spain, was made by Diego.

ACTION 20071105-03 Christoph to look at candidate for TTC membership and discuss the outcome with the TEC.

## **7. Outreach to medical user community**

Diego started the discussion on this agenda item by reminding the TTC that with the PEACHES group some work to reach out to users in the Arts and Humanities area had started and he was wondering if TERENA should not try to reach out to medical users as well.

Christoph thought this was an interesting topic, but he thought in some countries, at least in Switzerland, things may be not ripe yet. He was also a bit concerned about organising a workshop to explore the interest of the community, mostly because there are many workshops already being planned right now, so he thought it was probably better to encourage people to present at TNC. The goal of this would be to raise awareness among NRENs about the issues at stake. Andrew suggested inviting Malcolm Teague to present the Janet NHS-Higher Education Connectivity Project (<http://www.nhs-he.org.uk/>) at TNC.

Valentino mentioned the GARR conference held in Rome at the end of October and a number of planned follow-up workshops. He had attended the conference, which had lined up a significant number of speakers to present and discuss IT and networking applications in areas not traditionally covered by NRENs, such as the medical community, arts and humanities, cultural heritage, etc. The programme of the GARR conference and the abstracts (mostly in Italian language) are available at <http://www.garr.it/conf07/programme.html>.

## **8. ECAM update and upcoming initiatives**

Diego briefed the TTC on two issues that were raised during ECAM conference calls: work on attributes and providing access to how-to documentation.

The point on attributes was meant to inform TTC members about an idea that was triggered by work of GN2 NA2 on user segmentation. A discussion was held during the ECAM conference call of the 24<sup>th</sup> of October 2007, where it was suggested that it would be interesting to look at a common semantic for directory attributes related to educational user groups. The outcome of the ECAM discussion was that members of GN2 JRA5 would raise this point at the next GN2 Technical Workshop to be held in Rome in January 2008.

The second point was about providing access to a number of how-to documents and recommendations on various topics, such as, for instance, on "secure federated access management systems", etc. The idea behind this was to make ECAM activities better known to a broad target audience.

Diego asked the TTC whether they agreed on the feasibility of providing such documentation via the ECAM website and, if yes, whether to present this

documentation in the form of "recommendations" or in some more lightweight form. It was suggested not to use the term "recommendation" which may have serious legal implications, but rather to present the documentation with a sentence like "the following has been found useful by other members of the community".

ACTION 20071105-04 Licia and Diego to make useful documentation available on the ECAM website.

## **9. Review Progress in Task Forces**

### **9.1. TF-CSIRT**

TF-CSIRT held its latest meeting in Porto in September. The intended discussion about the future of the task force and new topics did not take place. TTC members commented on a few practical-logistic issues. It was reminded that a few years ago TERENA had produced a document with guidelines for organising TERENA meetings. The document was still quite usable and it was recommended to distribute it to potential hosts of future TERENA meetings.

The next TF-CSIRT meeting, scheduled at the end of January 2008, will be combined again with a FIRST technical colloquium. Kevin will start soon to work on organisation matters.

### **9.2. TF-EMC2**

TF-EMC2 held a meeting in Prague in September. It is worth pointing at the Refeds meeting, "International Federation Peering", to coordinate between federations, which was held back-to-back with the TF-EMC2 one. This initial meeting was very promising in terms of steering collaboration. Licia reported she also got a lot of additional information after the meeting and she would follow up on this. There were plans to organise a second meeting, but at the time of the TTC meeting it was not clear when and where it would take place.

The next TF-EMC2 meeting will be held jointly with TF-Mobility in February 2008 in Marseille.

### **9.3. TF-MOBILITY**

The latest TF-Mobility meeting was held in September in Zurich. Licia said this time the agenda was a bit wider than before, in an attempt to broaden the areas of interest; as an example, sensor networks was introduced as a new topic; however eduroam-related discussion still dominated the meeting.

TF-Mobility had been looking at other work areas recently; these include discussion of a Radsec specifications document issued by Stefan Winter; liaison with Open SEA <http://www.openseaalliance.org/> in relation to work on 802.1x supplicants; usage of wireless to run all sorts of applications and mobile IPv6.

### **9.4. TF-ECS and TF-VSS**

TF-ECS met in September in Prague. The next meeting was scheduled via videoconference on the 12<sup>th</sup> of December. The task force had not been very active recently and the progress of work had slowed down a bit.

Valentino reported that TF-VSS had terminated its work by developing a plan for a pan-European videoconferencing service, which was incorporated in the new SA6 activity in GN2. TERENA would be involved in the activity as website host.

