

**Agenda item:** 14  
**Source:** TSG RAN WG3  
**To:** TSG RAN WG1  
**Title:** LS from WG3 to WG1, answer to LS on Radio Link Initialisation  
**Document for:** Decision  
**Contact person:** Achim.Brandt@icn.siemens.de

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RAN3 thanks RAN1 for the "LS to WG3 on Radio Link Initialisation" (R3-002697 = R1-001320), presented at RAN3#16.

RAN3 can answer the questions from RAN1 as follows. For better readability, the questions by RAN1 are shown italic while the answers are normal.

*1) RAN1 would like to ask the assistance of RAN3 in clarifying a matter of layer 1 behaviour which occurs at the prompting of NBAP operations. The behaviour is described in section 8.2.17.2 of TS 25.433 v3.2.0 and is FDD specific: [FDD - The First RLS Indicator IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. If the First RLS indicator IE is set to "first RLS", the Node B shall use a TPC pattern of n\* "01" + "1" in the DL of the concerning RL and all RLs which are part of the same RLS, until UL synchronisation is achieved on the Uu. ....]*

*?? RAN1 would like to understand the benefit of the functionality. It would seem to be a mechanism to slowly 'drift' UE transmit power upwards prior to control loop closure, however RAN1 would be grateful for RAN3 clarification.*

Answer to RAN1: This procedure description has been introduced by NBAP CR128 (Tdoc R3-001489) and RNSAP CR110 (Tdoc R3-001314) approved at R3#13 (Oahu, May 2000). The CRs are attached to this LS.

The purpose is - as RAN1 presumed right - to provide a mechanism to slowly 'drift' UE transmit power upwards prior to control loop closure. Please refer to the CR for more information.

*2) It is the understanding of RAN1 that this wording specifies layer 1 behaviour and RAN1 believes that users of the 3GPP specification set should be able to find a complete specification of the physical layer of the Uu interface in the WG1 specifications. RAN1 is currently specifying several aspects of radio link initialisation, including initial operation of the power control algorithms and TPC generation. To achieve this RAN1 is considering enhancing TS 25.214, Physical layer procedures (FDD). Such enhancement would allow removal of direct specification of the FDD physical layer specific TPC generation from the NBAP specification.*

Answer to RAN1:

In the understanding of RAN3, the primary purpose of the L1 specifications is the specification of the Uu, i.e. the L1 behaviour of the UE. From a Uu point of view, the specification of the network side behaviour should be avoided. However, from an open Iub interface point of view, the behaviour of the Node B need to be specified, including some L1 aspects. The behaviour of the Node B is specified in the Iub specifications, in particular NBAP. However, a practical approach has been taken, that certain L1 behaviour of the Node B is specified in the WG1 specifications, and thus referred to by the WG3 specifications.

Thus, RAN3 specifications can in some cases include an explicit definition of the layer 1 behaviour of the Node B, but if possible, RAN3 will refer to an existing layer 1 network-side specification in RAN1 specifications.

3) RAN1 also asks RAN3 to consider specifying the invocation of this procedure by reference to the FDD physical layer procedures document.

Answer: RAN3 is ready to update this procedure description in TS 25.433 by referring to the corresponding procedure description in the RAN1 specifications whenever possible.

Attachment: The CRs for NBAP and RNSAP.



"R3-001489 NBAP  
CR128.doc"



"R3-001314 RNSAP  
CR110.doc"