

To: TSG RAN WG2

Source: TSG RAN WG4

Title: **LS on capability to limit power output of UE**

1 Introduction

TSG RAN WG4 is currently performing system simulation for UTRA. From the discussions in WG4 relating to simulation results, it is clear that the maximum output power needed from a terminal to achieve a given QoS depends on the environment in which they are used (eg, whether the cell is a macro-, micro- or picocell), and the type of bearer. There are also reasons why an operator may wish to limit the maximum output power of terminals.

2 Support of limiting the UE output power

WG4 requests that WG2 provide the signalling capability for the operator to be able to restrict the maximum output power of the UE:

- 1) on a cell-by-cell basis.
- 2) On a service dependent basis.

WG4 also notes that there have been proposals to use TDD for licence-exempt (also called unlicensed) operation. In this mode of operation, the maximum output power is also likely to be restricted. WG4 believes that there may be terminals which are intended for licence-exempt operation as well as in networks operated by network operators. These terminals will need to meet two sets of requirements for the two modes of operation.