

**3GPP TSG (Common meeting)
Sophia Antipolis 7-8/12/98**

Tdoc TSG#1(98)071r1

Doc For	TSG SA	TSG CN	TSG RAN	TSG T
Decision		X		
Discussion				
Information	X		X	X

Source: TSG N Convenor

Subject: Report of TSG N meeting

Agenda item: 20

Report of first meeting of TSG Core Networks

Convenor: Steven Hayes

Meeting Results (1)

- CN ToR approved with minor changes (Annex A)
- CN Workplan approved with minor changes (Annex B)
- 3GPP Release '99 specifications use GSM'98 as baseline.
- Next full TSG-N meeting, March 1-5, 1998.
-

Working Groups

- **WG1 - MM/CC/SM (Iu)**
 - Convenor: Hanna Hietalahti (Nokia)
 - Joint with SMG3 WPA
- **WG2 - CAMEL/MAP**
 - Co-Convenors: Masami Yabusaki (DoCoMo),
Ian Park (Vodafone)
 - Joint with SMG3 WPC
- **WG3 - Interworking w External Networks**
 - Co-Convenors: Oscar Lopez Torres _ Telemobile
Norbert Klehn - Siemens

Working Groups (cont.)

- Initial WG meetings start Jan 26 in Sophia Antipoles
- Specific agenda and duration to be discussed and determined by convenors electronically
- Each WG is physically one group and logically two groups.
- Mailing Lists created for each WG:
 - (e.g., 3GPP_TSG_CN-WG_x@LIST.3GPP.ORG)

Issues

- Relationship and dependencies with TSG-S needs further discussion
- Appointment of secretaries of WGs
- Duplication of mailing lists between SMG3 and TSG-N

TERMS OF REFERENCE

CORE NETWORK Technical Specification Group

Background

The third generation systems based on 3GPP specifications will rely on evolutions from the GSM network standards. This approach will ensure that systems based on 3GPP specifications will be capable of rapid development and deployment of competitive service offerings while still enabling global roaming.

Terms of reference

The technical specification development work within 3GPP is accomplished by Technical Specification Groups (TSGs) according to the principles and rules contained in the Project reference documentation (Partnership Project Description, Partnership Project Agreement, Partnership Project Working Procedures).

In particular the TSGs report to the Project coordination Group (PCG), and may organize their work in Working Groups and liaise with other groups as appropriate

Each TSG has the responsibility to develop, approve and maintain the specifications within its terms of reference.

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 signaling
- 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.

Glossary of terms

3GPP

Terms of reference
TSG N
Version : 2a
Date :3 Dec 1998

CN	Core Network
IP	Internet Protocol
O&M	Operations and Maintenance
QoS	Quality of Service
RR	Radio Resource
UE	User Equipment
USIM	UMTS Subscriber Interface Module
UTRAN	Universal Terrestrial Radio Access Network
VHE	Virtual Home Environment

Core Network TSG

Objectives

The UMTS core network shall be based on an evolution of the GSM core network for both circuit and packet switched traffic.

The first release of specifications shall be finalized at the end of 1999.

Work plan

The **work plan** for the Core Network TSG shall include:

- Evolving GSM MM/CC to UMTS *assigned to WG1*
- Evolving GSM MAP/CAMEL to UMTS core network signalling ensuring compatibility with GSM networks *assigned to WG2*
- Evolving GSM interworking functions to UMTS interworking to external networks *assigned to WG3*
- Evolving GPRS layer 3 protocols (SM, GMM) to UMTS packet services *assigned to WGs 1, 2 & 3*
- Core network O&M requirements *no assignment yet*
- Support of Handover to/from GSM shall be defined. *assigned to WGs 1 & 2*