3GPP/PCG#10 Meeting Ottawa, Canada 2 May 2003

3GPP/PCG#10(03)14

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Source: Secretary

Title: Status and Content of Release 6

Agenda item: 6.2

Document for:

Decision	
Discussion	
Information	X

1 Introduction

This document provides a complete list of the features that are currently expected to be included with Release 6 and is accurate as of 1st April 2003.

It should be noted that some debates are currently ongoing within 3GPP TSG SA to decide upon the actual content and the freezing date of Release 6 (two possible dates are envisaged: December 2003 or March 2004).

A Gantt Chart is included at the end of this document to show the progress made in completing Release 6 and the expectations for the completion of the outstanding work.

2 Features foreseen to belong to Release 6

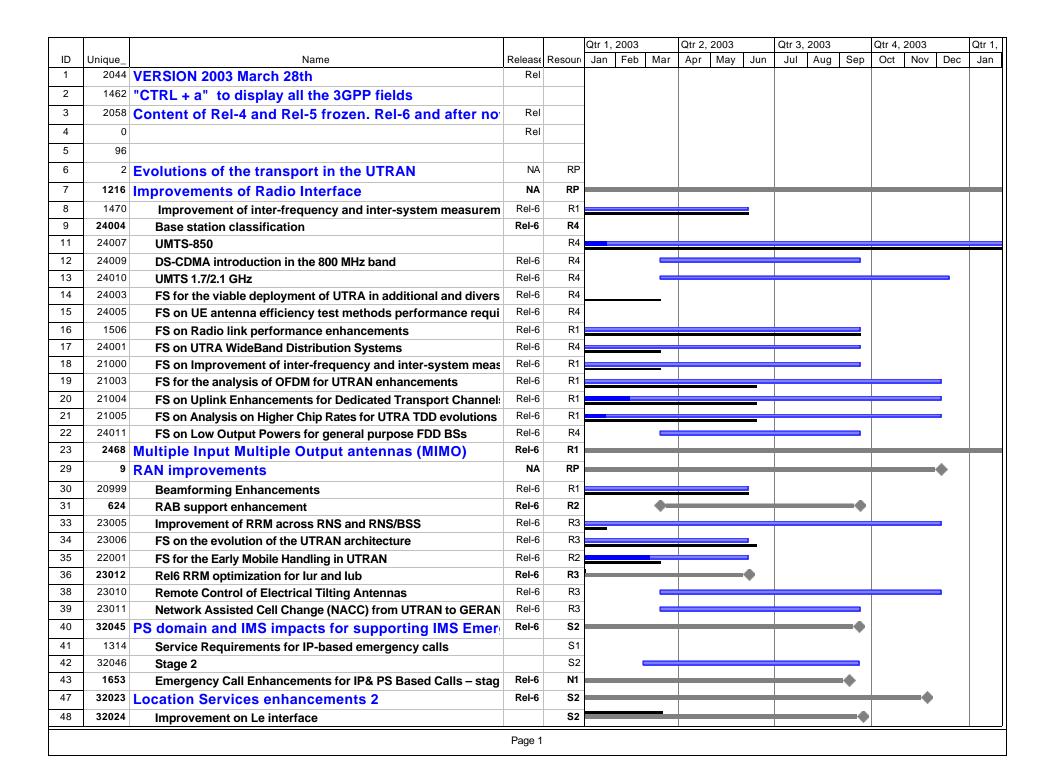
Evolutions of the transport in the UTRAN

