

TSG-RAN Meeting #14
Kyoto, Japan, 11 - 14 December 2001

RP-010936

Title: Proposed Work Item description sheet on “Support of Site Selection Diversity Transmission in UTRAN”
Document for: Approval
Source: NEC, Fujitsu
Agenda Item 9.9

Work Item Description

Title: Support of Site Selection Diversity Transmission in UTRAN

1 3GPP Work Area

| | |
|---|--------------|
| X | Radio Access |
| | Core Network |
| | Services |

2 Linked work items

None.

3 Justification

SSDT is defined in R99 and Rel4 specifications. The UE behaviour was clarified as result of specification clean-up agreed at RAN#14 and allow for full support of SSDT on the UE side from R99. In recent discussions in RAN#14 it was clarified that there is no full support of SSDT in the UTRAN. Indeed in R99 and Rel4 specifications it is assumed that the Qth parameter in Node B is set as an OAM parameter with vendor specific definition & signaling ranges. However support of Qth parameter over NBAP would be needed for multi-vendor NodeBs for deployment of SSDT and hence full support of SSDT on the UTRAN side. In addition the physical quantity (UTRAN measurement) used in combination with the Qth parameter should be defined in RAN 1 25.214 specification and performance requirements for the Node B defined.

4 Objective

The objective of this WI is to provide the necessary changes and additions required in the current RAN specifications to provide full support of SSDT in UTRAN. Specifically the work item should:

- Specify the Qth parameter
- Specify the physical measurement quantity at node B for use in combination with the Qth parameter
- Specify performance requirements for Node B in RAN4 specifications
- Specify signalling of the Qth parameter over the Iub and Iur interfaces

25 Service Aspects

None

25 MMI-Aspects

None

25 **Charging Aspects**

None

25 **Security Aspects**

None

25 **Impacts**

| Affects: | USIM | ME | AN | CN | Others |
|-------------------|-------------|-----------|-----------|-----------|---------------|
| Yes | | | X | | |
| No | X | X | | X | |
| Don't know | | | | | |

Expected Output and Time scale (to be updated at each plenary)

| New specifications | | | | | | |
|---|-------|--|--------------------------------------|---|-------------------------|----------|
| Spec No. | Title | Prime rsp. WG | 2 nd ary rsp. WG(s) | Presented for information at plenary# | Approved at plenary# | Comments |
| | | | | | | |
| | | | | | | |
| Affected existing specifications | | | | | | |
| Spec No. | CR | Subject | | Approved at plenary# | Comments | |
| 25.214 | | Physical Layer Procedures (FDD) | | RAN#15 | | |
| 25.104 | | Radio transmission and Reception (FDD) | | RAN#16 | | |
| 25.433 | | UTRAN Iub interface NBAP signalling | | RAN#15 | | |
| 25.423 | | UTRAN Iur interface RNSAP signalling | | RAN#15 | | |
| | | | | | | |

11 Work item rapporteurs

[NEC]

12 Work item leadership

TSG-RAN WG1

13 Supporting Companies

NEC, Fujitsu, Nokia, Mannesmann Mobilfunk, Vodafone Group, Hutchison 3G, Lucent

14**Classification of the WI (if known)**

| | |
|---|----------------------------|
| X | Feature (go to 14a) |
| | Building Block (go to 14b) |
| | Work Task (go to 14c) |

14a The WI is a Feature: List of building blocks under this feature
RAN Technical Small Enhancements and Improvements
(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)