Cisco TrustSec® Platform Support Matrix

System Component	Platform	Solution Minimum Version	Solution-Level Validated Version	SGT Classification	Control Plane Propagation (SXP)	SGT over Ethernet (Inline SGT)	SGT over MACsec	SGT over (for WAN)	SGT Enforcement
Cisco Identity Services Engine	Cisco ISE 3315, 3355, 3395, 3415, 3495 Appliances and VMware	ISE 1.0	ISE 1.2 Patch 1 (Requires Advanced License)	-	-	-	-	-	-
Cisco Catalyst® 2000 Series	Cisco Catalyst 2960-Plus Series (LAN Base required)	IOS® 15.2(1)E	-	Dynamic, IP-SGT, VLAN-SGT	SXP (speaker only)	No	No	No	No
	Cisco Catalyst 2960C Series (LAN Base required)	IOS 15.0(1)SE2	IOS 15.0(2)SE2	Dynamic, IP-SGT, VLAN-SGT	SXP (speaker only)	No	No	No	No
	Cisco Catalyst 2960S/SF Series (LAN Base required)	IOS 15.0(1)SE2	IOS 15.0(2)SE2	Dynamic, IP-SGT, VLAN-SGT	SXP (speaker only)	No	No	No	No
	Cisco Catalyst 2960X/XR Series (LAN Base required)	IOS 15.0(2)EX1	-	Dynamic, IP-SGT, VLAN-SGT	SXP (speaker only)	No	No	No	No
Cisco Catalyst 3000 Series	Cisco Catalyst 3560-E, 3750-E(IP Base required)	IOS 15.0(1)SE2	IOS 15.0(2)SE2	Dynamic, IP-SGT, VLAN-SGT	SXP (S/L)	No	No	No	No
	Cisco Catalyst 3560C Series (IP Base required)	IOS 15.0(1)SE2	IOS 15.0(2)SE2	Dynamic, P-SGT, VLAN-SGT	SXP (S/L)	No	No	No	No
	Cisco Catalyst 3560-X, 3750-X (IP Base required)	IOS 15.0(1)SE2	IOS 15.0(2)SE4	Dynamic, IP-SGT, VLAN-SGT	SXP (S/L)	Yes	Yes (with C3KX-SM-10G)	No	SGACL
	Cisco Catalyst 3850	-	-	No	No	No	No	No	No
Cisco Catalyst 4000 Series	Cisco Catalyst 4500 (Sup6-E and Sup6L-E) (IP Base required)	IOS15.1.(1)SG	IOS 15.1(1)SG	Dynamic, IP-SGT, VLAN-SGT	SXP (S/L)	No	No	No	No
	Cisco Catalyst 4500 (Sup7-E and Sup7L-E) (IP Base required)	IOS-XE 3.3.0SG	IOS-XE 3.3.0SG	Dynamic, IP-SGT, VLAN-SGT	SXP (S/L)	No	No	No	No

System Component	Platform	Solution Minimum Version	Solution-Level Validated Version	SGT Classification	Control Plane Propagation (SXP)	SGT over Ethernet (Inline SGT)	SGT over MACsec	SGT over (for WAN)	SGT Enforcement
Cisco Catalyst 6500 Series	Cisco Catalyst 6500 (Sup-32 and Sup-720) (IP Base required)	IOS 12.2(33)SXJ2	IOS 12.2(33)SXJ2	Dynamic, IP-SGT	SXP (S/L)	No	No	No	No
	Cisco Catalyst 6500 (Sup-2T) (IP Base required)	IOS 15.0(1)SY1	IOS 15.1(1)SY1	Dynamic, IP-SGT, VLAN-SGT, Subnet-SGT, L3IF-SGT	SXP (S/L)	Yes (requires WS-X69xx line card)	Yes (with Sup2T built-in ports and WS-X69xx line card)	No	SGACL
Cisco Connected Grid Routers	Cisco CGR 2010 Routers	IOS 15.3(2)T	IOS 15.3(2)T	Dynamic, IP-SGT, VLAN-SGT	SXP (S/L)	No	No	SGT over GETVPN	SG Firewall
Cisco Industrial Ethernet Switches	Cisco IE 2000	IOS 15.0(2)EB	IOS 15.0(2)EB	No	No	No	No	No	No
Cisco Wireless Controllers	Cisco 5500 Series and 2500 Series, Cisco Wireless Services Module 2 (WiSM2), Cisco Wireless LAN Controller Module for Integrated Services Routers G2 (WLCM2) **Note: WLC7500/8500/vWLC do not support TrustSec**	AirOS 7.2 MR1	AirOS 7.4.110	Dynamic	SXP (speaker only)	No	No	No	No
	Cisco WLC 5760	IOS-XE 3.2.1 SE	IOS-XE 3.2.1 SE	No	No	No	No	No	No
Cisco Nexus® 7000/2000	All Cisco Nexus 7000 line cards and chassis	NX-OS 6.1(1) (SGT support in base license from 6.1)	NX-OS 6.2(2)	Static IP-SGT, L2IF-SGT, Port Profile-SGT	SXP (S/L)	Yes	Yes (All line cards except F1 and F2 line cards)	No	SGACL
Cisco Nexus 5000/2000	Cisco Nexus 5548P, 5596UP	NX-OS 5.1(3)N1	NX-OS 5.1(3)N2 (1c)	L2IF-SGT	SXP (speaker only)	Yes (No MACsec option)	No	No	SGACL
Cisco Nexus 1000v	Cisco Nexus 1000v	NX-OS 4.2(1)SV2(1.1) with Advanced feature license	NX-OS 4.2(1)SV2(1.1) with Advanced feature license	IP-SGT, Port Profile to SGT	SXP (speaker only)	No	No	No	No

