

Source: 3GPP TSG RAN WG1
To: 3GPP TSG RAN WG4
Title: Draft LS on UL transmission timing in soft handover
Contact: Tim Mouldsley
Philips Research Laboratories, UK
Tel: +44 1293 815000
Fax: +44 1293 815500
Email: tim.mouldsley@philips.com

RAN WG1 has identified some undesirable behaviour of the UL transmit timing when UEs are in soft handover.

When a UE is not in soft handover, the UL transmissions are required to be $T_0 + 1.5$ chips after the earliest received downlink path. However, if this is applied to the soft handover case, a situation can arise when the UE is continually reporting each Node B in turn as having DL timing outside the valid range, and the UE is also continually slewing its own timing. For a detailed description of the problem, RAN WG4 is referred to [1].

RAN WG1 has therefore decided that the details of the UL transmit timing should be corrected when a UE is in soft handover, and has approved the attached CR for Release 1999.

RAN WG1 asks RAN WG4 to make corresponding corrections to the relevant requirements in TS25.133.

Reference:

[1] R1-00-1198 “*UE transmit timing in soft handover*”, Philips