

**TSG-RAN Working Group 1 meeting No. 16**  
**October 10 – 13, Pusan, Korea**

***TSGR1-00-1204***

TSG-RAN Working Group 4 meeting No. 13  
Sept. 4-8, Torino, Italy

TSGR4-000722

**Title:** LS on cell synchronisation accuracy requirement for TDD  
**Source:** TSG RAN WG4  
**To:** TSG RAN WG1  
**CC:** TSG RAN WG3  
**Contact person:** Eldad Zeira, Meik Kottkamp  
[eldad.zeira@interdigital.com](mailto:eldad.zeira@interdigital.com)  
[meik.kottkam@icn.siemens.de](mailto:meik.kottkam@icn.siemens.de)

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TSG RAN WG4 received a LS from WG1 in its WG4#12 meeting (R4-000322 and R1-000606, respectively). In answer to this LS WG4 would like to inform WG1 that, following the discussion during the last RAN WG4 #12 and #13 meetings, the following decisions regarding cell synchronisation accuracy requirement for the 3.84 Mcps TDD Mode were approved:

1. Synchronisation accuracy requirement:  
After investigation of the effects of imperfect Node-B / cell synchronisation, WG4 agreed to include a minimum requirement for cell synchronisation accuracy of 3µs in its specification.
2. The following definition of cell synchronisation accuracy requirement will be used for the above mentioned minimum requirement:  
“The accuracy is defined as the maximum deviation in frame start times between any pair of cells that have overlapping coverage areas.”
3. It was furthermore agreed to include the requirement into the WG4 specification 25. 123 version 3.2.0, in particular in section 8.

TSG RAN WG4 kindly ask TSG RAN WG1, as responsible working group for the TDD cell synchronisation work item, to include this information in its related technical report.