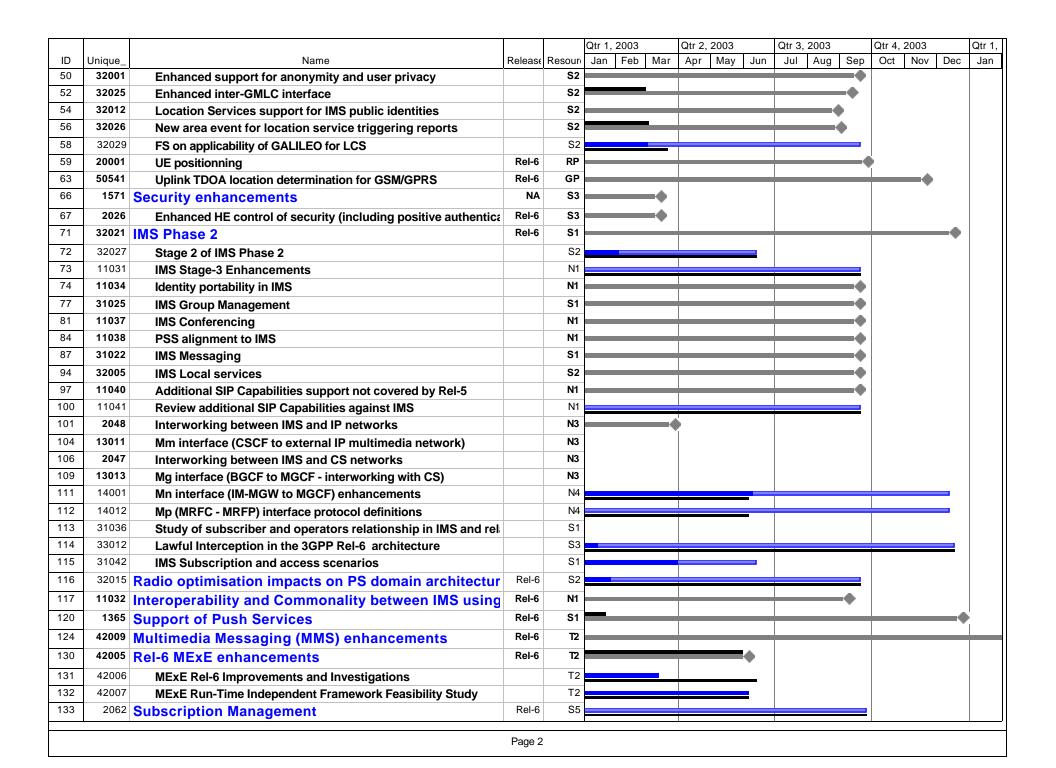
Some work is to be done under this feature in the field of interworking between IP and ATM.