System Component	Platform	Solution Minimum Version	Solution-Level Validated Version	SGT Classification	Control Plane Propagation (SXP)	SGT over Ethernet (Inline SGT)	SGT over MACsec	SGT over (for WAN)	SGT Enforcement
Cisco Integrated Services Router (ISR) G2	Cisco ISR 890, 1900, 2900, 3900 Series	IOS 15.2(2)T	IOS 15.3(2)T	Dynamic, IP-SGT	SXP (S/L)	Only C2951 and C3945	No	SGT over GETVPN	SG Firewall
Cisco ASR 1000 Series Aggregation Services Routers	Cisco ASR 1000 Series Router Processor 1 or 2 (RP1/RP2) ASR 1001, 1002, 1004, 1006, and 1013 Routers with ESP (10, 20, or 40 Gbps) and SIP (10/40)	IOS-XE 3.5	IOS-XE 3.9	Static IP-SGT	SXP (S/L)	Yes	No	SGT over GETVPN	SG Firewall
Cisco ASA 5500 and 5500-X Series	Cisco ASA 5505, 5510, 5520, 5540, 5550, 5580, 5585-X, ASA-SM and 5512-X, 5515-X, 5525-X, 5545-X, 5555-X	ASA 9.0.1 ASDM 7.0.1	ASA 9.1 ASDM 7.0.1	-	SXP (S/L)	No	No	No	SG Firewall

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Solution Miniumum Version indicates the earliest software or OS version for each platform that has all the necessary features for TrustSec solution support.

Dynamic classification includes SGT classification based on 802.1X Authentication, MAC Authentication Bypass (MAB), or Web Authentication.

For SXP roles, "S" represents "Speaker" and "L" represents "Listener."

"IP-SGT," "VLAN-SGT," "Subnet-SGT," "Port Profile-SGT," "L2IF-SGT," and "L3IF-SGT" all use the static classification method.

For TrustSec classification, propagation, and enforcement, an IP Base K9 license is required for Cisco Catalyst 3560, 3560-E, 3750, 3750-E, 3560-C, 3560-X, 3750-X, 4500 Sup6(L)-E, 4500 Sup7(L)-E, 6500 Sup720, and 6500 Sup2T.

The ISR Base/K9 license is required for Secure Access features. For TrustSec classification, propagation, and enforcement functionalities, an ISR SEC/K9 license is required.

An ASR1000 SEC-FW license is required for ASR 1000 Series routers for all TrustSec functionalities.

Cisco Secure Access Platform Support Matrix

System Component	Platform	Solution Minimum Version	Solution-Level Validated Version	Secure Access Features	Device Sensor
Cisco Identity Services Engine	Cisco ISE 3315, 3355, 3395, 3415, 3495, Appliances and VMware	ISE 1.0	ISE 1.2 Patch 1	-	-
Cisco Catalyst® 2000 Series	Cisco Catalyst 2960-Plus Series	IOS 15.2(1)E	-	Yes (LAN Base)	No
	Cisco Catalyst 2960C Series	IOS 15.0(1)SE2	IOS 15.0(2)SE2	Yes (LAN Base)	No
	Cisco Catalyst 2960S/SF Series	IOS 15.0(1)SE2	IOS 15.0(2)SE2	Yes (LAN Base)	No
	Cisco Catalyst 2960X/XR Series	IOS 15.0(2)EX1	-	Yes (LAN Base)	No

