



24th TF-Mobility and Network Middleware Meeting - Thursday, 30th June 2011

Online. The meeting was hosted by Cisco Webex.

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1. Welcome and Apologies

Klaas Wierenga welcomed everyone to the meeting. Attendance and Apologies were recorded on the event registration page: http://www.terena.org/events/details.php?event_id=2034

2. Approval of Agenda, Minutes of Last Meeting and Update of Action List

The agenda was modified as the day progressed with the final version available online: <http://www.terena.org/activities/tf-mobility/meetings/24/>

The minutes of the last meeting held on the 16th of February 2011 were approved without further corrections and are available at:

<http://www.terena.org/activities/tf-mobility/meetings/23/minutes.pdf>

Summary of Actions

Reference	Who	Action	Status
20110216-01	Klaas	Identify what series of equipment is capable of 802.1X-2010.	<i>Carried over.</i>

20110216-02	Leif Milan	Explore certificate chain validation to verify the applicability of the use of TCS certificates for dynamic RADSEC.	<i>This was carried out during TF-MNM meeting 23. Milan will circulate his slides/notes on this topic to the mailing list.</i>
20110216-03	Mark	Announce the location aware survey to the TF-MNM mailing list.	<i>The survey has concluded and Mark thanked those that participated. The summary will be sent to the list soon.</i>
20110216-04	Roland	Make a call on the MNM and DNSSEC mailing lists regarding the measuring of validating resolvers and stub client investigation activities.	<i>This will be covered by Roland's presentation that will be presented by Klaas during the meeting.</i>

3. Work items updates - All Work items (WI) leaders

3.1 Standardisation process - Stefan Winter, RESTENA

Stefan provided a status update on RADIUS/TLS and Dynamic Discovery work being conducted within the GN3 project which was a revision of the presentation at the GN3 JRA3/SA3 face-to-face meeting in Lisbon. The slides are available at <http://www.terena.org/activities/tf-mobility/meetings/24/tf-mobility-tls.pdf> There are now trials of a pre-release of FreeRADIUS 3.0 by eduroam participants connected to JANET(UK). Due to a thread concurrency issue it isn't recommended to use RadSecProxy for Dynamic Discovery at this point in time.

3.2 Support for the development of the next generation eduroam - Stefan Winter, RESTENA

Stefan gave an extensive presentation on the eduroam Configuration Automation Tool (CAT). Slides available at: <http://www.terena.org/activities/tf-mobility/meetings/24/tf-mobility-cat.pdf> The development website is available at <http://leopard-www.uci.umk.pl/CAT/>

The problematic "eduroam Fixer" which works for too narrow a market to be generically referred to as "eduroam" nor a "fixer". This application removes any SSL checks which can subject a user to a man-in-the-middle attack.

<https://market.android.com/details?id=nl.luqq.eduroamfixer>

3.3 Metering and monitoring - Stefan Winter, RESTENA (for Miroslav Milinović, Srce)

Stefan presented slides prepared by Miro, available at: <http://www.terena.org/activities/tf-mobility/meetings/24/tf-mobility-metering.pdf> on the status of the Metering and monitoring work. Currently 29 of 37 (European) countries are providing details to the eduroam database. There are no details for non-European countries - nor a service that these countries could use.

There are 23 of 37 countries using F-Ticks for reporting from their National infrastructure. F-Ticks has also been re-purposed by Leif Johansson <https://github.com/leifj/ndn-shib-fticks> to report from Shibboleth log files.

3.4 Support for eduroam world-wide- Klaas Wierenga (for Miroslav Milinović, Srce)

Klaas provided an update of the global eduroam governance committee and its goal of a Compliance Statement that can allow unilateral declaration for eduroam roaming operators (RO) world-wide.

Stefan reported that from the GN3 SA3/JRA1 Face-to-Face meeting in Lisbon the discussion of IPv6 vs routable addresses in Europe had concluded that IPv6 CANNOT be made mandatory at this point in time and the requirement of routable addresses for eduroam Globally should be softened to a SHOULD. Hideaki reported that there are no contentious issues in the Compliance Statement from the Japanese perspective. There are some issues raised by AARNet/Australia that need to be addressed which will see a further version of the document being issued for GeGC members approval.

3.5 Future DNS - Klaas Wierenga (for Roland van Rijswijk, SURFnet)

Klaas presented the slides made available by Roland van Rijswijk, which are available at: <http://www.terena.org/activities/tf-mobility/meetings/24/20110630%20-%20TF-MNM%20update%20DNSSEC.pdf>

Currently areas of interest are: Measuring the number of validating resolvers in use, UDP fragmentation issues causing resolution problems and a side effect of UDP fragmentation sends ICMP messages which can be detected. Further research will continue into these areas and interested contributors should contact Roland.

For local DNSSEC validation and testing the Firefox plugin <http://www.dnssec-validator.cz/> from NIC.cz is worth investigating.

[**ACTION**] Roland to qualify the country map diagram (slides 6) and in particular the bright red for Madagascar and even darker colour for Togo.

