

Source: Secretary

Title: Draft Contents of release 7

Agenda item: 5.1

Document for:

Decision	
Discussion	
Information	X

1 Introduction

This document provides the present status of the definition of the content of Release 7.

Last TSG SA (SA#29) proposes to consider stage 1 of Release 7 features' as stable, with some exceptions to be clarified by TSG SA#30 (Dec 05). The intention is then to have Stage 2 completed by March 2006 and Stage 3 by September 2006.

The specification of the features entirely supported within RAN and GERAN should be aligned to this calendar.

2 Release 7 features

7.68 Mcps TDD

3.84 Mcps TDD Enhanced Uplink

Multiple Input Multiple Output antennas (MIMO)

Release 7 RAN improvements: RAB support enhancement

Optimisation of DL channelisation code utilisation for 1.28 Mcps TDD

Delay optimisation for procedures applicable to CS and PS Connections

Rel-7 Improvements of the Radio Interface

It consists of:

- UMTS2600
- UMTS900
- UMTS2600 TDD Option
- UMTS1700
- UE Antenna Performance Evaluation Method and Requirements

Rel-7 Improvements of the Radio Interface

Improved support of IMS real time services using HSDPA/EDCH

Enhanced Performance Requirements based on Receive Diversity & LMMSE Equalizer Receiver for HSDPA UE

Improved support of IMS real time services using HSDPA/EDCH

- Enhancements for VoIP studied in RAN1
- RAB linking studied in RAN3

Enhanced Performance Requirements based on Receive Diversity & LMMSE Equalizer Receiver for HSDPA UE**Rel-7 IMS aspects**

SA2 proposes not to create “IMS Phase 3” yet, therefore all IMS phase 2 functionalities not completed on time or new IMS functionalities are so far reported as stand-alone features in Release 7.

- IMS Stage-3 IETF Protocol Alignment:
- Mp (MRFC - MRFP) interface protocol definitions
- IMS Support of Conferencing and Messaging Group Management:

Voice call continuity between CS and IMS (incl. I-WLAN)**Combinational Services****CS Video and Voice Service Improvements - other than Redial****PS domain and IMS impacts for supporting IMS Emergency calls****System enhancements for Fixed Broadband access to IMS (FBI)****LCS enhancements 3****Contains:**

- LCS for 3GPP Interworking WLAN
- Velocity
- LCS Enhancements Related to Location-Based Services
- LCS/LBS Enhancements in GERAN
- Inclusion of Uplink TDOA Positioning method in the UTRAN specifications

Advanced Global Navigation Satellite System (A-GNSS) concept**Enhancements of VGCS in public networks for communication of public authority officials****Improvements of VGCS in public networks for parallel use of services****CAMEL Rel-7**

It consists of:

- Trunk Originated CAMEL Triggering

Generic User Profile phase 2**Rel-7 OSA Service Broker****OAM&P Rel-7**

in full: Operation, Administration, Maintenance and Provisioning

It consists of:

- Performance Management
- Network Infrastructure Management
- Trace Management

GERAN Rel-7

It consists of:

- Support of Conversational Services in A/Gb mode via the PS domain
- MS Antenna Performance Evaluation Method and Requirements
- LCS/LBS Enhancements (see LCS3)
- Lower 700 MHz Inclusion in the GERAN Specifications (698 – 746 MHz band and 698 – 746 MHz band)
- Addition of new frequency band to GSM (T-GSM810)
- Handover of dedicated and shared resources while in dual transfer mode

Rel-7 Codec aspects

It consists of:

- Performance Characterization of VoIMS over HSDPA/EUL channels
- Dynamic and interactive multimedia scenes
- Video Codec for PSS, MMS, PS Conversational and CS Multimedia (3G-324M), Performance requirements
- 3G-324M Video Telephony Call Setup Times Improvements

MBMS Enhancements**Evolution of Policy Control and Charging**

Lawful Interception in the 3GPP Rel-7 architecture

Personal Network (PN) and Personal Area Network (PAN)

Multimedia Telephony Capabilities for IMS

Transferring of emergency Call data (eCall)

USSD message delivery and transfer to USIM

WLAN-UMTS Interworking Phase 2

Access Class Barring and Overload Protection

Identification of Communication Services in IMS

VoIMS bearer related enhancements

Access Security Enhancements

Liberty Alliance and 3GPP Security Interworking

Trust Requirements for Open Platforms in 3GPP

Development of UEA2 and UIA2

DIAMETER on the PDG Wi interface

DIAMETER on the GGSN Gi interface

WIs approved at TSG#29 (Release 7)

