TSG-RAN Working Group 1 meeting #9
Dresden, Germany
November 30 – December 3, 1999

TSG R1(99)I11

Source: Motorola

To: RAN WG2

Subject: Draft Response to the WG2 Liaison on LCS TA-IPDL Methods Performance

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WG2 is augmenting the stage 2 description of LCS, and considered during its recent LCS ad-hoc meeting (25-26 November) whether to include the Time Aligned configuration of IPDL (Idle Period / Downlink) within the general description of IPDL and OTDOA methods. A description has been drafted for this purpose, but a final decision on inclusion depends on quick evaluation of requirements and benefits.

It is understood that this method will require some additional signalling, an aspect which still requires further study. In the meantime, WG2 asks WG1 to analyse the potential performance benefits that may be obtained by time alignment of idle periods, and to provide WG1 with an evaluation of such benefits.

WG1 has considered the location accuracy of the various IPDL configurations for LCS. Models for network layout, path loss, fading profiles and other relevant aspects have been defined in order to enable simulations to be carried out, and comparisons to be made. A number of inputs based on these agreed models have been received and discussed.

For the TA-IPDL configuration, results so far obtained show good agreement. However, there is no consensus at present regarding the performance of standard IPDL, and therefore it is not currently possible to make an evaluation of the relative benefits of time alignment.

WG1 realises that this issue should be resolved as soon as possible, and therefore will continue to discuss performance issues in the forthcoming meetings.