

Source: Secretary

Title: Content of UMTS Releases 99, 4 and 5; Project Control Methodology

Agenda item: 6

Document for:

Decision	
Discussion	
Information	X

Content of the 3G Releases 99, 4 and 5

A GLOBAL INITIATIVE

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A GLOBAL INITIATIVE

Introduction

- **First 3G Release: “*Release 99*”, content frozen at TSG #6 (December 1999)**
- **Second 3G Release: “*Release 4*”, content frozen at TSG #11 (March 2001)**
- **Third 3G Release: “*Release 5*”, content to be frozen at TSG#14 (December 2001)**
- **Time schedule for further Releases not yet established**

Content of Release 99

- **Main feature:**
 - **Creation of the 3G Radio Access Network (RAN)**
- **Other features:**
 - **CAMEL phase 3**
 - **Open Service Architecture (basic version)**
 - **Location Services (LCS): improvements and corrections of the basic version**
 - **Narrowband AMR (new codec)**
- **Lot of other smaller uncorrelated improvements (multicall, HSCSD for 2G, etc)**

Content of Release 4 (1/2)

- **Main features:**
 - **Enable bearer independent CS network architecture: the MSC is split in “Media Gateway” for transport and “MSC server” for signalling**
 - **Streaming: allow to play on the terminal a real time flow stored in a distance place (e.g. a movie)**
 - **Multimedia messaging**
 - **Low Chip Rate TDD**
 - **GERAN**

Content of Release 4 (2/2)

- **Lot of other uncorrelated smaller improvements as:**
 - Terminal Power Saving
 - Migration to modification Procedure
 - UTRAN repeater specification
 - Real time facsimile
 - Transcoder Free Operation
 - Tandem free
 - QoS in PS domain on UMTS bearers (end to end QoS is in Release 5 only)
 - Improvements of: MExE, USIM toolkit, AT command, LCS, emergency calls in CS domain, security, etc.

Content of Release 5 (1/2)

- **Main features:**
 - **IP-based Multimedia Services:** handling of multimedia services using SIP signalling and the bearers offered by the PS domain
 - **Wideband AMR (new codec)**
 - **CAMEL Phase 4:** new functions as mid-call procedures, Interactions with Optimal Routing, etc.
 - **End-to-end QoS in the PS domain**
 - **Global Text Telephony (GTT)**

Content of Release 5 (2/2)

- **Some other uncorrelated smaller improvements already identified as:**
 - IP transport in UTRAN
 - Intra domain connection of RAN nodes to multiples CN nodes
 - Emergency calls in PS domain
 - Smart Antenna
 - Improvements of GERAN, OSA, MEXE, LCS,™
etc.

Working methods (1/4)

- **Up to Release 99 included**
 - “manual” maintenance of a long list of Work Items (WIs): 110 WIs in total for R99.
 - No clear tracking of the work progress.
 - “Flat structure”: all the WIs had the same importance from an administrative point of view
 - Bad readability
 - Overlap of tasks between Working Groups
- Extract of the 3G roadmap on next slide***

Working methods (2/4)

WI Title	Prime resp STC	Rel
CAMEL Phase 3	SMG01	99
Multiple Subscriber Profile (MSP) based on CAMEL ph. 3	SMG01	99
Architecture of the GSM-UMTS Platform	S2/SMG12	99
Architecture overview of the GSM-UMTS System	S2/SMG12	99
3G charging management	S5	99
3G system configuration management	S5	99
CC improvements	N1	99
Frame Tunnelling Mode	N3	99
LAPDm performance enhancement	N3	99

Working methods (3/4)

- **For Release 4 onwards:**
 - **Classification of the WIs in 3 hierarchical levels (Feature, Building Block, Work Task)**
 - Better Top-Down approach
 - **Creation of the 3GPP Work Plan**
 - Easy tracking of work progress
 - Good readability in the scheduling of tasks to be performed by different WGs to achieve a given Feature (Stage 1, then Stage 2, then Stage 3)
 - Easy hiding of the non-relevant information for presentation in a given context (e.g. show only the Features level, or only the work to be provided by SA2, etc.)

Extract of the Work Plan on next slide

Working Methods (4/4)

