TSG-RAN Working Group 4, meeting #8   *TSG R4#8(99)706*
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Agenda Item: 8.6

Source: **Ericsson**

Title: Modified scope and structure for 25.103

Document For: Decision

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1. Introduction

This contributions aims to clarify the purpose, scope and role of 25.103 "RF Parameters in Support of Radio Resource Management".

We propose to slightly extend the scope of the specification, in order to cover all requirements needed for the support of radio resource management. We also propose a new naming to reflect the slightly changed scope. This is done to ease understandability of what is needed from a specification point of view, and to open up for new contributions in this area.

2. Motivations and Proposals

2.1 Specification scope

The current scope of the specification (section 1) is merely a repetition of the specification title, and does not guide the reader/contributor in what the purpose with the specification is. For that reason we propose to clarify the specification scope.

We believe that the key issue with this specification is to define and set requirements from a radio resource management point of view. Typically, radio resource management is performed by manufacturer specific radio network functions.

The radio network functions needs a well-defined and specified environment to execute in. We see two categories of requirements for the radio network functions:

- Measurements requirements, as they define the input for the radio network functions.

- Requirements on node dynamical behaviour/response, as they provide the knowledge of what is possible to control and with what performance. For example could this be the delay between the reception of the RRC message Active Set Update until the UE has started to power control to the new radio link.

These performance requirements shall follow the functional descriptions given in other specifications and might also give the baseline for series of conformance tests to be performed.

The scope should reflect the information we expect to have in the specification. Therefore, we propose the following change to 25.103:

1.   Scope

This Technical Specification shall describe RF parameters and Requirements for the Radio Resource Management.

This technical specification specifies requirements for measurements in UTRAN and the UE. It also specifies requirements on node dynamical behavior and interaction, in terms of delay and response characteristics.

2.2   Specification title

Requirements for radio resource management are more than only RF parameters. This means that we see no need for the title to limit the requirements to only RF Parameters. For that reason we propose to change the title from

"RF Parameters in Support of Radio Resource Management"

to

"Requirements for Support of Radio Resource Management".

2.3   Renaming of sections

2.3.1   Radio Access Bearer Control, (section 9 and 10)

Radio Access Bearer Control, is the ability for UTRAN to fulfil the requested QoS attributes. This is a SRNC internal function and we see no needs for specifying requirements for this function.

However, another functionality, which not yet has been considered, is RRC Connection Control. This functionality is responsible for the maintaining and reestablishment of a RRC Connection.

For the reasons above, we propose:

- Section 9, "Radio Access Bearer Control (FDD)" shall be renamed to "RRC Connection Control (FDD)".

- Section 10, "Radio Access Bearer Control (TDD)" shall be renamed to "RRC Connection Control (TDD)".

- In section 9, and 10 (now named RRC Connection Control) the following editors note is added: *<Editors Note: This section specifies triggering requirements on the RRC Connection re-establishment Procedure>*

2.4   Removal of Sections

Measurements are treated in their own sections in 25.103 (section 18 and 19). This means that measurement requirements do not need to be included in the functional sections in 25.103, leaving the dynamical behaviour for those sections.

This also means, that functions that are node internal, do not need to be specified at all, and hence shall be removed from this specification.

2.4.1   Admission Control, (section 7 and 8)

Admission Control is a CRNC internal function that decides whether or not a new service request shall be admitted, (see 25.401, section 7.2.1.1). As the function is CRNC internal, there is no need to specify any requirements in the specifications.

For the above reasons, we propose:

- Section 7, "Admission Control (FDD)" shall be removed, as Admission Control is a CRNC internal function.

- Section 8, "Admission Control (TDD)" shall be removed, as Admission Control is a CRNC internal function.

2.4.2   Dynamic Channel Allocation (FDD), section 11

Dynamic Channel Allocation is not applicable for FDD. For that reason we propose:

- Section 11, "Dynamic Channel Allocation (FDD)" shall be removed, as we do not foresee such functionality in release 99.

2.4.3   Annexes

Scenarios that are needed for setting requirements shall be included in 25.942. We se no reason why scenarios needed for this specification not can be included there. Therefore we propose:

- Section "Annex – A: RF Power Scenario" shall be removed.

- Section "Annex – B: Handover Scenario" shall be removed.

3.   References

[25.103]   *RF Parameters in Support of Radio Resource Management*, v.2.0.0