



## Cisco TrustSec Platform and Capability Matrix

Cisco TrustSec uniquely builds upon your existing identity-aware infrastructure by enforcing segmentation and access control policies in a scalable manner using the capabilities detailed below:

This table lists latest IOS, IOS-XE, and NX-OS versions that support the TrustSec features. This version is aligned with TrustSec 5.2 Solution validation. Solution-Level validated versions may not always represent the latest available firmware versions on given platforms.

| Platform                       |  | Capabilities  |  |                    |                 | Note  |                            |              |
|--------------------------------|--|---|--|--------------------|-----------------|---|----------------------------|--------------|
| Categories                     | Platform Name  | Security Group Tag (SGT) Classification & Mapping       | SGT Exchange Protocol (SXP) Support (role / version) | Inline SGT Tagging | SGT Enforcement | Firmware Version to support "all" capabilities listed | Solution Validated Version | License      |
| Cisco Identity Services Engine | Cisco ISE 3415 and 3495 Appliance and VMware                 | IP-to-SGT mapping & provisioning to switches            |  |                    |                 | Cisco ISE 1.2 Patch 1                                 | Cisco ISE 1.3 Patch1       | Base License |
| Cisco Catalyst® 2000 Series    | Cisco Catalyst 2960 Series Switches (includes 2960G, 2960PD) |   |  |                    |                 |   |                            |              |
|                                | Cisco Catalyst 2960-Plus Series Switches                     | 802.1X MAB Web Auth IP-to-SGT VLAN-to-SGT Subnet-to-SGT | Speaker (version 4)                                  |                    |                 | Cisco IOS 15.2(2)E                                    | -                          | LAN Base K9  |
|                                | Cisco Catalyst 2960-C Series                                 | 802.1X MAB WEB AUTH IP-to-SGT VLAN-to-SGT Subnet-to-SGT | Speaker (version 4)                                  |                    |                 | Cisco IOS 15.2(2)E                                    | -                          | LAN Base K9  |
|                                | Cisco Catalyst 2960-CX Series                                | 802.1X MAB WEB AUTH IP-to-SGT VLAN-to-SGT Subnet-to-SGT | Speaker (version 4)                                  |                    |                 | Cisco IOS 15.2(3)E                                    | -                          | LAN Base K9  |
|                                | Cisco Catalyst 2960-S and 2960-SF Series                     | 802.1X MAB WEB AUTH IP-to-SGT VLAN-to-SGT Subnet-to-SGT | Speaker (version 4)                                  |                    |                 | Cisco IOS 15.2(2)E                                    | Cisco IOS 15.0(2)SE 2      | LAN Base K9  |

| Platform                   |  | Capabilities  |  |  |                 | Note  |                                |             |
|----------------------------|--|---|--|--|-----------------|---|--------------------------------|-------------|
| Categories                 | Platform Name                                      | Security Group Tag (SGT) Classification & Mapping   | SGT Exchange Protocol (SXP) Support (role / version) | Inline SGT Tagging   | SGT Enforcement | Firmware Version to support "all" capabilities listed | Solution Validated Version     | License     |
|                            | Cisco Catalyst 2960-X and 2960-XR Series           | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Subnet-to-SGT                               | Speaker (version 4)                                  |  |                 | Cisco IOS 15.2(2)E                                    | Cisco IOS 15.0(2)EX4           | LAN Base K9 |
| Cisco Catalyst 3000 Series | Cisco Catalyst 3560-E and 3750-E Series            | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT  | Speaker Listener (version 2)                         |  |                 | Cisco IOS 15.0(2)SE5                                  | Cisco IOS 15.0(2)SE5           | IP Base K9  |
|                            | Cisco Catalyst 3560-C/CG Series                    | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Subnet-to-SGT                               | Speaker Listener (version 4)                         |  |                 | Cisco IOS 15.2(2)E                                    | Cisco IOS 15.0(1)SE2           | IP Base K9  |
|                            | Cisco Catalyst 3560-CX Series                      | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Subnet-to-SGT                               | Speaker Listener (version 4)                         |  |                 | Cisco IOS 15.2(3)E                                    | -                              | IP Base K9  |
|                            | Cisco Catalyst 3560-X and 3750-X Series            | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Subnet-to-SGT                               | Speaker Listener (version 4)                         | SGT over Ethernet, SGT over MACsec (with built-in ports & C3KX-SM-10G) | SGACL           | Cisco IOS 15.2(2)E                                    | Cisco IOS 15.2(3)E             | IP Base K9  |
|                            | Cisco Catalyst 3650 and 3850 Series                | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet to SGT<br>L3IF-to-SGT | Speaker Listener (version 4)                         | SGT over Ethernet, SGT over MACsec                                     | SGACL           | Cisco IOS-XE 3.6.0SE                                  | Cisco IOS-XE 3.3.4SE<br>3.7.0E | IP Base K9  |
| Cisco Catalyst 4000 Series | Cisco Catalyst 4500 Supervisor Engine 6-E and 6L-E | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT   | Speaker Listener (version 4)                         |  |                 | Cisco IOS 15.1.(1)SG                                  | Cisco IOS 15.1.(1)SG           | IP Base K9  |
|                            | Cisco Catalyst 4948 Series                         | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT   | Speaker Listener (version 4)                         |  |                 | Cisco IOS 15.1.(1)SG                                  | -                              | IP Base K9  |

