

Uplink Frame structure of Short TTI system

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Abstract— The study item on latency reduction techniques was considered with shorter TTI length along with reduced processing times. When TTI length is shortened, the allowed processing times should be reduced linearly to achieve optimal gains. This needs to rely on new channel design. Latency reduction techniques is important KPI. 5G requirement LTE-evo needs low latency to fulfil 5G requirements, User plane latency <0.5ms end to end, reliability 99.999% in < 1ms. There are many shorted TTI length, now days, it is discussed on symbol 2, 4, 7 length. In this paper, the frame structure supports the Legacy LTE system and low latency. UEs, NodeBs which is support the low latency system, it can support the legacy LTE system. Low latency system can support one way end to end latency 1ms.

Keyword—LTE, Low latency



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