

802.16.3 MAC Synchronization

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Purpose: The presentation is for the improvement of MAC proposals for IEEE 802.16.3 TG1, TG2, TG3, TG4 as applicable.

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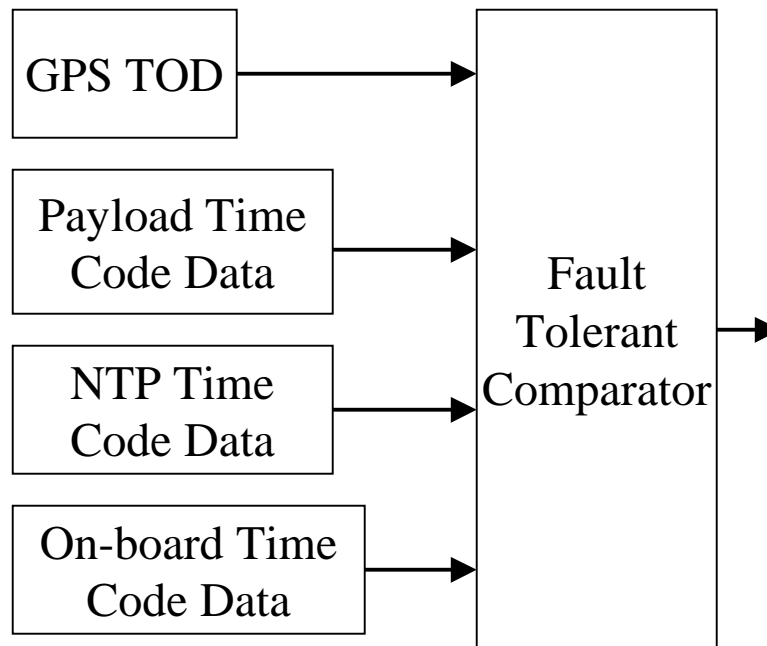
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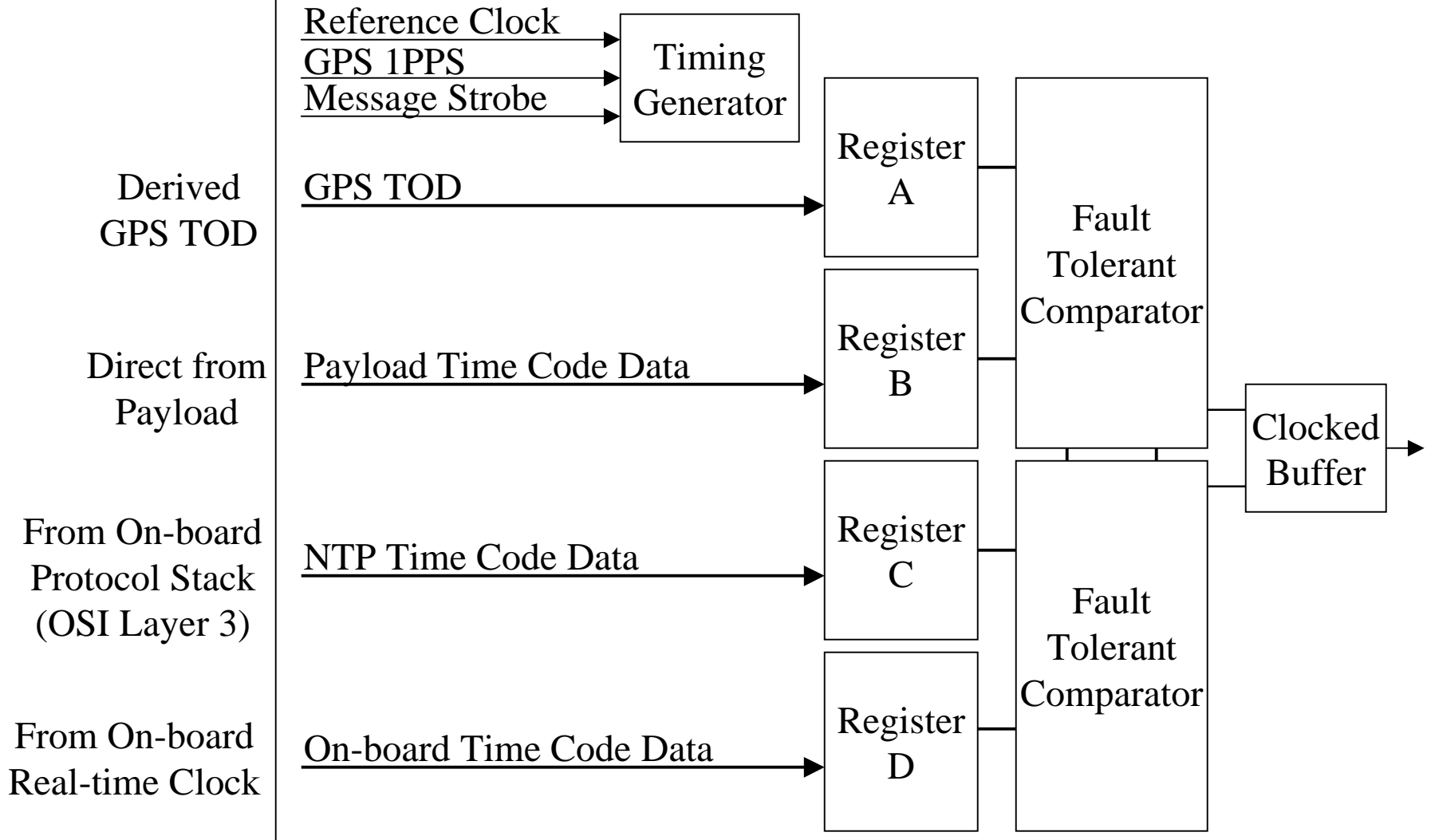
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Medium Access Control (MAC) Time-Of-Day (TOD) Sources



MAC Time-Of-Day (TOD) Synchronizer



Benefits of MAC Synchronization

- Reduced meta-stable symptoms in logic and protocol
- Adds more flexibility to scheduling, including sessions or transmissions
 - Scheduler algorithms can benefit from MAC layer synchronization to achieve enhanced call subscription, acquisition, or queuing algorithms
 - Embedded TOD may lead to reduced collisions in the physical layer
- Establishes some predictability of the chaos of random access process
- May enable more types of applications since it is a type of control mechanism