System Component	Platform	Solution Minimum Version	Solution-Level Validated Version	Secure Access Features	Device Sensor
Cisco Catalyst 3000 Series	Cisco Catalyst 3560, 3750	IOS12.2.55SE3[*]	IOS12.2.55SE3[*]	Yes	Yes
	Cisco Catalyst 3560G/-E, 3750G/-E	IOS 15.0(1)SE2	IOS 15.0(2)SE2	Yes	Yes
	Cisco Catalyst 3560C Series	IOS 15.0(1)SE2	IOS 15.0(2)SE2	Yes	Yes
	Cisco Catalyst 3560-X, 3750-X	IOS 15.0(1)SE2	IOS 15.0(2)SE4	Yes	Yes
	Cisco Catalyst 3850	IOS-XE 3.2.2SE	IOS-XE 3.2.2SE	Yes	No
Cisco Catalyst 4000 Series	Cisco Catalyst 4500 (Sup6-E and Sup6L-E)	IOS 15.1(1)SG	IOS 15.1(1)SG	Yes	Yes
	Cisco Catalyst 4500 (Sup7-E and Sup7L-E)	IOS-XE 3.3.0SG	IOS-XE 3.3.0SG	Yes	Yes
Cisco Catalyst 6500 Series	Cisco Catalyst 6500 (Sup-32 & Sup-720)	IOS 12.2(33)SXJ2	IOS 12.2(33)SXJ3	Yes	No
	Cisco Catalyst 6500 (Sup-2T)	IOS 15.0(1)SY1	IOS 15.0(1)SY1	Yes	No
Cisco Industrial Ethernet Switches	Cisco IE 2000 Series, IE 3000 Series	IOS 15.0(2) EB	IOS 15.0(2) EB	Yes	No
Cisco Connected Grid Routers	Cisco CGR 2010 Series	IOS 15.3(2)T	IOS 15.3(2)T	Yes	No
	Cisco CGS 2520	IOS 15.0(2)ED	IOS 15.0(2)ED	Yes	No
Cisco Wireless Controllers	Cisco Flex 7500 Series, Cisco 5500 Series and 2500 Series, Cisco Wireless Services Module 2 (WiSM2), Cisco Wireless LAN Controller Module for Integrated Services Routers G2 (WLCM2)	AirOS 7.2 MR1	AirOS 7.4 AirOS 7.3	Y[**]	No
	Cisco WLC 5760	IOS-XE3.2.1SE	IOS-XE 3.2.1 SE	-	No
Cisco Integrated Services Router (ISR) G2	Cisco ISR 890, 1900, 2900, 3900 Series	IOS 15.2(2)T	IOS 15.3(2)T	Y[***]	No
Cisco AnyConnect® Secure Mobility Client	Software only	AnyConnect 3.0	AnyConnect 3.1	-	No
Supported Client Supplicant	OS embedded supplicants	-	Windows 7, XP, Vista, and Mac OS 10.6.5 and 10.7.1	-	-
Cisco Unified IP Phones	Cisco Unified IP Phones, including the following models: 791x, 794x, 796x, 690x, 691x, 692x, 694x, and 696x	-	Skinny Client Control Protocol (SCCP) Software, Version 9.2(1) SR1	-	-

System-level validated versions do not always represent the latest available platform version. Please visit http://www.cisco.com to find the latest version.

Solution Minimum Version indicates version of code that has all the necessary feature for solution, and does not indicate that this is the minimum version for individual feature.

[*] Cisco Catalyst 3560 and 3750 do not support new features supported in IOS15.0 train.

[*] The Secure Access feature set for WLC AirOS 7.x is different from the feature set for Catalyst switches.

[**] The Secure Access feature set for ISR G2 Routers is different from the feature set for Catalyst switches. Please refer to table below for known limitation for ISRG2 platforms.

Baseline Secure Access Functionalities

Following is a list of Cisco IOS Software-based switch Secure Access functionalities validated in the TrustSec program.

Cisco TrustSec Release	Secure Access Feature
Cisco TrustSec 1.99	802.1X Authentication MAC Authentication Bypass Open Access Flexible Authentication Single Host Mode Multi Host Mode Multi Domain Authentication Mode (MDA) Multi Authentication Mode VLAN Assignment Downloadable ACL Inactivity Timer (MAB/802.1X) Local Web Authentication (LWA) Wake on LAN CDP second port disconnect Integration with DAI, IPSG, Port Security MDA with Dynamic Voice VLAN Assignment Filter ID RADIUS Supplied Timeout Guest VLAN Authentication Failed VLAN RADIUS Accounting Critical Port/Inaccessible Authentication Bypass (IAB) for Data Domain Conditional Logging/Debugging on Per-Port Basis
Cisco TrustSec 2.0	Change of Authorization (Catalyst 2000, 3000, and 6000 Series; Wireless LAN Controller) Central Web Authentication - CWA (URL-Redirect) with ISE
Cisco TrustSec 2.1	Device Sensor (Catalyst 3000 and 4000 Series; Wireless LAN Controller) 802.1AE MACsec + MKA (Cat3K-X, Cat4K-Sup7E) MAC Move MAC Replace Downloadable ACL Enhancement Critical Port/IAB for Voice Domain (Catalyst 2000, 3000, 4000, and 6000 Series) Change of Authorization (Catalyst 4000 Series) CoA with CWA (Wireless LAN Controller)

