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Status report of TSGN1 to TSGN plenary meeting #6

1 Introduction

This report summarises the progress of TSGN1 on the work items which have been active in the working group since the previous TSGN plenary meeting. More detailed meeting reports are available on the 3GPP server and they are also provided to this meeting in Tdoc NP-99412 (Kobe) and NP-99413 (Bad Aibling).

TSGN1 has had three meetings since TSGN plenary #5. TSGN1 #8 was held in Kobe, Japan. TSGN1 #8 was held on the 25th –29th of October 1999 and it was hosted by NTT DoCoMo. TSGN1 #9 in Bad Aibling 30th of November to 3rd of December 1999 was hosted by Siemens. Additionally to these regular meetings there has been one ad-hoc meeting on work item GSM – UMTS interworking and MM in UMTS which was hosted by Nokia in Oulu, Finland on the 22nd – 24th of November. The report from this ad-hoc meeting is not provided for TSGN #6 as all output is included in the output of TSGN1 #9.

2 Main achievements

The GPRS work is still ongoing although the number of CRs has gone down from the previous plenary meeting. This reduction of the GPRS related contributions is foreseen as an indication of the increasing stability of the specifications and is expected to continue.

The other pre-R99 work item that has been keeping TSGN1 busy is LCS and T1P1.5 contributions have been reviewed and commented in each meeting.

The R99 work has been busier than ever now that most of the questions and decisions where TSGN1 is dependent on the work of the other working groups have been solved. We got the answers to the last major questions during TSG #5 meeting and progress on most work items can be reported.

Earlier this year TSGN1 gave an estimate of its work for R99 and indicated that a reasonably stable but not necessarily approved stage 1 and stage 2 descriptions are required during May 1999 in order to complete our work by the end of year 1999.

Partly due to the missing decisions from the other groups on which TSGN1 could build stage 3 specifications and partly because of underestimated work amount some of the work items have not been completed by TSGN1.

TSGN1 has analysed the outstanding tasks in its active work items and a more detailed proposal on the future of each work item is presented later in this report.

3 Information to be noted

3.1 Meeting schedule

TSGN1 #8	25.-29. Oct. 1999, Kobe, Japan (DoCoMo)
TSGN1 #9	30. Nov – 3. Dec. 1999, Germany (Siemens)
TSGN1 #10	11.-14. Jan 2000, Japan (NEC)
TSGN1 #11	28. Feb.-2. Mar 2000, (Telia)
TSGN1 #12	22.-26. May 2000 U.S. (T1P1)
TSGN1 #13	11.-15. Sep 2000 U.S. (T1P1)
TSGN1 #14	27. Nov – 1. Dec.2000, (Provisional invitation from Lucent)

The meeting dates for year 2000 have been set as the minimum number of meetings that will be needed to finalise the TSGN1 input to each plenary meeting. This will leave space for ad-hoc meetings that may be needed in between the scheduled meetings.

3.2 Liaison statements already sent

Due to the busy meeting schedule all agreed outgoing liaison statements from TSGN1 have been sent right after each meeting. The LSs from TSGN1 in NP-99414 are provided for information to TSGN plenary #6.

3.3 TSGN1 Work Item list

The work item list has been updated since TSGN #5 and the new list is provided in Tdoc NP-99xxx. TSGN1 is proposing a set of R99 work items for functional freeze in TSGN #6. There is a proposal for each work item under section 4 of this status report.

4 Issues for action/decision by CN plenary

4.1 Liaison statements

All liaison statements from TSGN1 since TSGN #5 have already been sent and the ones in Tdoc NP-99414 are for information for the plenary.

4.2 GSM Maintenance

4.2.1 GPRS

TSGN1 is asking TSGN plenary to endorse the GPRS change requests which are in document NP-99443, and forward them to SMG #31 for approval. These change requests are corrections to the GSM Release 97 standard, with their Release 98 and Release 99 counterparts.

The number of GPRS CRs has gone down significantly from since TSGN #5 but some detailed corrections brought up by the implementation work can still be expected.

4.2.2 LCS

LCS CRs are being drafted by T1P1 LCS group but TSGN1 has reviewed and commented on the contributions several times. The LCS documents are provided in Tdoc NP-99446.

4.2.3 TEI and correction

The CRs in this category are related with work items TEI, PCS1900 Harmonization and SoLSA. Tdoc NP-99452 and NP-99453.

4.3 Release 99 work items

4.3.1 Multicall

The work item is proposed for functional freezing for R99, Tdoc NP-99415.

Sufficient working assumptions exist and TSGN1 has been working on detailed CRs in two meetings. CRs for plenary approval are in tdoc NP-99448.

TSGN1 is still working with the other CRs.

4.3.2 Multimedia

The work item is proposed for functional freezing for R99, Tdoc NP-99416.

All main N1 working assumptions have been established and are defined in the TR. Some N3 work may still impact the working assumptions. The TR in tdoc NP-99458 is provided for the TSGN #6 for information. It includes the feedback from TSGN1 #9 but is not yet agreed in its current version as it is being email reviewed by the working group. CRs are in tdoc NP-99449.

N1 is still working with the CRs.

4.3.3.1 GSM-UMTS interworking and MM for UMTS, 23.009 responsibility

TSGN1 has seen 23.009 changes because of GSM – UMTS handover. The meeting has found it difficult to comment on this issue which is also related with MAP.

Therefore TSGN1 is not confident to be the only reviewer of the proposed changes but would also like to ask for TSGN2 comments before final endorsement.

4.3.3.2 GSM-UMTS interworking and MM for UMTS, WI status

The work item is proposed for functional freezing for R99, Tdoc NP-99417.

An open item list and a task list has been created on this WI, tdoc NP-99411. This document is TSGN1 part of 30.804 and it gives the current status of the WI.