| Platform                   |   | Capabilities   |  |  |                 | Note  |   |            |
|----------------------------|---|--|--|--|-----------------|---|---|------------|
| Categories                 | Platform Name   | Security Group Tag (SGT) Classification & Mapping  | SGT Exchange Protocol (SXP) Support (role / version)                 | Inline SGT Tagging   | SGT Enforcement | Firmware Version to support "all" capabilities listed | Solution Validated Version              | License    |
|                            | Cisco Catalyst 4500 Supervisor Engine 7-E and 7L-E      | 802.1X<br>MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet to SGT<br>L3IF-to-SGT             | Speaker Listener (version 4)   | Yes* (See footnote for list of supported line cards)                     | SGACL           | Cisco IOS XE 3.5.1E                                   | Cisco IOS XE 3.5.1E                     | IP Base K9 |
|                            | Cisco Catalyst 4500 Supervisor Engine 8-E               | 802.1X<br>MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet to SGT (SRC & DST)<br>L3IF-to-SGT | Speaker Listener (version 4)   | SGT over Ethernet, SGT over MACsec                                       | SGACL           | Cisco IOS XE 3.6.0E                                   | Cisco IOS-XE 3.3.0XO                    | IP Base K9 |
|                            | Cisco Catalyst 4500-X Series                            | 802.1X<br>MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet to SGT<br>L3IF-to-SGT             | Speaker Listener (version 4)   | SGT over Ethernet, SGT over MACsec                                       | SGACL           | Cisco IOS XE 3.5.1E                                   | Cisco IOS XE 3.5.1E                     | IP Base K9 |
| Cisco Catalyst 6500 Series | Cisco Catalyst 6500 Series Supervisor Engine 32 and 720 | 802.1X<br>MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT (15.2)<br>Port-to-SGT(15.2)<br>Subnet-to-SGT(15.2)         | Speaker Listener (version 4 - 15.1(2)SY3 , version 2 - 12.2(33)SX l) |  |                 | Cisco IOS 15.1(2)SY3 12.2(33)SX J2                    | Cisco IOS 12.2(33)SX J2                 | IP Base K9 |
|                            | Cisco Catalyst 6500 Series Supervisor Engine 2T         | 802.1X<br>MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet-to-SGT<br>L3IF-to-SGT             | Speaker Listener (version 4)   | SGT over Ethernet, SGT over MACsec (requires WS-X6900 line card)         | SGACL           | Cisco IOS 15.1(2)SY1                                  | Cisco IOS 15.1(2)SY 4                   | IP Base K9 |
|                            | Cisco Catalyst 6800 and 6800ia                          | 802.1X<br>MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet-to-SGT<br>L3IF-to-SGT             | Speaker Listener (version 4)   | SGT over Ethernet, SGT over MACsec (requires WS-X6900 for Catalyst 6807) | SGACL           | Cisco IOS 15.1(2)SY1                                  | Cisco IOS 15.0(1)SY 1 (Catalyst 6880-X) | IP Base K9 |