3.6 Enabling Ubiquitous Mobility- Klaas Wierenga (for Paul Dekkers, SURFnet)

Klaas presented the slides of Paul Dekkers, available at: <http://www.terena.org/activities/tf-mobility/meetings/24/eam-jun30-01.pdf> Paul's slides called for wider contributions from the community on "Integration with other operators".

Mike Norris referenced their strategy report (due in early July) that there is a preference to use WiFi even if there is free 3G available to the user. This work is based on Ericsson Labs work and is due to the performance profile of WiFi vs 3G. The report is available at: http://www.heanet.ie/sites/default/files/HEAnet-Mobile-BB-Study-Report_0.pdf

José identified why you need high density wifi and why 3G won't work <http://www.flickr.com/photos/luc/2944876508/sizes/o/in/photostream/> Stefan referenced the never ending drop in price of 3G tariffs from mobile operators. The most recent being Vodafone <http://www.vodafone.de/privat/tarife/reiseflat-data.html>

[**ACTION**] Brook to invite HEAnet and other interested parties to the next TF-MNM meeting on the topic of "Integration with other operators".

3.7 Scalable 2-factor authentication - Joost van Dijk, SURFnet

Klaas presented Joost's slides on 2 factor authentication, available at:

<http://www.terena.org/activities/tf-mobility/meetings/24/2factorauthN-tf-mnm-jun30-2011.pdf>

tiQr (information available from <http://tiqr.org/>) has been publicised at many events. In addition to extensive documentation on the tiQr website there are now collaborations with <https://nomopass.com/> to provide an OpenID provider and an RCDevs tiQr authentication server supporting SSH <http://rcdevs.com/products/tiqr/> .

3.8 Location awareness - Mark O'Leary, JANET(UK)

Mark presented the "eduroam Companion" iPhone application, slides available at:

<http://www.terena.org/activities/tf-mobility/meetings/24/eduroam%20companion.pdf>

The app presents nearby eduroam hotspots and has the ability to report back on hotspot locations offering a crowd-sourced pool of eduroam location data. A new development group has been formed and will be porting the "eduroam Companion" from iPhone to Android. Mark made a call for people to publish their statistics and details in the eduroam database.

3.9 Sensor and mesh networking - Kurt Bauman, SWITCH

Kurt was unable to attend the meeting and will provide a summary to the mailing list.

[ACTION] Kurt to provide an update on the mailing list.

3.10 Integration of network middleware with identity federations - Josh Howlett (for Leif Johansson, SUNET)

Josh provided a summary of the work within the IETF relating to Moonshot supporting technologies, with work on the core documents processing nicely.

3.11 Liaison with GN3 & other initiatives - Licia Florio, TERENA

Licia had nothing significant to report at this time.

3.12 New mobile technologies - Klaas Wierenga, Cisco Systems

Klaas had nothing to report at this time.

4. National and Community Updates

- Sweden** >90% coverage of Universities so mopping up the few remaining institutions is the current work effort. Looking at CAT to assist the connection of computers and smart phones. Was originally looking at a separate solution but adopting CAT unifies the effort of a single general purpose support tool.
- UK** QICom supplier of telecom grade antennas from Altia http://www.altiatechnologies.com/A8_Base_Station.php can offer 14Mb/s @ 600m with unmodified laptops with a single aerial. This would allow coverage in all the space between buildings from a single mast. Public library WiFi network has been requested as an area of future exploration.
- Japan** Additional institutions - now 21. Growth in % is large - but there is still a long way to go before 100% institutional coverage.
- Spain** 115 institutions (2 since last report). Concentrating on the monitoring system announced at the Lyon meeting.

Latin America Two countries are connected to eduroam Globally for testing and interoperability checks - which have been performed by Paul Dekkers and José-Manuel. One institution from Peru and seven institutions from Brazil are part of this technical interoperability testing. Approaches have also been made from Mexico. Exact details are unknown but CLARA held a meeting last week on eduroam.

Ireland 40% of HEAnet clients have eduroam (which relates to 60% of the user base). Hoping to move to 90% of the user population. Also investigating a CAT like tool. Looking at policy changes due to reliability issues experienced by roamers as the quality of service at some times is poor. Also discussing with mobile providers on extending eduroam coverage, offload to WiFi, educational bundles and development options. There are indications that there will be attractive offers and development opportunities and final decision.

Slovakia 10 participating institutions. Working with smaller institutions on a 1:1 basis. Initially accepting IdP only sites, which has been successful in converting sites to eduroam SPs after they appreciate the value of eduroam.

5. Date of Next Meeting

The next meeting has already been scheduled for Wednesday, November 9th, 2011 in Bologna aligned with the GARR conference. <http://www.terena.org/activities/tf-mobility/meetings/25/>

6. AOB and Close

The meeting closed at 17:30. (Minutes published 2nd September 2011)

7. Summary of Actions

Reference	Who	Action	Status
20110216-01	Klaas	Identify what series of equipment is capable of 802.1X-2010.	
20110630-01	Roland	Qualify the country map diagram (slide 6) and in particular the bright red for Madagascar and even darker colour for Togo.	
20110630-02	Brook	Invite HEAnet and other interested parties to the next TF-MNM meeting on the topic of "Integration with other operators".	
20110630-03	Kurt	Provide an update on the mailing list on the Sensor and Mesh Networks WI	