

**3GPP TSGN  
Tdoc 3GPP NP-99020**

**2.-4.March 1999, Fort Lauderdale, U.S.A**

**Date: 24 February 1999**

**Source: TSGN WG1 Convenor**

**Title: Proposed guidelines for 3GPP TSG-CN-WG1 Work**

## **1 Introduction**

This document describes the convenor's proposed guidelines for 3GPP TSG-CN WG1 work. It is intended to serve as the basis for discussion in the Work Item ad-hoc meeting and also email discussion outside the meetings. The aim is to elaborate the document until it can be agreed by TSGN WG1 and then propose it to TSGN for approval.

## **2 Main objectives of CN-WG1**

To produce specifications for a 3<sup>rd</sup> Generation Core Network (3G CN) which is an evolution from the GSM Core Network;

To use as Baseline Documents GSM specifications for Release '98 as has been defined in Tdoc SMG3A-99179 (and other documents, if available);

To produce an interim release 0.5 to serve as the starting point for Release 99 standardisation work;

To implement the work items allocated to (TSGN) WG1 in the specifications under its responsibility

To produce the first full set of 3G CN specifications by the end of 1999;

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**3 Terms of Reference and Scope of CN-WG1**

**3.1 Terms of reference**

The Terms of Reference for TSG-N were agreed in the first TSG-N meeting in December 1998; they are shown in Annex A. The ToR which are appropriate for CN-WG1 are shown in ***bold italic*** characters. The main changes to this original ToR are the addition of SMS and SMSCB protocol responsibility and development of network management related work items under the guidance of TSGS WG5.

**3.2 Scope**

The scope of CN-WG1 covers the following work areas, most of which are inherited from SMG3 WP'A':

- Maintenance of the following protocols:
  - Mobility Management (both circuit switched and packet)
  - Call Control
  - Session Management
  - SMS and SMSCB Radio protocols
- Development and maintenance of MM part of the MS idle mode functionality
- Development and maintenance of the CN protocol part of the lu interface.
- Maintenance of the SGSN-VLR (Gs) interface
- Maintenance of Mobile Radio L3 requirements (evolution of GSM 04.07)
- Maintenance of Mobile Radio L3 stage 3 (evolution of GSM 04.08)
- Maintenance of Point-to-point Short Message Service (SMS) on the Radio interface (evolution of GSM 04.11)

In addition, WG1 is expected to inherit the maintenance of the older versions of the documents placed under its responsibility.

**4 Internal structure**

Creation of sub-working groups inside TSGN WG1 is not proposed at this stage. This does not prohibit organising ad-hoc meetings on any identified topic.

**5 Co-operation with other groups**

Possible co-operation is foreseen with the following groups:

TSGN WG2: Basic Call handling stage 2, SS

TSGR WG2: lu IF

TSGT WG2: ME testing issues

TSGT WG3: UIM IF

TSGS WG1: Service requirements

TSGS WG2: Architecture

TSGS WG3: Security related issues

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TSGS WG5: Network Management

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### **6 Frequency of meetings**

The dates for the meetings were agreed in the first SMG3 WPA / 3GPP TSGN WG1 joint meeting. All previously agreed SMG3 WPA meeting dates were confirmed and new dates meetings were scheduled too.

The meeting calendar for 1999:

25.-27. Jan. 1999	TSGN WG1 / SMG3 WPA meeting
18.-19. Feb. 1999	TSGN WG1 Work Item drafting
22.-25. Mar. 1999	TSGN WG1 / SMG3 WPA meeting, SMG9 invited for SIM issues
21.-23. Apr. 1999	TSGN WG1 / SMG3 WPA meeting
10.-12. May 1999	TSGN WG1 / SMG3 WPA meeting
16.-20. Aug. 1999	TSGN WG1 / SMG3 WPA meeting
21.-23. Sep. 1999	TSGN WG1 / SMG3 WPA meeting
23.-25. Nov. 1999	TSGN WG1 / SMG3 WPA meeting
14.-16. Dec. 1999	TSGN WG1 / SMG3 WPA meeting

By default all these meetings are joint UMTS and GSM meetings. The scope of the meeting and the scheduling of the items will always be indicated on the agenda before the meeting.

At the time of writing the number of meetings allocated for year 1999 exceeds the number of hosts for those meetings. The delegations are encouraged to check whether they would be able to host a meeting. The hosts of the future meetings will be drawn from members of all participating organisations with no discrimination based on location.

Additional ad-hoc meetings on issues requiring a meeting of their own may be agreed as necessary.

Some CN-WG1 meetings will be held jointly with CN-WG2.

Some CN-WG1 meetings will be held in conjunction with TSG-N meetings.

### **7 Submission of contributions**

All contributions should be provided for the secretary of the meeting in order to be uploaded to the server under DocBox directory which will be created for each meeting.

The contributions shall indicate the Tdoc and CR number if relevant. These are allocated by the secretary of the meeting.

If other contact person has been indicated by the host for providing documents for copying, then it is the contributors' responsibility to deliver all their documents for copying before the meeting.

It is not forbidden for the delegations to bring their input documents directly to the meeting but a Tdoc number and CR number if required must be allocated before a document can be discussed. The discussion on such late contributions may be delayed until the next meeting if they can not be scheduled for the meeting due to lack of time. The host can not be expected to provide copies of the documents which are submitted after the deadline. The originator must provide sufficient number of copies.

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Submission of the input documents (in electronic form) before the meeting for the other delegations to review is encouraged.

The contributor of any document must provide an electronic copy of the document.

The paperless office approach will be studied and adopted if it becomes a practical alternative.

To reflect the fact that delegates need time to review documents before they are discussed, in order to have an informed discussion, those documents which have been received after the deadline will be treated first within a given agenda item.

**8 Appointment of editors**

The editor(s) of documents which are affected by a given work item will be appointed as part of the process of identifying the documents.

**9 Conclusion**

This proposal is intended as the basis of discussion on the Terms of Reference for TSGN WG1 both in TSGN and TSGN WG1.

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**Annex A        TERMS OF REFERENCE for Core Network Technical  
Specification Group**

The TSG Core Network (TSG-N) is responsible for the specifications of the Core network part of systems based on 3GPP specifications. Specifically it has a responsibility for:

- ***User Equipment - Core network layer 3 radio protocols (Call Control, Session Management, Mobility Management);***
- Core Network internal interfaces for Call Associated and Non Call Associated signalling;
- Interconnection of the Core Network with external networks;
- ***Management of work items placed under its responsibility.***

More specifically, TSG-N will address the following areas of work:

- ***Mobility management, call connection control and session management signalling between the user equipment and the core network;***
- Core network signalling between the core network nodes. The signalling supports functionality such as user information, subscription information and control of network services;
- ***Interworking with 2nd generation networks (e.g. handover to / from GSM);***
- Definition of interworking functions between the core network and external networks;
- ***Packet related matters such as mapping of QoS [e.g. transparency for IP domain applications, general for bearer types, special for optimized applications such as Voice over IP].***
- ***Core network aspects of the lu interface;***
- ***Core network O&M requirements.***