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Source: TSG-RAN WG4

To: TSG-RAN WG1

Cc: TSG-RAN WG2

Title: Response to RAN WG1 LS on compressed mode transmission gap length (TGL) 8 and further limitations on compressed mode usage in 25.133

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RAN WG4 would like to thank RAN WG1 for their liason statement regarding the use of TGL values of 8. The use of TGL=8 was discussed during RAN4#14 in Nice and it was shown at that time that transmission gap pattern sequences utilising this value could improve the cell search performance for GSM BSIC identification and reconfirmation. On further discussion at the RAN4#15 meeting in Boston it was agreed that, while TGL=8 does provide some advantage, similar performance could also be achieved using the existing TGL value of 10 and the late introduction of a new value into the specifications could not be sufficiently justified. It was therefore agreed to remove the associated patterns from 25.133. With respect to the possible inclusion of TGL values of 8 in Release 4 specifications, RAN WG4 has not reached any conclusion at this point.

RAN WG4 would also like to inform RAN WG1 and RAN WG2 of the outcome of further discussions in RAN4#15 on the usage of compressed mode and the setting of performance requirements in 25.133. It was agreed that there would be difficulty to ensure the performance requirements for inter-frequency and/or inter-RAT measurements if one or both of the following conditions occurred:

- ?? the activation of one or more transmission gap pattern sequences results in every frame being compressed, and
- ?? the transmission gap pattern sequences contained two differing patterns (i.e., TGPL1 ? TGPL2).

RAN WG4 would like to make RAN WG1 and RAN WG2 aware that for these reasons, the following text has been proposed for insertion into Section 8.1.2.1 of 25.133.

If the UE utilises compressed mode for inter-frequency and/or inter-RAT measurements, in order for the requirements in the following subsections to apply the UTRAN must provide

- ?? transmission gap pattern sequences with TGPL1 > 1 and ensure that the activation of several transmission gap pattern sequences in parallel does not result in every frame being compressed, and
- ?? the patterns within a transmission gap pattern sequence are identical (i.e., TGPL1 = TGPL2).

RAN WG4 kindly requests RAN WG1 and RAN WG2 to take these changes into consideration in future revisions of their specifications as they relate to compressed mode and to inform RAN WG4 if they forsee any issues with the proposed change.