TSG-RAN Working Group 3 meeting #2
Stockholm 15th – 19th March1999

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Agenda Item: **9.3.4**

Source: **Telecom Modus**

Title: **SSDT impacts on RRC Protocol**

Document for: **Approval**

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1 INTRODUCTION

This contribution proposes supporting information related to 'Site Selection Diversity Transmit power control' (SSDT) on RRC protocol. We propose this information to be included in [2].

2 SSDT

2.1 Background

SSDT is an optional macro diversity method in soft handover mode whereby the UE selects one of its cells from its active set to be 'primary', and all others are classed as 'non-primary'. The main objective of SSDT is to transmit on the downlink from the best cell, thus reducing the interference caused by multiple transmissions in a soft handover mode. SSDT is initiated and terminated in the SRNC.
For further information on SSDT, please read reference [1], section 4.2.3.

2.2 SSDT indicator

Based on the soft handover active cell set, the SSDT function is initiated/terminated in the SRNC. The status of SSDT (i.e. initiated/terminated) is sent to the UE. We propose that the SSDT status indicator is to be included in the corresponding procedures of the RRC protocol.

2.3 UE 'SSDT' capability

The SRNC should contain the UE SSDT capability prior to initiation of SSDT. We propose that the SRNC receives an indication of the UE's SSDT capability, to be included in the corresponding procedures in the RRC protocol.

3 PROPOSED CHANGES

We propose:
RRC protocol (proposal of changes in [2]):
RRC protocol message 8.3.8.1 UE Capability Information in [2]: we propose this message to include the UE ‘SSDT’ capability.
RRC protocol message 8.3.5.1 Active cell update in [2]: we propose this message to include the ‘SSDT’ initiation/termination indicator.

4. REFERENCES

[1] XX.07, Physical layer Procedures, ver. 1.0
[2] YY.31, Description of the RRC, ver. 0.2.0