

Title: liaison on support of compressed mode signalling on lur / lub

To: TSG RAN WG3

Source: TSG RAN WG2

RAN WG2 would like to notify RAN WG3 on the description of physical layer compressed mode signalling in TS 25.302 and to clarify the possibility to support this kind of mechanism on lur / lub interfaces within the domain of R3.

The need to set up a number of compressed mode parameters with special signalling procedures on RNSAP / NBAP is acknowledged by R2. R2 is also aware of the fact that the compressed frame pattern to be applied needs to be signalled from the NW to the UE prior to sending compressed frames.

The current description of 25.302, however, describes an inband identification of the compressed frames, which could be used after the parameters concerning the format of a compressed frame have been transferred to Node B:s. This approach may allow faster starting and variations of compressed mode patterns, because the inband indications can be transmitted right after the change in compressed frame pattern has been signalled to the UE, without confirmed procedures on lur / lub.

The current model describes a compressed mode on / off flag that is included in the physical layer data request primitive that is to be triggered to transfer data once in every transmission time interval (TTI). The following challenges have been identified:

- The compressed frame indication would be needed for every radio frame. The TTI, however, can be longer (e.g. 20 or 40 ms).
- The data primitives are triggered per DCH. The compressed frame indication is UE-specific and concerns all the DCH:s associated to that UE.

Provided a feasible solution is found in RAN WG3, R2 would kindly request R3 the support of this kind of model (transmission of one bit per 10 ms frame per UE) on the lur / lub interfaces.