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TSG-RAN Working Group 2 (Radio layer 2 and Radio layer 3)
Sofia Antipolis 29th Nov to 3rd Dec 1999

TSGR2#9(99)K90

To: TSG-RAN WG1, WG3, WG4
Source: RAN WG2
Title: LS on Synchronisation Detection

TSG RAN WG2 would kindly like to ask RAN WG1 and WG4 for comments to the mechanism which was agreed in RAN WG2 meeting #9 (29th Nov to 3rd Dec '99). In RAN WG2, it is assumed that the RRC receives the indication of out of synchronisation from layer 1. It is also assumed that the trigger criteria to decide "Physical CH establishment" or "Radio link failure" are RRC dependent and should be possible to adjust from the network. It can be understood that there may be several ways for layer1 to indicate "out of sync" or "in sync" from the description in TS25.214 v3.0.0, however, we believe the quality of those indications should be seen as same to RRC regardless of the mechanism the UE supports in layer1.

RAN WG2 would also like to ask RAN WG3 on the status on this out of sync indication over the RAN-WG3 interfaces.

The followings are the mechanism we have defined in the TS25.331.

8.5.4 Physical channel establishment criteria

When a physical dedicated channel establishment is initiated by the UE, the UE shall start a timer T312 and wait for layer 1 to indicate N312 successive "in sync" indications. At this occasion, the physical channel is considered established and the timer T312 is stopped and reset.

If the timer T312 expires before the physical channel is established, the UE shall consider this as a "physical channel establishment failure".

8.5.6 Radio link failure criteria

In Cell_DCH State, the UE shall start timer T313 after receiving N313 consecutive "out of sync" indications for the established DPCCH physical channel from layer 1. The UE shall stop and reset timer T313 upon receiving successive N315 "in sync" indications from layer 1 and upon change of RRC state. If T313 expires, the UE shall consider it as a "Radio link failure".