CRs for TSGN #6 approval are in tdoc NP-99445.

4.3.4 MS Classmark split

The work item is proposed for functional freezing for R99, Tdoc NP-99418.

The status of the WI and the working assumptions that have been made can be seen in Technical Report in tdoc NP-99440. The TR is provided for TSGN #6 for approval.

There are still two outstanding questions:

- Is SS screening indicator needed in MS CM2 (N1 to decide)
- How does the network decide whether to use R98 or R99 security parameters? (S3 is working on this)

CRs for TSGN #6 approval are in tdoc NP-99447.

4.3.5 L3 segmentation

The work item is proposed for R2000.

The principle of L3 segmentation was discussed quite a long time ago. The question was asked why not do L2 segmentation? LS to SMG2, R2 and R3 was sent earlier in N1-99A93 to ask the L2 experts opinion on this and we are still waiting for response.

CCBS could prove a bit tricky here as SETUP container in CCBS Recall must be extendable too if the original SETUP message was long enough to require segmentation.

No CRs for TSGN plenary #5 approval.

4.3.6 Turbocharger

This work item is in feasibility study phase. TSGN1 is requesting for more time to study turbocharger as R2000 work item.

The only things that TSGN1 could agree as conclusion on the TR (tdoc NP-99457) at this stage were:

- Weighing the advantages versus disadvantages is very difficult and no firm conclusion can be made on the technical feasibility at this stage.
- Turbocharger is not feasible for R99 for lack of time.
- Not a R99 WI, not possible to agree to have the WI in R2000 and not possible to agree not to have it in R2000.

4.3.7 EDGE

TSGN1 part of EDGE work is complete.

EDGE CRs are provided for approval in tdoc NP-99442.

4.3.8 Security

Security is a work item which can be easily partitioned in smaller tasks. In TSGN1 some of these tasks have been treated under security work item while some others have been included in other work items such as GSM-UMTS interworking and MM for UMTS.

TSGN1 has not produced a document to propose security work item for R99 as the work item is S3 originated. But TSGN1 see that all security items which have now been covered and the ones which will be covered when the other R99 work items are completed should be treated as part of R99. The remaining security issues are are proposed for R2000.

Open issue list exists in TR 30.810.

Several open issues, open item list in Tdoc N1-99E70 (30.810). It is possible to partition this WI and N1 proposal is to include what we have got now plus what will be completed due to other R99 WIs and include that to R99. The rest of the security issues should then be left to R00.

Several open issues, separate open item list document in E70 (30.810)

Security related CRs for approval are in tdoc NP-99451.

4.3.9 Out-of-Band Transcoder Control (OoTC)

The work item is proposed for functional freezing for R99, Tdoc NP-99419.

Open issues:

- At which level should the supported codecs be indicated? CC or RR?
- At which level should the downlink codec indication be given?
- Should the new speech codecs be added to existing BC IE or do we want to introduce a new IE.
- The criteria for the MS to send GSM and UMTS specific codec information?

4.3.10 QoS

TSGN1 sees QoS as R99 work item but has made no proposal for functional freezing as this WI has been initiated in TSGS.

The main CRs have been agreed by TSGN1 but detailed open items still do exist:

- the length of TFT IE
- QoS default values should be defined for unused code points rather than reserved which blocks future evolution.
- QoS mapping between R98 and R99 is not completed in TSGS2 and TSGN1 has had no chance to review the result

TSGN #6 is asked to approve the QoS CRs in tdoc NP-99450. Additionally to these CRs QoS issues are also covered in SM CR categorised under GSM-UMTS interworking and MM for UMTS.

4.3.11 PAGING RESPONSE as MM message

TSGN1 #8 proposed moving PAGING RESPONSE from 04.18 to 24.008 to make this message having significance for both AS and NAS visible also to UMTS specifications. A liaison was sent to SMG2 proposing this but SMG2 objected the proposal.

The discussion continued in TSGN1 #9 and it was decided to keep PAGING RESPONSE definition in GSM 04.18 and making a reference to this from 24.008. Consequently 24.008 CR 048r1 in N1-99D41 which is the same as NP-99459 needs to be rejected.

This creates an administrative problem for non-ETSI 3GPP members as ETSI specifications (not just published standards but the latest reference versions!) are not visible to them. This matter should be solved with no delay and TSGN1 is asking for TSGN #6 to raise this issue to the TSG-SA #6.

4.3.12 TEI

Miscellaneous, mainly CC related TEI CRs for approval are in tdoc NP-99441

4.3.13 Splitting 23.022 to 03.22 and 23.122

Earlier this year we had the understanding that there will be no 03.22 for R99 but now more GSM only changes have already been agreed in SMG30bis for to WI Compact EDGE. Due to this and also in order to partition the specification to AS and NAS parts it must be split to GSM RAN and CN parts. A proposal has been made by drafting group with the principle that GSM cell selection is defined in GSM 03.22 and CN related issues like PLMN selection and location registration are in 23.122. If the proposal can be agreed, then 23.022 should be deleted as 23.122 replaces it.

The proposal consists of a CR on 03.22 in tdoc NP-99454 and proposed new specification 23.122 in NP-99455.

TSGN #6 is asked to approve 23.122 while 03.22 CR is for information as this should become the property of SMG2.

5. Thanks!

I thank the companies hosting TSGN1 meetings during year 1999. I can also now inform you that we have got a volunteer host for every meeting we have scheduled for year 2000.

I also need to thank the delegates for their contributions and constructive comments on the others' documents.

The administrative and procedural issues are getting also better now that TSGN1 has had a permanent secretary for a while. So thanks to MCC and particularly to Ban herself are also more than appropriate.