

Motivation for new SI proposal: Enhancements to initial access and scheduling for low-latency LTE

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Background for new SI proposal:

Enhancements to initial access and scheduling for low-latency LTE

- The range of use cases for LTE has expanded beyond just broadband data
- The ongoing work item on processing time reduction and shorter TTI is starting to bring latency reduction
 - This is valuable for both data transmission and new low-latency applications
 - This addresses primarily latency of the data transmissions themselves
- In order to complete the reduction of latency in the whole system, it is also necessary to consider other aspects to ensure that there are no latency bottlenecks
 - For example, consider whether techniques submitted for NR may be adapted to bring advantages in E-UTRAN also.

Scope of new SI proposal:

Enhancements to initial access and scheduling for low-latency LTE

- Objective to identify useful techniques for reduction of latency and/or overhead, including the following areas:
 - Initial access procedures, including study of possible enhancements to the random access procedure;
 - Uplink scheduling procedures
 - Focus especially on applications involving low-latency small packet communications

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