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Source: TSG RAN WG1

To: TSG RAN WG2

Copy: TSG RAN WG3

Title: IPDL scheme for location services in TDD mode

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RAN WG1 would like to inform RAN WG2 that RAN WG1 has investigated idle periods in the downlink transmission (IPDLs) in the TDD mode to provide sufficient accuracy and coverage for location services (LCS) in the TDD mode.
RAN WG1 agrees that IPDLs for TDD are beneficial and recommends to update the IDPL scheme in the technical report TR 25.847 according to section 3 of the attached document.
The two changes compared to the current scheme in TR 25.847 are:

1. A new parameter IP_Start has been introduced. It is used to calculate the number of the first frame with an idle period in an IPDL-burst.
2. The new parameter IP_PCCPCH indicates, if the P-CCPCH is switched off in the frame that follows the frame with an idle period.

Concerns have been raised with regard to the proposed method and the impacts of the following items still have to be investigated :

1. Open loop power control performance if the beacon channels are switched off.
2. Backward compatibility for release 99 terminals.
3. Impact on cell search.

RAN WG1 will continue work on the three mentioned items.


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