

On interpretation of current specification on OFDM baseband signal generation for LTE and NB-IoT

NEC

The bottom half of the slide features a dark blue background with horizontal stripes. Several thin, curved orange lines sweep across the right side. A series of small blue squares are arranged in a descending staircase pattern on the right side.

In TS36.211 6.12,

- In case NB-IoT is operated in the cell (LTE), OFDM signal generation of LTE refers to 10.2.8, irrespective of operation mode of NB-IoT

In TS36.211 10.2.8

- OFDM signal generation of NB-IoT in stand-alone, guard-band, in-band different PCI follows the first definition
- OFDM signal generation of NB-IoT in in-band the same PCI follows the second definition with LTE signals, see the next bullet
- OFDM signal generation of LTE signal follows the second definition irrespective of the mode of supported NB-IoT carrier
 - OFDM signal generation with phase shift will be performed for in-band NB-IoT carrier (irrespective of the same PCI or different PCI)

Observation

- At least three companies read current specification as in slide 2 on OFDM signal generation of LTE signals and NB-IoT carrier
- The highlighted part in slide 2 is not in line with the intention