3GPP/PCG#9 Meeting
St Paul de Vence, France
3 October 2002

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30 September 2002
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Source: **Secretary**

Title: **Status and Content of Release 5**

Agenda item: 5.1

Document for:

Decision	
Discussion	
Information	**X**

1 Introduction

This document provides the complete and final list of the features contained within Release 5, as decided at SA#16 in June 2002, with the final closing of open points decided at SA#17 in September 2002.

At the end of this document is included a Gantt Chart showing the progress made in completing Release 5 and the expectations for the completion of the outstanding work.

2 Content of Release 5

Evolutions of the Transport in the UTRAN

Consists of "IP Transport in the UTRAN".

Evolution of the transport for CN

Consists of a Feasibility Study on SUA.

High Speed Downlink Packet Access (HSDPA)

Improvements of Radio Interface

Consists of:
–   Enhancement on the DSCH hard split mode
–   BS Classification for 1.28 Mcps TDD option.
–   TDD BS classification.
–   UMTS1800/1900

RAN improvements

Consists of:
-      RL Timing Adjustment
-      Separation of resource reservation and radio link activation
-      Node B synchronisation for 1.28 Mcps TDD
-      Iur Neighbouring cell reporting Efficiency Optimisation (R3)
-      Iur Common Transport Channel Efficiency Optimisation
-      Re-arrangement of Iub Transport Bearers

- RAB support enhancements
- Support of SSDT in UTRAN

- Beamforming requirements for UE IP-based Multimedia Services (IMS)

Consists of:
- Transport Protocol for PS Conversational Multimedia applications
- Access Security for IMS
- Integrity protection
- Security of SIP signalling between network nodes
- User authentication
- Lawful interception.
- SIP Compression
- Charging
- IMS to CS interworking (basic aspects, other ones moved to Rel6)
- CAMEL in IMS

- Header compression in UTRAN and GERAN (will re-use RoHC)Extended Transparent End-to-End Packet Switched Mobile Streaming Applications ("Extended Streaming")

Global Text Telephony

OSA improvements

Consists of:
- OSA APIs for Multi-media
- Retrieval of Terminal Capabilities
- Framework
- Generic User Interaction
- Charging
- Policy Management
- Presence & Availability Management
- Call Control mapping to ISC
- WSDL APIs for HTTP/SOAP transport

CAMEL phase 4

Consists of:
- Support of CAMEL by the IMS (see also IMS)
- Interactions with Optimal Routing
- CAMEL control over MT SMS
- Provision of location information of called subscriber
- Inclusion of ODB data in the CSE-HLR interface
- Inclusion of flexible tone injection
- Call Party Handling
- Notification of GPRS mobility management to CSE
- Location information during an ongoing call
- GPRS Any Time Interrogation
- Mid call procedure for MO and MT calls
- Transfer of the IMEI (with software version) to the CSE

-   Handling of partial implementation of CAMEL4 (previously known as "CAMEL4 Functional split into subsets")MExE Enhancements Rel-5

Consists of:
-        ECMA "Common Language Infrastructure" support as Classmark 4
-        General enhancements and improvements
-        Security enhancements

WB-AMR (Wideband Adaptative Multirate Codec)

Does not include WB Conferencing and WB Voice Group calls

Terminal Interfaces

Consists of "Terminal Local Model enhancements"

(U)SIM toolkit enhancements

Consists of USAT Interpreter

LCS enhancements 1

Consists of:
-        Location Services for GERAN in A/Gb Mode
-        LCS for GERAN in Iu Mode
-        Specification for the Le Interface (GMLC - external LCS Client)
-        User privacy (Service type privacy, Requestor, Codeword)

Charging and OAM&P

User Equipment Management - Feasibility Study

Intra Domain Connection of RAN Nodes to Multiple CN Nodes (Iu-Flex)

GERAN enhancements

Consists of:
-        GERAN/UTRAN interface evolution 1 (evolution of Iu PS)
-        GERAN/UTRAN interface evolution 2 (evolution of Iu CS)
-        GERAN Inter BSC NACC improvements over the Gb Interface
-        8PSK AMR HR
-        GERAN enhancements for streaming services 1 & 2
-        Intra Domain Connection of RAN Nodes to Multiple CN Nodes

-        Location Services (LCS) for GERAN in A/Gb Mode
-        Real Time QoS for packet services including VoIP
-        GERAN improvement: Low chip rate TDD option
-        GERAN improvement: Gb over IP
-        Enhanced Power Control
-        Alignment of 3G functional split and Iu

