

Source: WG1
To: WG2
Cc: RAN, WG3, WG4
Title: Liaison on LCS to WG2

WG1 thanks WG2 for the liaison (TSGR2#7(99)c72). WG1 will define L1 measurements for LCS methods as selected. In particular WG1 will specify measurements for:

- OTDOA-IPDL; and
- network assisted GPS.

What kind of measurements are required for the network assisted GPS method in L1 is not clear yet. WG1 asks for guidance on those requirements from WG2.

WG1 has identified the RTT (Round Trip Time) measurement to be very useful for LCS. The additional complexity to support RTT is expected to be very small. RTT can be used to improve cell-coverage based methods and as backup and reliability indicator for other methods (eg. GPS and IPDL). The UE Rx-Tx time difference measurement is needed both as a prerequisite to RTT and for other purposes. WG1 proposes that the UE Rx-Tx difference and RTT measurements be included in R99 also by WG2.

Since the IPDL method uses the CPICH to determine the OTDOAs it is of relevance what the power of that signal is. The parameter agreed in WG1 is 10 % of the total BS power. WG1 requests WG2 to indicate whether this is a reasonable level.

Panasonic presented the PE method for LCS [2]. It was decided that this would be better to discuss in WG2.

[1] TSGR1#8(99)g57, Positioning method proposal, Panasonic.