



Configuring Cisco TrustSec

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Information about Cisco TrustSec

Cisco TrustSec provides security improvements to Cisco network devices based on the capability to strongly identify users, hosts, and network devices within a network. TrustSec provides topology-independent and scalable access controls by uniquely classifying data traffic for a particular role. TrustSec ensures data confidentiality and integrity by establishing trust among authenticated peers and encrypting links with those peers.

The key component of Cisco TrustSec is the Cisco Identity Services Engine (ISE). Cisco ISE can provision switches with TrustSec Identities and Security Group ACLs (SGACLs), though these may be configured manually on the switch.

Cisco TrustSec Features

The table below lists the Cisco TrustSec features implemented on Cisco TrustSec-enabled Catalyst 2960-X and 2960-XR Series Switches:

| Cisco TrustSec Feature | Description |
|----------------------------------|--|
| Endpoint Admission Control (EAC) | EAC is an authentication process for an endpoint user or a device connecting to the TrustSec domain. Usually EAC takes place at the access level switch. Successful authentication and authorization in the EAC process results in Security Group Tag assignment for the user or device. Currently EAC can be 802.1X, MAC Authentication Bypass (MAB), and Web Authentication Proxy (WebAuth). |

| Cisco TrustSec Feature | Description |
|-----------------------------|--|
| SGT Exchange Protocol (SXP) | Security Group Tag Exchange Protocol (SXP). With SXP, devices that are not TrustSec-hardware-capable can receive SGT attributes for authenticated users and devices from the Cisco Identity Services Engine (ISE) or the Cisco Secure Access Control System (ACS). The devices can then forward a sourceIP-to-SGT binding to a TrustSec-hardware-capable device will tag the source traffic for SGACL enforcement. |

Feature Information for Cisco TrustSec

Table 1: Feature Information for Cisco TrustSec

| Feature Name | Release | Feature Information |
|-----------------|-------------------------|---|
| SXPv1 and SXPv2 | Cisco IOS XE 15.0(2)EX | SXP is introduced on the Catalyst 2960-X switch. |
| SXPv1 and SXPv2 | Cisco IOS XE 15.0(2)EX1 | SXP is introduced on the Catalyst 2960-XR switch. |