-            Evolution of the transport on the A interface
-            GERAN support for IMS
-            Multiple TBF in A/Gb mode

End-to-End QoS

Messaging Enhancements

Consists of:
-            Multimedia Messaging Service enhancements, which includes:
  - Address resolution and Mobile Number Portability
  - MM7 (MMS Relay/Server – MMS VAS Applications)
  - Support of persistent storage in MMS
  - Enhanced interworking issues
-            Enhanced Messaging Service, which includes:
  - use of extended objects, with compression
  - bitmap graphics, including colour
  - hyperlink IE
  - vector based graphics format
  - monophonic and polyphonic sound formats

Service Change and UDI Fallback (SCUDIF)
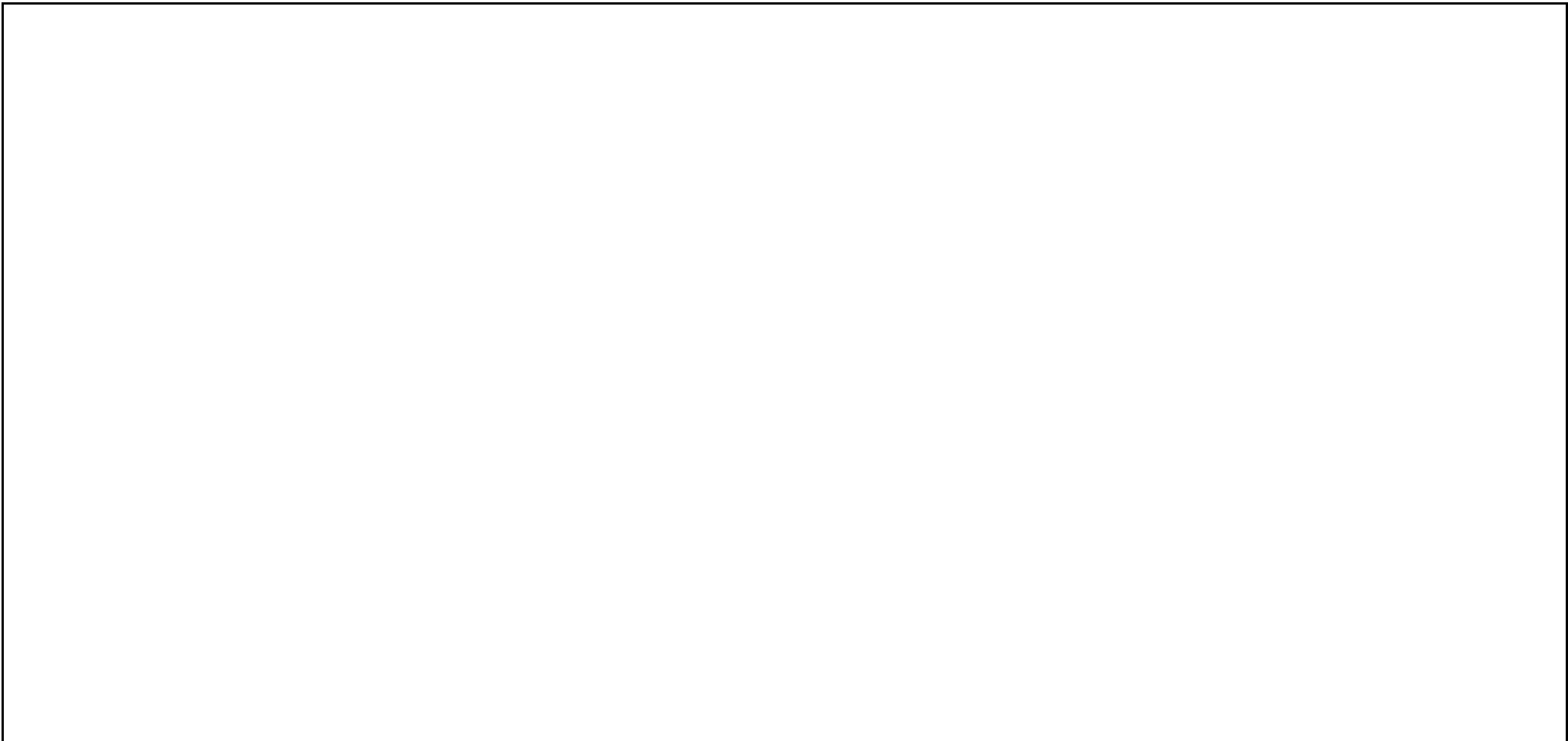
Security Enhancements

Consists of "Network domain security over IP".

