

Agenda Item: 7.1
Source: ITU-R Ad Hoc Contact Person
Title: Updated information on the Roadmap
Document for: Approval

[ITU Member]¹

UPDATED INFORMATION ON THE ROADMAP

This contribution contains updated information on the Roadmap for IMT-2000 CDMA DS and IMT-2000 CDMA TDD, with reference to the main technical areas under investigation within 3GPP TSG RAN.

- **Radio Interface Improvements**

It includes:

- *UMTS 2.6 GHz (FDD)*
- *UMTS 2.6 GHz (TDD)*
- *UMTS 900 MHz*
- *Improved Receiver Performance Requirements for HSDPA*
- *UE Antenna Performance Evaluation Method and Requirements*

- **Multiple Input Multiple Output antennas (MIMO)**

- **RAN improvements**

It includes:

- *RAB support enhancement*
- *Optimisation of downlink channelisation code utilisation*
- *Optimisation of channelisation code utilisation for TDD*
- *HS-DPCCH ACK/NACK Enhancement*

- **Enhancement of the support of network sharing in the UTRAN**

- **7.68Mcps TDD option**

- **UE Positioning**

It includes:

- *Inclusion of Uplink TDOA UE positioning method in the UTRAN specifications*

- **Uplink enhancements for UTRA TDD**

¹ This contribution was developed in 3GPP TSG RAN.

- **UTRA and UTRAN Evolution**

It includes:

- Related to the radio-interface physical layer (downlink and uplink):
 - e.g. means to support flexible transmission bandwidth up to 20 MHz, introduction of new transmission schemes and advanced multi-antenna technologies
- Related to the radio interface layer 2 and 3:
 - e.g. signaling optimization
- Related to the UTRAN architecture:
 - identify the most optimum UTRAN network architecture and functional split between RAN network nodes, not precluding considerations on the functional split between UTRAN and CN (SA2 experts should be invited to the latter topic)
- RF-related issues

The most updated and complete list of all technical areas currently addressed within 3GPP, together with a description of the current status of the activities, can be found on the 3GPP web site www.3gpp.org

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- **Radio Interface Improvements**

It includes:

- UMTS 2.6 GHz (FDD)
- UMTS 2.6 GHz (TDD)
- UMTS 900 MHz
- Improved Receiver Performance Requirements for HSDPA
- UE Antenna Performance Evaluation Method and Requirements
- ~~Improvements of inter frequency and inter system measurements~~
- ~~Improved Receiver Performance Requirements for HSDPA~~

- **Multiple Input Multiple Output antennas (MIMO)**

- **RAN improvements**

It includes:

- RAB support enhancement
- Optimisation of downlink channelisation code utilisation
- Optimisation of channelisation code utilisation for TDD
- HS-DPCCH ACK/NACK Enhancement
- ~~RAB support enhancement~~
- ~~RRM optimizations for Iur and Iub~~
- ~~Remote Control of Electrical Tilting Antennas~~

- ~~**Multimedia Broadcast/Multicast Service (MBMS)**~~

- **Enhancement of the support of network sharing in the UTRAN**

¹ This contribution was developed in 3GPP TSG RAN.

- **7.68Mcps TDD option**

- **UE Positioning**

It includes:

- Inclusion of Uplink TDOA UE positioning method in the UTRAN specifications~~A-GPS minimum performance specification~~

- **Uplink enhancements for UTRA TDD**

- **UTRA and UTRAN Evolution**

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