Several new WIs were presented at TSG#29. They are anticipated to belong to Release 7. This will be confirmed later on according to the progress of work on these items. Their classification as Features, Building Blocks or Work Tasks still has to be performed. These WIs are:

- FS on Machine to Machine communications (SA1)
- FS on Customised Ring Back Tone (CRBT) Requirements (SA1)
- FS on public warning system (SA1)
- Supporting Globally Routable User Agent URIs (GRUUs) in IMS (SA2)
- FS on IMS enhancements and optimisations for the support of mass market multimedia telephony
- WLAN Interworking – Private Network access from WLAN 3GPP IP Access in (SA2)
- HTTPS connection between a UICC and a NAF (SA3)
- 2G GBA: 2G SIM usage in 3GPP GAA framework (SA3)
- Generic Authentication Architecture usage extensions and optimisations (SA3)
- Network Domain Security; SS7 security Gateway (NDS/TCAPsec) (SA3)
- Optimizations for Multimedia Telephony over IMS (SA4)
- Characterisation of Adaptive Jitter Management Performance for VoIP Services " (might become SI), BB under the above Feature (SA4)
- End-to-End Multimedia Services Performance Metrics" (might become SI) (SA4)
- Private Network access from WLAN 3GPP IP Access(CT1)

- Multimedia interworking between IM CN subsystem and circuit switched networks (CT3)
- Multimedia Resource Function Controller (MRFC) - Multimedia Resource Function Processor (MRFP) Mp Interface (CT4)
- Study of a Short Message Service Centre for MT SMS (CT4)
- Continuous connectivity for packet data users (RAN)
- UMTS 2.6 GHz DL External (request from CEPT). PCG asked to decide on a GO/NO GO option for TSG RAN (RAN)
- Improved Performance Requirements for non-HSDPA channels based on Enhanced Receiver, Type 1 (Rx Diversity) (RAN)

Feasibility Studies:

The Feasibility Studies conducted in the Rel-7 time frame are:

- Multi system mobile stations
- GERAN's Enhanced support of Video Telephony
- Future GERAN Evolution
- Study item on the performance evaluation of the UE behaviour in high speed trains with speeds up to 350 kmph (R4)
- Continuous connectivity for packet data users
- SI UTRA FDD Tower Mounted Amplifier (TMA)
- System Architecture Evolution (FS)
- RAN's Long Term Evolution (LTE) / FS on Evolved UTRA and UTRAN (LTE)
- All-IP Network
- Mobility between heterogeneous Access Networks
- FS on IMS with real time services deployments
- FS on IMS services using CS bearers
- Support of SMS and MMS over IP networks
- Enhancement of E2E QoS
- Selective Disabling of UE Capabilities
- FS on Multimedia Priority Service Rel-7

ID	Jnique_IC	Name	Qtr 1, 2005			Qtr 3, 2005			Qtr 1, 2006			Qtr 3, 2006		
			Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov
1	2044	VERSION 2005 September 15th												
2	1462	"CTRL + a" to display all the 3GPP fields												
3	2058	Content of Release 7, not frozen												
4	0													
5	0	Rel-7 Features listed below												
6	2468	Multiple Input Multiple Output antennas (MIMO)												
11	32045	PS domain and IMS impacts for supporting IMS Emergency calls												
20	32064	Access Class Barring and Overload Protection												
26	31048	USSD message delivery and transfer to USIM												
29	32079	Location Services enhancements Rel-7												
30	32093	Global Stage 2 for LCS3												
31	31052	LCS for 3GPP Interworking WLAN												
33	20030	UE positioning Rel-7												
36	50558	LCS Enhancements Related to Location-Based Services												
37	31051	Advanced Global Navigation Satellite System (A-GNSS) concept												
40	31063	Combinational Services												
45	31067	All-IP Network (AIPN)												
48	32073	Enhancement of E2E QoS												
49	32074	System enhancements for fixed broadband access to IMS												
53	33025	Access Security Enhancements												
54	14012	Mp (MRFC - MRFP) interface												
55	11052	IMS Stage 3 IETF Protocol alignment												
56	20028	Rel-7 Improvements of the Radio Interface												
57	20021	UMTS 2.6 GHz												
58	20025	UMTS 2.6 GHz TDD												
59	20027	UMTS 900 MHz												
60	20043	UMTS 1700 MHz												
61	20024	UE Antenna Performance Evaluation Method and Requirements												

