Precision Time Protocol (PTP)

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The **Precision Time Protocol (PTP)**, as defined in the IEEE-1588 standard, provides a method to precisely synchronize computers over a Local Area Network (LAN). **PTP** is capable of synchronizing multiple clocks to better than 100 nanoseconds on a network specifically designed for IEEE-1588. A Network Time Server with **PTP** is typically referred to as an “IEEE-1588 Grandmaster” or “PTP Grandmaster”. This paper describes basic principles of **PTP**, information on using dual Grandmasters, and the requirements of the network to achieve sub-100 nanosecond time synchronization.

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