



System Management Overview

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Software Image

The Cisco NX-OS software consists of one NXOS software image. This image runs on all Cisco Nexus 3550-T switches.

Precision Time Protocol

Precision Time Protocol (PTP) is a time synchronization protocol defined in IEEE 1588 for nodes distributed across a network. With PTP, it is possible to synchronize distributed clocks with an accuracy of less than 1 microsecond via Ethernet networks. PTP is supported on IPv4 multicast, two-step master, version-2 only with boundary clock functionality.

Cisco Discovery Protocol

You can use the Cisco Discovery Protocol (CDP) to discover and view information about all Cisco equipment that is directly attached to your device. CDP runs on all Cisco-manufactured equipment including routers, bridges, access and communication servers, and switches. CDP is media and protocol independent, and gathers the protocol addresses of neighboring devices, discovering the platform of those devices. CDP runs over the data link layer only. Two systems that support different Layer 3 protocols can learn about each other.

Link Layer Discovery Protocol

Link Layer Discovery Protocol (LLDP) is a vendor-neutral, one-way device discovery protocol that allows network devices to advertise information about themselves to other devices on the network. This protocol runs over the data-link layer, which allows two systems running different network layer protocols to learn about each other. You can enable LLDP globally or per interface.

Secure Erase

The Secure Erase feature erases all customer information for Nexus 3550-T switches. Secure Erase is an operation to remove all the identifiable customer information on Cisco NX-OS devices in conditions of product removal due to Return Merchandise Authorization (RMA), or upgrade or replacement, or system end-of-life.

High Precision Timestamping

The High Precision Timestamping (HPT) feature enables high-precision timestamping on packets ingressing on a Cisco Nexus N3550-T switch. The time-stamp corresponds to the time the packet has arrived on a N3550-T front-panel port. Timestamping is supported for data packets going through the fabric. The feature can be enabled on any egress port. Also known as Rx timestamping.

Switched Port Analyzer

You can configure an Ethernet Switched Port Analyzer (SPAN) to monitor traffic in and out of your device. The SPAN features allow you to duplicate packets from source ports to destination ports.