UTRAN Sharing in Connected Mode

Previously known as "Shared Network support in connected Mode".

ID	Unique_II	Name	Resource Na
1	0	**----- Rel-5 features listed below -----**	
2	625	**IP transport in the UTRAN**	WG RAN3
3	2455	**FS on Usage of SUA**	WG CN4
4	2476	**High Speed Downlink Packet Access**	WG RAN2
9	501216	**Rel-5 Improvements of Radio Interface**	TSG RAN
22	500009	**Rel-5 RAN improvements**	TSG RAN
39	23004	**UTRAN sharing in connected Mode**	WG RAN3
40	1273	**Provisioning of IP-based multimedia services**	WG SA1
118	34001	**Extended Transparent End-to-End PS Streaming Service**	WG SA4
122	501637	**Rel-5 OSA enhancements**	WG SA1
145	1638	**CAMEL phase 4**	WG SA1
159	2464	**Rel-5 MExE enhancements**	WG T2
161	1625	**Wideband Telephony Service - AMR**	WG SA4
197	2573	**Terminal local model enhancements**	WG T2
198	1536	**Rel-5 Location Services enhancements**	WG SA2
234	501571	**Rel-5 Security enhancements**	WG SA3
243	2243	**Intra Domain Connection of RAN Nodes to Multiple CN Node**	WG SA2
254	2320	**GERAN improvements 3 (new transport layer on interface A)**	TSG GERAN
258	501142	**Rel-5 Charging and OAM&P**	WG SA5
263	2392	**GERAN enhancements for streaming services 1 (RLC enhar**	TSG GERAN
266	2396	**GERAN enhancements for streaming services 2 (usage of E**	TSG GERAN
272	2412	**GERAN/UTRAN interface evolution 1 (evolution of Iu PS)**	N;WG RAN3
276	2416	**GERAN/UTRAN interface evolution 2 (evolution of Iu CS)**	N;WG RAN3
280	2556	**End to End QoS for PS Domain including IMS**	WG SA2
284	2569	**Messaging enhancements Rel-5**	WG T2
293	50001	**GERAN Inter BSC NACC improvements over the Gb Interfac**	TSG GERAN
300	50033	**Enhanced Power Control**	TSG GERAN
304	50037	**8PSK AMR HR**	TSG GERAN

ID	Unique_II	Name	Resource Na	Qtr 1, 2001 Jan Feb Mar	Qtr 2, 2001 Apr May Jun	Qtr 3, 2001 Jul Aug Sep	Qtr 4, 2001 Oct Nov Dec	Qtr 1, 2002 Jan Feb Mar	Qtr 2, 2002 Apr May Jun	Qtr 3, 2002 Jul Aug Sep
316	13000	**Service Change and UDI Fallback**	WG CN3							
317	**501800**	**Rel-5 (U)SIM toolkit enhancements**	**WG T3**							
329	30001	**small Technical Enhancements and Improvements for Rel5**	Generic							
330	31013	**Technical Report on UE Functionality Split**	WG SA1							
331	**2520**	**User Equipment Management**	**WG SA5**							
333	**50101**	**Flow control supporting an MS with multiple data flows with**	**TSG GERAN**							
339	**50058**	**Multiple TBF in A/Gb mode**	**TSG GERAN**							
346	**2345**	**Alignment of 3G functional split and Iu**	**TSG GERAN**							
404	**2330**	**GERAN support for IMS**	**TSG GERAN**							

Project: 3GPP_Work Plan
Date: Wed 02/10/02

Critical	▬▬▬	Baseline Milestone	◆	Rolled Up Split	▬▬▬
Critical Split	▬▬▬	Milestone	◆	Rolled Up Task Progress	▬▬▬
Critical Progress	▬▬▬	Summary Progress	▬▬▬	Rolled Up Baseline	▬▬▬
Task	▬▬▬	Summary	◆▬▬◆	Rolled Up Baseline Milestone	◇
Split	▬▬▬	Rolled Up Critical	▬▬▬	Rolled Up Milestone	◇
Task Progress	▬▬▬	Rolled Up Critical Split	▬▬▬	External Tasks	▬▬▬
Baseline	▬▬▬	Rolled Up Critical Progress	▬▬▬	Project Summary	▲▬▬▲
Baseline Split	▬▬▬	Rolled Up Task	▬▬▬		