** ISR G2 Secure Access features have the following restrictions:

Secure Access Feature	Restriction
IEEE 802.1X with ACL Enhancements	Only available on non-800 ISR G2
IEEE 802.1X/MAB with Downloadable ACL	Only available on non-800 ISR G2
IEEE 802.1X/MAB with Filter-ID	Only available on non-800 ISR G2
IEEE 802.1X/MAB Port ACL enhancement	Only available on non-800 ISR G2
IEEE 802.1X/MAB with URL redirect	Only available on non-800 ISR G2
IEEE 802.1X/MAB with Per-User ACL Support	Only available on non-800 ISR G2
Web Authentication with URL Redirect	Not available on all ISR G2 platforms
Inactivity Aging	Not available on all ISR G2 platforms
IEEE 802.1X User Distribution	Not available on all ISR G2 platforms
IEEE 802.1X Supplicant Support for MD5	Not available on all ISR G2 platforms

Secure Access Feature	Restriction
IEEE 802.1x Voice Aware Security Violations	Not available on all ISR G2 platforms
MAC Move Support	Not available on all ISR G2 platforms
IEEE 802.1X Readiness Check	Not available on all ISR G2 platforms

Cisco IEEE802.1AE (MACsec) Platform Support Matrix

System Component	Platform	Solution Minimum Version	Solution Level Validated Version	MACsec for Endpoint	Switch to Switch Encryption
Cisco Identity Services Engine	Cisco ISE 3315, 3355, 3395, 3415, 3495, Appliances and VMware	ISE 1.0	ISE 1.2 Patch 1 (Base License required)	ISE (required)	ISE (optional)
Cisco AnyConnect® Supplicant	Network Access Module (NAM) - Hardware acceleration with Intel 82567LM Intel 82579LM	AnyConnect 3.0	AnyConnect 3.0	AnyConnect (required)	N/A
Cisco Catalyst® 3000 Series	Catalyst 3560C Series WS-C3560CG-8TC-S WS-C3560CG-8PC-S WS-C3560CDP-8PT-S	IOS 15.0(1) SE2	IOS 15.0(2)SE4	Yes (MKA*)	Yes (SAP**)
	Catalyst 3560-X, 3750-X - Requires C3KX-SM-10G for uplink (C3KX-NM-XX does not support MACsec)	IOS 15.0(1) SE2	IOS 15.0(2)SE4	Yes (MKA)	Yes (SAP)
Cisco Catalyst 4000 Series	Catalyst 4500 (Sup7-E and Sup7L-E) - Requires following line cards WS-X4712-SFP+E WS-X4748-UPOE+E WS-X4748-RJ45V+E WS-X4748-RJ45-E	IOS-XE 3.3.0SG	IOS-XE 3.3.0SG	Yes (MKA)	Yes (SAP)
Cisco Catalyst 6500 Series	Catalyst 6500 (Sup-2T) - Requires following line cards WS-X6908-10G-2T WS-X6908-10G-2TXL WS-X6904-40G-2T WS-X6904-40G-2TXL	IOS 15.0(1)SY1	IOS 15.1(1)SY1	No	Yes (SAP)
Cisco Nexus® 7000 Series	Nexus 7x00 (Sup1, 2, and 2e) - Requires following line cards N7K-M108X2-12L N7K-M132XP-12 N7K-M132XP-12L N7K-M148GT-11 N7K-M148GT-11L N7K-M148GS-11 N7K-M148GS-11L N7K-M202CF-22L N7K-M206FQ-23L N7K-M224XP-23L N7K-F248XT-25E (All Ports) N7K-F248XP-25E (port 41~48)	NX-OS 5.2.4 NX-OS 6.1.1	NX-OS 6.2(2)	No	Yes (SAP)

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Solution Minimum Version indicates version of code that has all the necessary feature for solution, and does not indicate that this is the minimum version for individual feature.

* MKA = MACsec Key Agreement Protocol specified in IEEE802.1X-2010.

** SAP = Security Association Protocol developed by Cisco.

A LAN Base K9 License is required for Cisco Catalyst 2960 Switches for all Secure Access features. 2960 LAN Lite is supported but not recommended with ISE 1.2 due to limited feature support. LAN Lite supports only 802.1X and VLAN assignments.