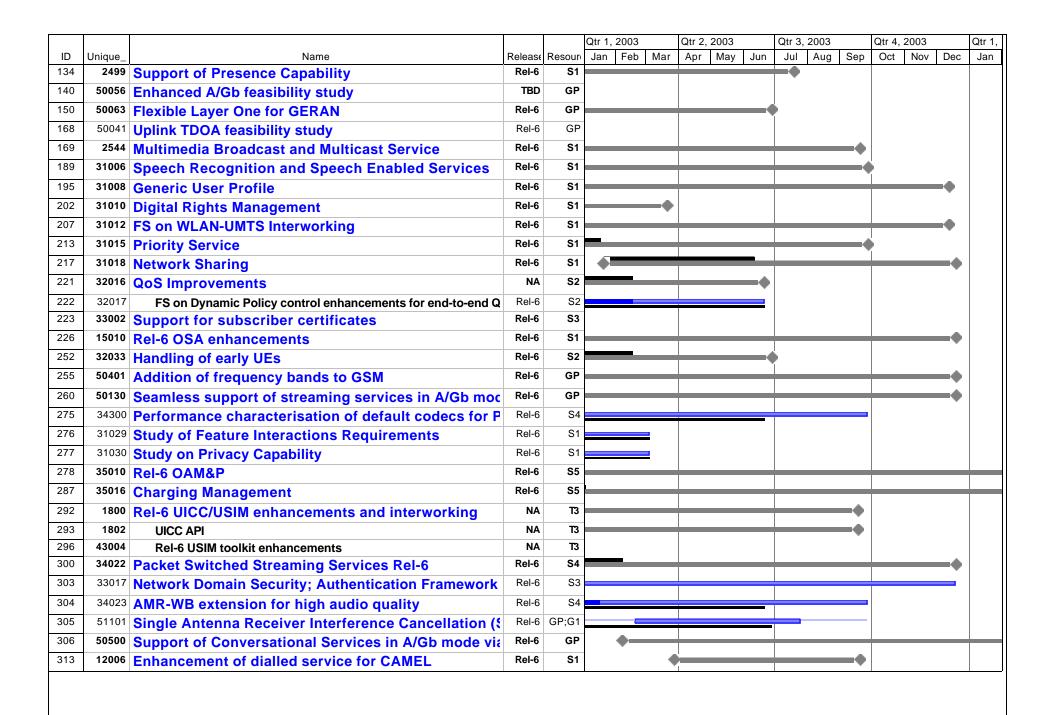
Improvements of Radio Interface

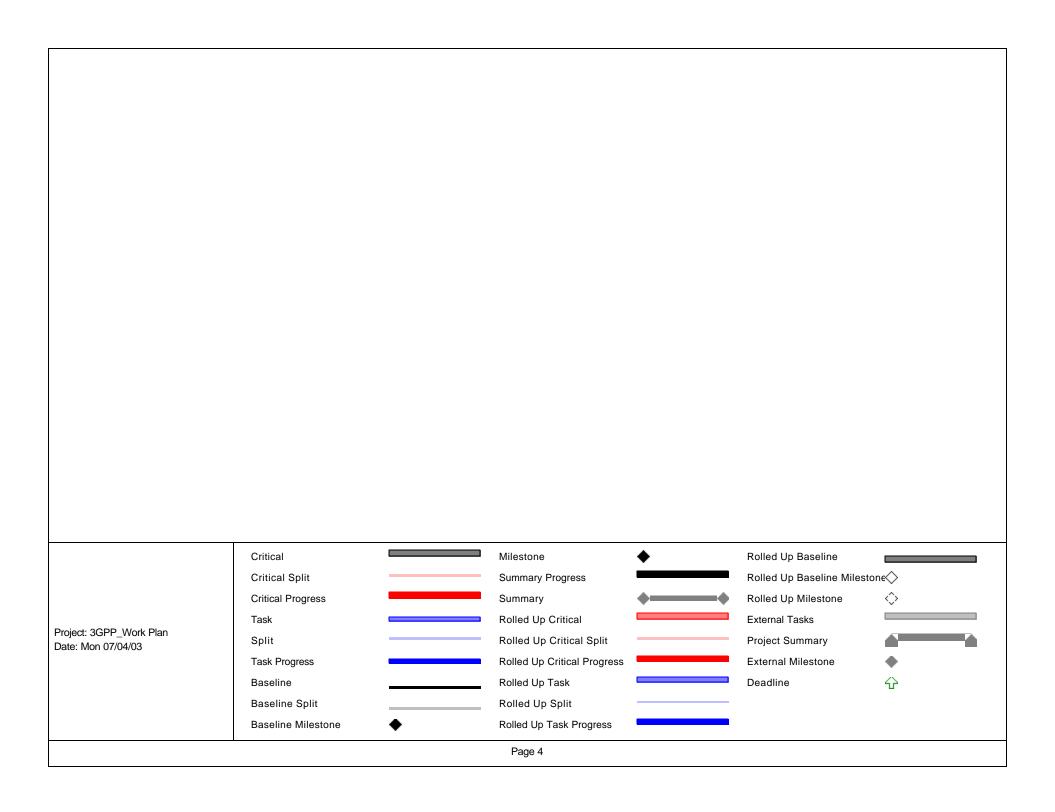
Will include:

