

Agenda Item : 7.1.

Source : Bouygues Telecom

Title : Choice of ACLR value

Document for : Discussion

The ACLR value is a very important issue for the UMTS system and its cohabitation with the other systems.

The ACLR value impacts directly the system performances:

- The Quality of Service
- The capacity

The QoS was not considered in the simulations made by different companies.

Nevertheless this performance is essential for operators.

Regarding the capacity, a simulated loss of 1% is the maximum operators can tolerate. So 35 dB is an acceptable value for the UE ACLR.

However it is necessary to consider the frequency constraints. Indeed in the ERC TG1, the assumptions are:

- 40 dB for the UE
- 60 dB for the Base Station

So if we want to choose any inferior figure than 40 dB, it is necessary to send a liaison statement to the ERC TG1¹ in order to receive its analyze of ACLR effects on the UMTS guard bands.

With ERC TG1 results, we will have all aspects of the ACLR impacts and we will be in a good position to make a choice.

¹ The ERC TG1 meets the 15th and the 16th June.