



What's New 'Cliff Notes'

Equinix Precision Time 2020.1

This initial release of Equinix Precision Time delivers the features and capabilities outlined below.

Time as a Service

Equinix Precision Time provides reliable, secure, and accurate Time-as-a-Service for distributed enterprise applications. The master time sources distribute accurate time over [Equinix Fabric](#), our high-performance network backbone.

The Equinix Precision Time Source

Equinix Precision Time uses redundant GNSS (GPS) receiver-based time sources that are backed up by Rubidium atomic clocks to ensure holdover accuracy. The GNSS receiver and antennas used in the Precision Time infrastructure have the capability to receive signals from multiple GNSS constellations, providing multiple levels of redundancy. The GNSS-enabled grandmaster clocks provide time accuracy up to the sub-microsecond.

Supported Time Protocols

Equinix Precision Time supports the following time protocols:

- Precision Time Protocol (PTP)
- Network Time Protocol (NTP), supported versions:
 - NTPv3 (RFC 1305)
 - NTPv4 (RFC 5905)

Supported Network Topologies and Time Consumption Models

Equinix Precision Time distributes time to network devices over a variety of network topologies. The following consumption models are available:

- **Direct Consumption** - Recommended if you have a small number of devices to be synchronized.
- **Cascaded Consumption** - Recommended if you have thousands of devices to be synchronized to a single reference time. This model is applicable whether you have a private internal network, or multiple private networks where end devices are connected.