

Michael H. Behringer
TEN-97-033v2
20 February 1997

Notes of the TF-TEN Conference Call
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17 February 1997, 15:00-17:30 CET

Agenda:

- A. Update and last steps on experiments
- B. JENC update
- C. AOB

Participants:

Mauro Campanella	INFN/GARR
Christoph Graf	DANTE
Simon Leinen	SWITCH
Kevin Meynell	TERENA
Zlatica Cekro	ULB
Victor Reijs	SURFnet
Phil Chimento	University Twente
Robert Stoy	RUS
Olivier Martin	CERN
Paulo Neves	FCCN
Jean-Marc Uze	RENATER
Guenther Schmittner	ACOnet/Uni Linz
Michael Behringer	DANTE (chair)

A - Update on Experiments

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1. TCP-Perf (Mauro)

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Proposal is to conclude the experiments. Since the last deliverable there is essentially nothing new on those results. These should go into the final deliverable.

Today, Mauro sent a mail about the behaviour of Ciscos on a 2M VP, which showed that the bandwidth can be filled up to 97% of the theoretical value. Cisco has replied to a question that the kbit/s used in the atm pvc command means 1024 bit/s (not 1000 bit/s), which was not clear. Unclear whether this reply is authoritative. There are still also open

questions on the granularity of the kbit/s settings.

Action 7.1: Mauro and Guenther: Contact Cisco about 1024 vs. 1000 problem and the granularity problem.

2. SVC (Christoph)

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Ongoing problem: VCI range mismatch between LS1010 tunnels. The VCI mask command does not work, and this has been reported to Cisco as a bug. The problem seems to be with the tunnelled interfaces. There is no solution in sight.

The network was split into two SVC clouds: A FORE cloud (UK, ES) and a Cisco cloud (DE AT IT CH NO (later this week) IT (awaiting upgrade)) The VP NO-DE was reconfigured and works well.

Co-operation: Nothing new. Waiting for JAMES to get back on our mail. If there is nothing up and running from JAMES by the end of the month, we will put that into the next phase.

A new VP was proposed: CH-AT.

Action 7.2: Christoph to change the JUD to incorporate the VP CH-AT.

During the meeting a mail from Belgacom was received about co-operation on the SVC tests, but with E.164 addressing. The feeling was that the time left is too short to start using a different addressing scheme now. This should be referred back to Belgacom (Christoph).

No further major network changes are required. The current experiments will be finalised and a new experiment started in phase two if required.

3. ATM-ARP (Simon)

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Ramin stepped down as experiment leader as he cannot spare the time to co-ordinate the experiment. As Simon has already done some work, he will take over the leadership of this experiment.

An ARP server is running in AT, but is not used by all participants. All should be using this server.

Action 7.3: Christoph to send FORE ATM-ARP configuration to list for reference.

The proposal is to Subnet the network into multiple LIS, with an ARP server on each. Routing would be done through the Ciscos. Next step.

Action 7.4: Simon will propose a set-up for the experiment using two ARP servers.

This experiment will probably conclude after the tests with the two LISes. It was felt that there are no major problems in this experiment.

4. NHRP (-)

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Olav was not present at the meeting.

AT has set up an NHRP interface on his router, but has seen no activity on this link. Unclear status. Bilateral tests AT-DE were proposed.

5. Addressing (Kevin)

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Kevin got a call from BT. An address translation facility will be implemented, but it is not clear when yet. LS1010 might be able to do address translation in future releases. Do we want to be a Beta test site for this? Nobody volunteered to look into this and this idea was put aside for the time being.

Essentially there is not much progress from the last meeting, as nothing can be tested in practice. The deliverable will list the different addressing schemes in use, and outline proposals on how to solve the problem of two addressing schemes (translation).

6. Net-Man (Zlatica)

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The status is pretty much the same as at the last meeting. A Web-Page project to display the status of the network on the web is ongoing, Simon will take this up. The NM platform can be made accessible to TF-TEN members on request.

Monitoring with OAM cells: End-to-end on VP/VC is planned for this phase, segments of the network will be dealt with in the next phase.

7. CDVT (Victor, Phil)

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17 different tests were carried out in Jan between NL-DE. There was a good co-operation from JAMES. For some cell streams we got up to five measurement points. Analysis is ongoing, and will be presented at the next meeting. So far it looks as if every switch adds to the CDV, so that on the test VP from NL to DE an initial CDV of 3-10 us was measured, and at the receiving side up to 120-130 us (these are maximum cell interarrival times). The whole spectrum of CDVs in between seems to have been present. This seems high values for a CBR service. No definite reasons could be found yet.

More tests are to be carried out, potentially over a different VP, too. This phase deals with the CBR service, in the next phase we could look at the quality wrt CDV of a VBR service.

8. Native ATM Performance (Mauro)

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We had already decided to take this experiment into phase two.

9. VBR (Olivier)

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The problem is the availability of the VBR service within the country. It does not make sense to test the VBR JAMES service if there is no VBR service end-to-end. We have to check where and if we can get end-to-end VBR services.

IT is interested. Currently being upgraded. VBR will not be available before the end of March. -> next phase

DE: VBR supposedly available from 1 Jan, with peak 6M sustainable 2M, UNI 3.1. Robert to check. Same for other countries, we need to find a pair of countries where we can get end-to-end VBR.

Action 7.5: All to check availability of national VBR service.

AT: Waiting for the answer from PTA.

Olivier mentioned that there are national tests going on. These are interesting, but do not fully replace the international tests. This experiment is under danger of running out of time, especially since we will have to apply for a new VBR VP. We need to speed this experiment up.

10. RSVP (-)

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Olav was not at the meeting, so no progress report was available.

11. Security (Paulo)

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Practical tests could start, but FCCN is still waiting for local access.

So far there was not much news. Paulo is still in contact with Martin Moore from BT.

Michael made the general point that experiments should be concluded within this phase where possible. It would be better to limit ourselves in this phase to what we can do now, and to have a section on further study, which we could then take up in the next phase. But there should be a clear cut if possible. Also, we do want to do new experiments in phase two, so we should finish experiments in phase one to have time.

B - JENC

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Michael had sent out a mail on the list about a proposal on what to do within a half session at JENC. He repeated the ideas (long paper with results from each experiment, and three short presentations out of those), and everybody was happy with it. The following people expressed interest in making a short presentation:

- Victor/Phil on the CDVT
- Mauro on the TCP Performance
- Christoph on the SVC tests

Michael will send out a mail to the list, asking who else would be interested in presenting his/her work (esp Olav). We then need to have a vote on which three experiments are going to be presented.

Michael also mentioned that we got a paper into INET about our work.

C - AOB

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We might need a 10M VP for performance further tests (up to Mauro)

Actions from this Conference Call:

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[end]