ID	Jnique_IC	Name	Qtr 1, 2005			Qtr 3, 2005			Qtr 1, 2006			Qtr 3, 2006			
			Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	
62	20045	Improved Performance Requirements for HSDPA UE based on Rx Diversity (type 1) & LMMSE ec													
			◆ 15/03												
63	20014	7.68Mcps TDD option	—————▶												
69	20029	Rel-7 RAN improvements	—————▶												
70	20026	Optimisation of channelisation code utilisation for 1.28 Mcps TDD	—————▶												
71	20031	Delay optimisation for procedures applicable to CS and PS Connections	—————▶												
72	20033	UE Performance Requirements for MBMS (TDD)	—————▶												
73	20035	3.84 Mcps TDD Enhanced Uplink	—————▶												
79	32081	Support of SMS and MMS over generic 3GPP IP access	—————▶												
82	32082	Evolution of Policy Control and Charging	—————▶												
85	34030	Video Codec Performance Requirements	—————▶												
86	13023	DIAMETER on the GGSN Gi interface	—————▶												
87	31065	CAMEL Trunk Triggers	—————▶												
90	50118	MS Antenna Performance Evaluation Method and Requirements	—————▶												
91	50119	Lower 700 MHz Inclusion in the GERAN Specifications	—————▶												
94	11045	Enhancements of VGCS for public authority officials	—————▶												
98	11055	Improvements of VGCS for parallel use of services	—————▶												
102	31071	OSA Rel-7	—————▶												
105	34032	Dynamic and interactive multimedia scenes	—————▶												
106	33022	Liberty Alliance and 3GPP Security Interworking	—————▶												
107	31062	WLAN-UMTS Interworking Phase 2	—————▶												
110	32091	Voice call continuity between CS and IMS (incl. I-WLAN)	—————▶												
113	13022	DIAMETER on the PDG Wi interface	—————▶												
114	35041	OAM&P	—————▶												
140	33023	Trust Requirements for Open Platforms in 3GPP	—————▶												
141	33024	Development of UEA2 and UIA2	—————▶												
142	33026	Lawful Interception in the 3GPP Rel-7 architecture	—————▶												
143	50564	Support of Conversational Services in A/Gb mode via the PS domain	—————▶												
147	50565	Addition of new frequency band to GSM (T-GSM810)	—————▶												

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			Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov
151	50567	Handover of dedicated and shared resources while in dual transfer m												
154	50568	Future GERAN Evolution												
155	34034	3G-324M Video Telephony Call Setup Times Improvements												
156	31077	Personal Network (PN) and Personal Area Network (PAN)												
157	31078	Multimedia Telephony Capabilities for IMS												
158	31079	Transferring of emergency Call data												
159	31080	MBMS Enhancements												
160	32097	Identification of Communication Services in IMS												
163	32099	VoIMS bearer related enhancements												
167	0	Rel-7 Feasibility Studies listed below												
168	31050	Behaviour of Multi system UEs												
169	31054	FS on IMS with real time services deployment												
173	32085	3GPP System Architecture Evolution												
176	20034	FS on Performance Evaluation of the UE behaviour in high speed tra												
177	50552	FS of enhanced support of Video Telephony												
178	20023	FS on Evolved UTRA and UTRAN												
179	31075	Study on Videotelephony teleservice												
181	31073	Study of Network Selection Principles												
183	32092	FS on Enhancements to support QoS provisioning over 3GPP/WLAN I												
184	20044	FS on Continuous connectivity for packet data users												
185	20041	FS on UTRA Tower Mounted Amplifier (FDD)												
186	31041	Multimedia Priority Service												
187	32029	Deleted: FS on applicability of GALILEO for LCS												
190	32005	Deleted - IMS Local services												
193	32078	Deleted - IMS Phase 3												
194	701216	Deleted - Improvements of Radio Interface												
195	14018	TBC: Generic User Profile Phase 2												
197	31053	Selective Disabling of UE Capabilities												



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Critical		Milestone		Rolled Up Baseline	
Critical Split		Summary Progress		Rolled Up Baseline Milestone	
Critical Progress		Summary		Rolled Up Milestone	
Task		Rolled Up Critical		External Tasks	
Split		Rolled Up Critical Split		Project Summary	
Task Progress		Rolled Up Critical Progress		External Milestone	
Baseline		Rolled Up Task		Deadline	
Baseline Split		Rolled Up Split			
Baseline Milestone		Rolled Up Task Progress			