- Improvement of inter-frequency and inter-system measurement
- Base station classification
- UMTS-850
- DS-CDMA introduction in the 800 MHz band
- UMTS 1.7/2.1 GHz
- FS for the viable deployment of UTRA in additional and diverse spectrum arrangements
- FS on UE antenna efficiency test methods performance requirements (2)
- FS on Radio link performance enhancements
- FS on UTRA WideBand Distribution Systems
- FS on Improvement of inter-frequency and inter-system measurements for 1.28 Mcps TDD
- FS for the analysis of OFDM for UTRAN enhancements
- FS on Uplink Enhancements for Dedicated Transport Channels
- FS on Analysis on Higher Chip Rates for UTRA TDD evolutions
- FS on Low Output Powers for general purpose FDD BSs









Multiple Input Multiple Output antennas (MIMO)

RAN improvements

Will include:

- Beamforming Enhancements
- RAB support enhancement
- Improvement of RRM across RNS and RNS/BSS
- FS on the evolution of the UTRAN architecture
- FS for the Early Mobile Handling in UTRAN
- Rel6 RRM optimization for lur and lub
- Remote Control of Electrical Tilting Antennas
- Network Assisted Cell Change (NACC) from UTRAN to GERAN network-side aspects

PS domain and IMS impacts for supporting IMS Emergency calls

Location Services enhancements 2

Will include:

- Improvement on Le interface
- Enhanced support for anonymity and user privacy
- Enhanced inter-GMLC interface
- Location Services support for IMS public identities
- New area event for location service triggering reports
- FS on applicability of GALILEO for LCS
- UE positionning
- Uplink TDOA location determination for GSM/GPRS

Security enhancements

Will include "Enhanced HE control of security (including positive authentication reporting)"

IMS Phase 2

Will include:

- IMS Group Management
- IMS Conferencing
- PSS alignment to IMS
- IMS Messaging
- IMS Local services
- Additional SIP Capabilities support not covered by Rel-5
- Review additional SIP Capabilities against IMS
- Interworking between IMS and IP networks
- Mm interface (CSCF to external IP multimedia network)
- Interworking between IMS and CS networks
- Mg interface (BGCF to MGCF interworking with CS)
- Mn interface (IM-MGW to MGCF) enhancements
- Mp (MRFC MRFP) interface protocol definitions

- Study of subscriber and operators relationship in IMS and related ISIM requirements for Rel 6
- Lawful Interception in the 3GPP Rel-6 architecture
- IMS Subscription and access scenarios

Note: " Identity portability in IMS" has been withdrawn at SA#19

Radio optimisation impacts on PS domain architecture

Interoperability and Commonality between IMS using different ""IP-connectivity Networks"

Support of Push Services

Multimedia Messaging (MMS) enhancements

Rel-6 MExE enhancements

Will include:

- MExE Rel-6 Improvements and Investigations
- MExE Run-Time Independent Framework Feasibility Study

Subscription Management

Support of Presence Capability

Enhanced A/Gb feasibility study

Flexible Layer One for GERAN

Uplink TDOA feasibility study

Multimedia Broadcast and Multicast Service

Speech Recognition and Speech Enabled Services

Generic User Profile

Digital Rights Management

FS on WLAN-UMTS Interworking

Priority Service

Network Sharing

QoS Improvements

Will include:

FS on Dynamic Policy control enhancements for end-to-end QoS

Support for subscriber certificates

Rel-6 OSA enhancements

Handling of early UEs

Addition of frequency bands to GSM

Seamless support of streaming services in A/Gb mode

Performance characterisation of default codecs for PS conversational multimedia application

Study of Feature Interactions Requirements

Study on Privacy Capability

Rel-6 OAM&P

Charging Management

Rel-6 UICC/USIM enhancements and interworking

Will include:

- UICC API
- Rel-6 USIM toolkit enhancements

Packet Switched Streaming Services Rel-6

"Network Domain Security; Authentication Framework (NDS/AF)"

AMR-WB extension for high audio quality

Single Antenna Receiver Interference Cancellation (SAIC)

Support of Conversational Services in A/Gb mode via the PS domain

Enhancement of dialled service for CAMEL