| Platform                                  |   | Capabilities   |  |  |                 | Note  |                            |  |
|---|---|--|--|--|-----------------|---|----------------------------|--|
| Categories                                | Platform Name   | Security Group Tag (SGT) Classification & Mapping                                  | SGT Exchange Protocol (SXP) Support (role / version)   | Inline SGT Tagging                                 | SGT Enforcement | Firmware Version to support "all" capabilities listed | Solution Validated Version | License                                    |
| Cisco Connected Grid Routers and Switches | Cisco 2010 Connected Grid Routers   | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT                                 | Speaker Listener (version 4)   | SGT over GETVPN or IPsecVPN (No SGT over Ethernet) | SG Firewall     | Cisco IOS 15.4(1)T                                    | Cisco IOS 15.4(1)T         |  |
|   | Cisco 2500 Series Connected Grid Switches   | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet to SGT | Speaker Listener (version 3)   |  |                 | Cisco IOS 15.0(2)EK1                                  | Cisco IOS 15.0(2)EK1       |  |
| Cisco Industrial Ethernet Switches        | Cisco IE 2000 Series  | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet to SGT | Speaker Listener (version 3)   |  |                 | Cisco IOS 15.2(1)EY                                   | -                          | LAN Lite License does not support TrustSec |
|   | Cisco IE 3000 Series  | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet to SGT | Speaker Listener (version 3)   |  |                 | Cisco IOS 15.2(1)EY                                   | Cisco IOS 15.2(1)EY        | LAN Lite License does not support TrustSec |
|   | Cisco IE 4000 Series  | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet to SGT | Speaker Listener (version 3)   |  |                 | Cisco IOS 15.2(2)EA                                   | -                          | LAN Lite License does not support TrustSec |
| Cisco Wireless Controllers                | Cisco Wireless LAN Controller 5500 Series and 2500 Series; Cisco Wireless Services Module 2 (WiSM2) | 802.1X MAB<br>WEB AUTH   | Speaker (version 2)<br><br>FlexConnect Central Switching Mode and Centralized mode support SXP (AirOS8.0)<br><u>Local Switch Mode does not support SXP</u> |  |                 | Cisco AirOS 7.4.121.0<br>7.6.130.0                    | Cisco AirOS 8.0.100.0      |  |
|   | Cisco Wireless LAN  |  |  |  |                 |   |                            |  |

| Platform                          |   | Capabilities   |  |   |                 | Note   |   |   |
|-----------------------------------|---|--|--|---|-----------------|--|---|---|
| Categories                        | Platform Name   | Security Group Tag (SGT) Classification & Mapping  | SGT Exchange Protocol (SXP) Support (role / version) | Inline SGT Tagging  | SGT Enforcement | Firmware Version to support "all" capabilities listed          | Solution Validated Version              | License                                   |
|                                   | Controller 7500, 8500 and vWLC  |  |  |   |                 |  |   |   |
|                                   | Cisco 5760 Wireless LAN Controller  | 802.1X MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>Subnet-to-SGT   | Speaker<br>Listener<br>(version 4)                   | SGT over Ethernet   | SGACL           | Cisco IOS XE 3.3.1SE   | -                                       | IP Base K9                                |
| Cisco Nexus® Data Center Switches | All except F3 Cisco Nexus 7000 line cards and chassis (except F1 Series module) | IP-to-SGT<br>VLAN-to-SGT<br>Port-to-SGT<br>PortProfile-to-SGT<br>(Known Limitation: vPC/Fabric Path are not supported with some TrustSec features**) | Speaker<br>Listener<br>(version 1)                   | SGT over Ethernet, SGT over MACsec (MACsec supported on all line cards except F1,F2, F3 40/100G line cards) | SGACL           | Cisco NX-OS 6.2(8)   | Cisco NX-OS 6.2(10)                     | SGT support in Base license 6.1 and later |
|                                   | Nexus 7000 F3 line cards and chassis  | IP-to-SGT<br>PortProfile-to-SGT<br>VLAN-to-SGT with vPC/VPC+<br>Port-to-SGT with vPC/VPC+  | Speaker<br>Listener<br>(version 1)                   | SGT over Ethernet, SGT over MACsec (MACsec supported on CE ports)   | SGACL           | Cisco NX-OS 7.2(0)D1(1)  |   | SGT support in Base license 7.2 and later |
|                                   | Cisco Nexus 6000/5600 Series  | Port-to-SGT  | Speaker<br>(version 1)                               | SGT over Ethernet   | SGACL           | Cisco NX-OS 7.0(1)N1(1)  | Cisco NX-OS 7.0(5)N1(1)<br>7.1(0)N1(1a) |   |
|                                   | Cisco Nexus 5548P, 5548UP, and 5596UP (Note: No support for 5010 or 5020)       | Port-to-SGT  | Speaker<br>(version 1)                               | SGT over Ethernet   | SGACL           | Cisco NX-OS 6.0(2)N2(5)  | Cisco NX-OS 7.0(5)N1(1),<br>6.0(2)N2(5) |   |
|                                   | Cisco Nexus 1000V for VMware vSphere  | IP-to-SGT<br>PortProfile-to-SGT  | Speaker<br>(version 1)                               | SGT over Ethernet   | SGACL           | Cisco NX-OS 5.2(1)SV3(1.1)<br>(required for SGT/SGACL Support) | Cisco NX-OS 5.2(1)SV3(1.2)              | Advanced License required                 |
|                                   |   |  |  |   |                 |  |   |   |