## **10. External Projects**

### **10.1. GN2 - EARNEST Update**

Karel reported briefly that the final editing of individual sub-study reports, as well as work on the final summary report, was ongoing.

### **10.2. GN2 - Development Support Update**

Valentino updated the TTC on three major activities: the EUMED event which was held in Brussels in October; the round table on research and education networking in Bosnia and Herzegovina, to be held in Sarajevo on the 20<sup>th</sup> of November and the ongoing talks with CEENet about preparing for a possible country needs assessment of Ukraine.

### **10.3. eduroam SA**

Licia reported about the progress made with respect to the eduroam policy. She mentioned that Miroslav Milinovic is the leader of the GN2 SA5. TERENA's role in the activity will be to run the confederation website.

Licia remarked that end-user support at campus level would not be part of the eduroam service to be provided by SA5. This will have to be provided by the campus IT staff.

### **10.4. NoAH**

Kevin said the NoAH system was up and running. Work to be done next included some testing, looking also at scalability and optimisation. Christoph asked if ISPs were involved. The next NoAH meeting would be held at the TERENA offices on the 12<sup>th</sup> of December.

### **10.5. SEEREN2**

TERENA had not been involved in any work on SEEREN2 since the last TTC meeting. Valentino was going to present the project dissemination activities at the forthcoming project review meeting on the 21<sup>st</sup> of November in Sarajevo.

### **10.6. FEDERICA**

Valentino mentioned that the negotiation of the FEDERICA project had ended successfully. The project was expected to start on the 1<sup>st</sup> of January 2008. A new PDO will start working at TERENA from the same date; FEDERICA JRA2 will be part of his portfolio.

## **11. Other Activities and Workshops**

### **11.1. NRENs and Grids workshops**

Licia mentioned that the latest NRENs and Grids workshop had focused on networking and middleware. On the middleware side, attributes were discussed, particularly looking at how these are handled by the two communities. The programme of the next workshop, to be held in November, was very much middleware oriented; Licia said one goal was to understand if the two communities can really work together or, at least, to foster common understanding.

## 11.2. EuroCAMP

Licia said plenty of real cases would be presented at the EuroCAMP meeting to be held in November in Dubrovnik. She was still a bit concerned about the number of registered attendees. Diego though maybe now we are getting close to some saturation and he suggested to consider holding the next meeting over a period of nine months instead of six. It was agreed to wait until an evaluation of the Dubrovnik event was made.

## 11.3. Server Certificate Service (SCS)

Licia reported briefly on some outstanding issues with SCS. The TTC was informed that a meeting between TERENA and GlobalSign would take place early in 2008, followed at short notice by a meeting with all SCS partners. The dates of either meeting were not fixed yet.

## 11.4. TERENA Guide to Network Resource Tools

John said he was looking into the received GNRT contributions. All text was in and was being migrated to the Confluence wiki software platform. However the text still had to be edited in terms of language, content, format. TERENA staff members were busy with that at the moment and it was not easy to predict when the work would be ready.

## 12. Date of Next Meeting

The next TTC meeting will be held on Monday 25 February 2008 at the TERENA office in Amsterdam.

## 13. Any other business

Andrew informed the TTC that Malcolm Teague had just agreed to submit a paper for TNC2008.

Valentino mentioned the organisation of the second Storage collaboration meeting, to be held in Amsterdam on 14 December.

On request from Carol de Groot, Valentino asked TTC members if there were any plans for additional meetings around TNC2008. Licia agreed to contact TF-ECS participants about a) a possible task force meeting and or b) a repeat of the VoIP and videoconferencing course. A CCIRN meeting should take place around TNC and possibly a new meeting of REFEDS – possibly a full day.

ACTION 20071105-05 Licia to discuss and finalise the options for additional task-force related meetings around TNC.

### Summary of New and Open Actions As of 19 September 2006

Reference	Who	Action	Status
20071105-01	KM	Kevin to invite a small set of CSIRT teams to make a presentation on open issues at the TF-CSIRT meeting scheduled on 28-30	NEW

		January 2008.	
20071105-02	LF	Licia to insert an item in the agenda of the next SCS meeting about communicating updates with SCS subscribers.	NEW
20071105-03	CG	Christoph to look at candidate for TTC membership and discuss the outcome with the TEC.	NEW
20071105-04	LF DL	Licia and Diego to make useful documentation available on the ECAM website.	NEW
20071105-05	LF	Licia to discuss and finalise the options for additional task-force related meetings around TNC.	NEW

Table 2 Open actions