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## **Arista Precision Time Protocol**

Arista Precision Time Protocol. Until now, datacenter class switches have not provided a hardware based PTP implementation. This has limited the scale and precision of PTP implementations by requiring dedicated PTP hardware at every point, essentially minimizing the benefit of a common infrastructure for both data forwarding and time synchronizations.

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## **Arista Precision Time Protocol - Arista**

PTP was designed to provide precise time distribution over an Ethernet or IP network, as opposed to other timing solutions that require a discrete physical infrastructure within the data center. PTP provides a standardized, end to end precision timing implementation that can be deployed on a standard Ethernet network, either in band or out of

## **Arista Precision Timing Protocol**

Arista Precision Time Protocol. Overview. Precision timing has become increasingly important with the proliferation of low latency and high performance applications. It is especially critical in HPC or grid environments where there is a desire to correlate or synchronize events within microseconds, or measure utilization or latency with the highest accuracy.

## **Arista Precision Time Protocol**

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The Precision Time Protocol (PTP) provides a greater degree of clock accuracy for networked devices, allowing clocks to be synchronized locally in increments of less than a microsecond. PTP uses a master-slave hierarchy similar to that used by NTP.

## **Section 6.2: System Clock and Time Protocols - Arista**

Arista Precision Time Protocol Until now, datacenter class switches have not provided a hardware based PTP implementation. This has limited the scale and precision of PTP implementations by requiring dedicated PTP hardware at every point, essentially minimizing the benefit of a common infrastructure for both data forwarding and time synchronizations.

## **Technology Bulletins - Arista**

6.2.5 Precision Time Protocol (PTP) The Precision Time Protocol (PTP) provides a great degree of clock accuracy for networked devices, allowing clocks to be synchronized

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locally in increments of less than a microsecond. PTP uses a master-slave hierarchy similar to that used by NTP.

## **Administering the Switch - arista.com**

Arista's hardware derived Precision Time Protocol solution provides a robust mechanism for accurate in-band time distribution in high performance environments. Offering both Boundary and Transparent Clock modes, the versatile 7150 enables timing networks to scale independently of Grand Master capacity, maintaining accuracy approaching that of a dedicated out-of-band platform.

## **Arista 7150 Series - Ethernet Spine Switch - Datasheet ...**

Precision Time Protocol (IEEE1588) is an alternative to the popular Network Time Protocol (NTP), a means of using the existing IP network infrastructure to distribute highly accurate time-of-day enabling multiple devices to synchronize

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their clocks to a central source (the Grand Master (GM)).

## **Arista 7150 Series: Q&A**

The Precision Time Protocol (PTP) is a protocol used to synchronize clocks throughout a computer network. On a local area network, it achieves clock accuracy in the sub-microsecond range, making it suitable for measurement and control systems.

## **Precision Time Protocol - Wikipedia**

Precision time protocol (PTP) is a widely adopted protocol for delivery of precise time over a computer network. A complete PTP system includes PTP functionality in network equipment and hosts. PTP may be implemented in hardware, software or a combination of both. PTP is implemented in end systems and in PTP-aware networking hardware.

## **List of PTP implementations - Wikipedia**

"Smarter Timing Solutions" The Precision

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Time Protocol, 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.

## **WHITE PAPER Precision Time Protocol**

Introduction Accurate packet timestamps are essential for network event correlation and performance analysis. The Arista 7150S provides hardware timestamping with nanosecond granularity and  $\leq 10\text{ns}$  precision. Timestamping is applied in hardware on all packets, at line rate in parallel.

## **Arista EOS Central - Tag - timestamp**

Arista switches enable high precision time distribution directly in the data path using IEEE1588 Precision Time

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Protocol (PTP). This document provides information about new platforms those now support PTP. Platform compatibility The following platforms now support IEEE1588 Boundary and Transparent clock mode of operation.

## **Arista EOS Central - Author - Avininder Grewal**

Arista switches enable high precision time distribution directly in the data path using IEEE1588 Precision Time Protocol (PTP). This document provides information about new platforms those now support PTP. Platform compatibility The following platforms now support IEEE1588 Boundary and Transparent clock mode of operation.

## **Arista EOS Central - Tag - EOS-4.15.2F**

With IP, Precision Time Protocol (PTP) is leveraged to distribute time. For details on how PTP works on an Ethernet switch, refer to this white paper on IEEE 1588 PTP on the Cisco Nexus ® 3100



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Platform and 9000 Series Switches.

## **Precision Time Protocol for Timing in IP Fabric for Media ...**

Precision Time Protocol (IEEE1588) is an alternative to the popular Network Time Protocol (NTP), a means of using the existing IP network infrastructure to distribute highly accurate time-of-day enabling multiple devices to synchronize their clocks to a central source (the Grand Master (GM)).

## **Arista 7150S Series: Q&A - Corporate Armor**

Display Filter Reference: Precision Time Protocol (IEEE1588) Protocol field name: ptp Versions: 1.0.0 to 3.2.5 Back to Display Filter Reference. Field name Description Type ... network protocol: Unsigned integer, 2 bytes: 1.0.0 to 3.2.5: ptp.v2.mm.nextjumpSeconds: Time of next jump (seconds) Unsigned integer, 8 bytes:

## **Display Filter Reference: Precision**

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## **Time Protocol (IEEE1588)**

Arista Precision Time Protocol how the Arista 7150 data center switch enables high precision time distribution directly in the data path, while improving the scale, precision, and cost of a precise time infrastructure PTP Baseline requirements: A Solid Hardware Foundation The Arista

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