| Platform   |   | Capabilities  |  |  |                 | Note  |                             |                       |
|--|---|---|--|--|-----------------|---|-----------------------------|-----------------------|
| Categories   | Platform Name   | Security Group Tag (SGT) Classification & Mapping     | SGT Exchange Protocol (SXP) Support (role / version) | Inline SGT Tagging   | SGT Enforcement | Firmware Version to support "all" capabilities listed | Solution Validated Version  | License               |
| Cisco UCS 6200 Series Fabric Interconnects         | Cisco UCS 6248UP Fabric Interconnect  |   |  |  |                 |   | 2.2(3c)                     |                       |
| Cisco Integrated Services Router (ISR) G2          | Cisco 890   | IP-to-SGT<br>Subnet-to-SGT<br>L3IF-to-SGT             | Speaker<br>Listener<br>(version 4)                   | SGT over<br>GETVPN,<br>IPsec<br>VPN,<br>DMVPN                          | SG<br>Firewall  | Cisco IOS<br>15.4(3)M                                 | Cisco IOS<br>15.2(2)T       | ISR<br>SEC/K9         |
|  | Cisco 1900, 2900, 3900 Series   | IP-to-SGT<br>Subnet-to-SGT<br>L3IF-to-SGT             | Speaker<br>Listener<br>(version 4)                   | SGT over<br>Ethernet,<br>SGT over<br>GETVPN,<br>IPsec<br>VPN,<br>DMVPN | SG<br>Firewall  | Cisco IOS<br>15.4(3)M                                 | Cisco IOS<br>15.2(2)T       | ISR<br>SEC/K9         |
|  | Cisco ISR 4451-X  | IP-to-SGT<br>Subnet-to-SGT<br>L3IF-to-SGT             | Speaker<br>Listener<br>(version 4)                   | SGT over<br>Ethernet,<br>SGT over<br>GETVPN,<br>IPsec<br>VPN,<br>DMVPN | SG<br>Firewall  | Cisco IOS-<br>XE<br>3.13(0)S                          | Cisco<br>IOS-XE<br>3.11(0)S | ISR<br>SEC/K9         |
|  | Cisco ISR G2 Series SM-X Layer 2/3 EtherSwitch Module   | 802.1X<br>MAB<br>WEB AUTH<br>IP-to-SGT<br>VLAN-to-SGT | Speaker<br>Listener<br>(version 4)                   | SGT over<br>Ethernet,<br>SGT over<br>MACsec                            | SGACL           | Cisco IOS<br>15.2(2)E                                 | Cisco IOS<br>15.0(2)EJ<br>1 | ISR<br>SEC/K9         |
|  | Cloud Services Router 1000V Series  | IP-to-SGT<br>Subnet-to-SGT<br>L3IF-to-SGT             | Speaker<br>Listener<br>(version 4)                   | SGT over<br>Ethernet,<br>SGT,<br>IPsec<br>VPN,<br>DMVPN                | SG<br>Firewall  | Cisco IOS<br>XE<br>3.11(0)S                           | -                           | ISR<br>SEC/K9         |
| Cisco ASR 1000 Series Aggregation Services Routers | Cisco ASR 1000 Series Router Processor 1 or 2 (RP1/RP2); ASR 1001, 1002/4/6, and 1013 Routers with Embedded Services Processor (10, 20, or 40 Gbps) and SPA Interface Processor (10/40) | IP-to-SGT<br>Subnet-to-SGT<br>L3IF-to-SGT             | Speaker<br>Listener<br>(version 4)                   | SGT over<br>Ethernet,<br>SGT over<br>GETVPN,<br>IPsec<br>VPN,<br>DMVPN | SG<br>Firewall  | Cisco IOS<br>XE<br>3.13(0)S                           | Cisco<br>IOS-XE<br>3.11(0)S | ASR1000<br>SEC-<br>FW |

