Technical Specification Group, Radio Access Network
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Source: **SMG2**

Title: **Cover page for the L23 documentation towards SMG**

Document for:

Agenda Item:

ETSI SMG #28 **Tdoc SMG P-99-082**
Milan
February, 1999
Source: SMG2
Agenda Item: 7.2

Subject : Cover page for the L23 documentation towards SMG

1. List of documents

SMG2 #29 has reviewed and approved the documents which are listed in the table below:

	Title	Status	SMG Td
YY.01	MS-UTRAN Radio Interface Protocol Architecture	approved by SMG2	Td P-99-083
YY.02	Layer 1 : general requirements	approved by SMG2	Td P-99-084
YY.03	Description of UE states and procedures in connected mode	approved by SMG2	Td P-99-085
YY.04	Description of procedures in idle mode	approved by SMG2	Td P-99-086
YY.21	Description of MAC protocol	approved by SMG2	Td P-99-087
YY.22	Description of RLC protocol	approved by SMG2	Td P-99-088
YY.31	Description of RRC protocol	approved by SMG2	Td P-99-089
YY.40	Guidelines and principles for error handling and message description	approved by SMG2	Td P-99-090

These documents are description documents, for which a definition is described below:

A description document is intermediate between a stage 2 document and a protocol specification. Once completed, it should be sufficient for manufacturers to start some " high level design " activities. It should allow as well to assess the complexity of the associated protocol. After the completion of a description document, the drafting of the protocol specification should not have to face difficulties which would impact the other protocols i.e. the radio interface protocol architecture should be stable. This means that some procedures which are felt critical in terms of complexity will need to be studied in more details in the description document so that no problem is faced in the writing of the final protocol.

The status of these description documents is described in the following section.

2. Status of the documents

2.1 YY.01 : UE-UTRAN Radio Interface Protocol Architecture

This document is stable and almost complete.

Some open points remain:

- ciphering, pending exact requirements

- the size and usage of the RACH message: a small request (similar to GSM), or a complete signalling messages (e.g. cell update). Discussion continues with the L1 experts group.

2.2 YY.02 : Layer 1: General Requirements

This document is stable and almost complete.

Some further work needed:
- DSCH Control Channel
- primitives to access the physical layer services are incomplete

2.3 YY.03 : Description of UE States and procedures in connected mode

This document is stable and almost complete.

The document describes the radio interface states, as well as detailed inter-layer procedures on RRC connections, and on handovers between UMTS and GSM dedicated mode.

2.4 YY.04 : Description of procedures in idle mode

This document is stable and reflects the current agreements in SMG2 and SMG12 (after a joint meeting done on the subject).

Still, the document is incomplete, and further progress will need to be co-ordinated with other technical groups than SMG2. Essential points to clarify are the service requirements relevant for UMTS. One example is the cell selection/re-selection service requirement related to multi-mode terminals e.g. how to perform the selection of a TDD cell vs a FDD cells vs a GSM cell.

2.5 YY.21 : Description of MAC protocol

This document is stable and close to completion.

Missing parts are essentially the following:
- protocol procedures
- contention resolution

2.6 YY.22 : Description of RLC protocol

This document is stable but further work is needed.

Missing parts are essentially the following:
- PDU description
- Protocol procedures

2.7 YY.31 : Description of RRC protocol

This document is stable and close to completion.

More procedures will need to be added, and also a more detailed message description.

2.8 YY.40 : Guidelines and principles for error handling and message description

The document has been updated after the SMG2 ad-hoc on protocol methodology. It now contains recommendations from which the technical groups should define how they will write the protocol specifications. More work is needed on the document .