| Platform                         |   | Capabilities                                      |  |   |                 | Note  |                            |                   |
|----------------------------------|---|---|--|---|-----------------|---|----------------------------|-------------------|
| Categories                       | Platform Name   | Security Group Tag (SGT) Classification & Mapping | SGT Exchange Protocol (SXP) Support (role / version) | Inline SGT Tagging  | SGT Enforcement | Firmware Version to support "all" capabilities listed | Solution Validated Version | License           |
|                                  | Cisco ASR1001-X and 1002-X  | IP-to-SGT<br>Subnet-to-SGT<br>L3IF-to-SGT         | Speaker<br>Listener<br>(version 4)                   | SGT over Ethernet,<br>SGT over GETVPN,<br>IPsec VPN,<br>DMVPN | SG<br>Firewall  | Cisco IOS<br>XE 3.13.<br>0S                           | -                          | ASR1000<br>SEC-FW |
| Cisco ASA 5500 and 5500-X Series | Cisco ASA 5505, 5510, 5520, 5540, 5550, 5580                            |   | Speaker<br>Listener<br>(version 2)                   |   | SG<br>Firewall  | ASA 9.0.1,<br>ASDM<br>7.1.6                           | Cisco<br>ASA 9.0.1         |                   |
|                                  | Cisco ASA v   | Remote<br>Access VPN<br>(IPSec, SSL-<br>VPN)      | Speaker<br>Listener<br>(version 2)                   | SGT over<br>Ethernet  | SG<br>Firewall  | ASA 9.3.1,<br>ASDM<br>7.1.6                           | -                          |                   |
|                                  | Cisco ASA 5512-X, 5515-X, 5525-X, 5545-X, 5555-X, 5585-X with FirePower | Remote<br>Access VPN<br>(IPSec, SSL-<br>VPN)      | Speaker<br>Listener<br>(version 2)                   | SGT over<br>Ethernet  | SG<br>Firewall  | ASA 9.3.1,<br>ASDM<br>7.1.6                           | ASA9.3.1,<br>ASDM<br>7.3.1 |                   |

For the secure access solution compatibility matrix, please visit <http://www.cisco.com/go/ise>.

#### Notes

- "Firmware Version to support "all" capabilities listed" represents the version to support all the capabilities listed for that platform. It does not always represent availability of a specific feature set. For example, Cisco Catalyst 3560-E and 3750-E Series supports dynamic classification as well as other static classifications such as IP-SGT and VLAN-SGT mapping features. In order to use all of those features, the switch needs to be running at least Cisco IOS 15.0(2)SE5.
- Product part numbers of supported line cards for inline SGT on the Cisco Catalyst 4500 Supervisor Engine 7-E and Supervise Engine 7L-E include the following: WS-X4712-SFP+E, WS-X4748-UPOE+E, WS-X4748-RJ45V+E, WS-X4748-RJ45-E, WS-X4640-CSP-E.
- IP to SGT, VLAN to SGT, subnet to SGT, port profile to SGT, port to SGT (also known as L2IF to SGT in some platform documentation), and L3IF to SGT use the static classification method.
- For Cisco 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.

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- \*\* Currently Nexus 7000 supports IP-SGT binding for static classification method when vPC+/FabricPath are configured.



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