

Industrial Security Appliance 3000 Data Sheet

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Developed specifically to withstand the harshest industrial environments, these industrial firewalls offer uncompromising end to end security with industrial design and operation in mind.

Product overview

The Cisco® Industrial Security Appliances are true industrial firewalls that provide OT targeted protection based on proven enterprise class security.

The ISA 3000 with four data links is a DIN rail mount, ruggedized appliance that provides the widest range of Access, Threat, and Application controls for the harshest and most demanding of industrial environments.

The ISA 3000 Series starts with the same industrial success of the IE 4000 switch hardware design and adds the proven security of the Cisco ASA firewall, Firepower services and Firepower Threat Defense (FTD) software. The ISA 3000 is the answer to provide both safety and security to your network modernization projects. It also provides the anchor point for converging IT and OT security visibility without interfering with industrial operational practice. This security appliance is built to withstand extreme environments, reflect industrial design, all the while adhering to overall IT network design, compliance, and performance requirements.

The ISA 3000 Series is ideal for industrial Ethernet applications where hardened products are required. The product is successfully running in major electrical utilities, energy production, mining and other automation environments. Further uses are Intelligent Transportation Systems (ITS), city surveillance programs, and water/wastewater utilities. Security and safety visibility has never been higher with the ability to simultaneously track suspect file propagation, coil set points, abnormal traffic patterns, and escalation of privileges all within a single device. This industrial element of Cisco's secure networking portfolio cooperatively interacts with other industrial grade Cisco solutions as well as provides complete vision to interactions between your local cell, the IT world, outside vendors, or contractor activity.

Proper deployment of the ISA 3000 industrial firewall can fulfill security requirements associated with a variety of industrial standards, regulations, and guidelines such as: NERC-CIP, ISA 99, ISA 62443, CFATS, ANSI/AWWA G430 and others.

Managed through either a user-friendly on-box system manager or company wide security management, the ISA 3000 provides industrial focused, out-of-the-box configuration and simplified operational manageability. These highly customizable management options allow for simplified local operational awareness and higher order IT/OT security convergence for the inevitable mingling of industrial and IT capabilities. The ISA3000 platforms can run either the Cisco ASA Firewall, Cisco ASA Firewall plus Sourcefire FirePOWER (ASA+FP) or Cisco Firepower Threat Defense (FTD).

Table 1. Capabilities of Cisco ISA 3000

<p>Robust Industrial Design</p>	<ul style="list-style-type: none"> • Built for harsh environment and temperature range (-40° to 70° C). • Hardened for vibration, shock, surge, and electrical noise immunity. • Four 1 Gigabit Ethernet uplink ports provide multiple resilient design options. (4 copper or 2 copper plus 2 fiber) • Complies with multi-industry specifications for industrial automation, ITS, and electrical substation environments. • Improves uptime, performance, and safety of industrial systems and equipment. • Compact DIN rail unit design with industrial LED features allowing easy monitoring. • Fanless, convection cooled with no moving parts for extended durability. • IEEE 1588v2 PTP (default profile is supported). • Alarm I/O for monitoring and signaling to external equipment.
<p>User-Friendly GUI Device Manager</p>	<ul style="list-style-type: none"> • On-device management for local awareness immediate control. • Multi-device management can handle 100s of devices. • User specific access and control customizations.
<p>Traffic Continuity/Protection</p>	<ul style="list-style-type: none"> • Full “lights out” traffic bypass copper ports. • Default passive deployment learning mode. • Software updates possible without traffic loss. • Connection limitations protect from DOS causing traffic. • Latency detection and mitigation functions. • Quality of Service policies.
<p>Proven, Extensible Access Control</p>	<ul style="list-style-type: none"> • Enforces ISA-95/IEC 62264 segmentation needs. • Full stateful inspection • Layer 2 and Layer 3 Firewall operation modes. • Downloadable Access Control Lists. • Identity based access control policies. • Users/User Groups. • Policy based routing ACLs. • Extended ACLs. • WebVPN ACLs. • Dynamic ACLs. • TrustSec ACLs.
<p>Uncompromising Threat Detection</p>	<ul style="list-style-type: none"> • Over 25,000 rules provide the widest range of protection anywhere. • Hundreds of industrial focused rules. • Industrial equipment exploit protection rules. • Protocol abuse identification. • Protects web based control systems. • Network behavior analytics. • Passive device discovery.
<p>Application Control</p>	<ul style="list-style-type: none"> • Visibility and Control of all DMZ infrastructure. • Visibility and Control of Industrial applications. • Visibility and Control of individual protocol commands and values. • ICS/OT Protocol Visibility and/or Control.

Remote Access Enablement/Controls	<ul style="list-style-type: none"> • Network Access Control via Cisco AnyConnect. • Identity Services Engine support. • Site to Site VPN. • Remote Access VPN. • Clientless SSL VPN offering. • Cisco Secure Desktop. • Support for Citrix and VMware clientless connections.
DMZ Infrastructure	<ul style="list-style-type: none"> • DNS Services. • DHCP Services. • AAA Support. • IP Routing.
OT/ICS Protocol support - Application Identifiers	<ul style="list-style-type: none"> • Modbus. • DNP3. • BACNet. • COTP. • COSEM. • ENIP - Ethernet/IP. • GOOSE. • GSE. • Emission Control Protocol. • Fujitsu Device Control. • Honeywell Control Station/NIF Server. • Honeywell Esperion DSA Server Monitor. • IEC-60870-5-104. • ISO MMS. • OPC-UA. • Q.931. • SRC. • TPKT. • CIP (Common Industrial Protocol). • CIP Admin. • CIP Infrastructure. • CIP Malformed. • CIP RA Admin Download. • CIP RA Admin Firmware Update. • CIP RA Admin Other. • CIP RA Infrastructure. • CIP A Read Other. • CIP RA Read Tag. • CIP RA Write Other. • CIP RA Write Tag. • CIP Read. • CIP Unknown. • CIP Write.

OT Protocol pre-processors and Intrusion Rules

- Modbus.
- DNP3.
- CIP.
- IEC-60870-5-4.
- IEC-61850-MMS.

Your Ruggedized Choice for Industrial Firewall Deployments

The Cisco Industrial Security Appliance 3000 Series offer:

- Controlled access from cell and substation level all the way up to ISP connectivity.
- Flexible, enterprise class remote access.
- Provides basic network infrastructure services such as DNS and DHCP.
- Unequaled threat protection for every level of networking and computing - from the switch, router, OS, compute infrastructure, to industrial control systems.
- More levels of traffic continuity safety than other offering in the industrial space.
- Application visibility and control for every level of application in the industrial and enterprise space.

Figure 1 shows the ISA 3000, Table 2 shows the available ISA 3000 ordering PIDs, and Table 3 lists the SFP modules for Cisco Industrial Security Appliance 3000 Series.



Table 2. Cisco Industrial Security Appliance 3000 Series Models and options:

Product Number	Copper 10/100/1000 (all bypass enabled)	SFP Fiber Ports
ISA-3000-2C2F-K9	2	2
ISA-3000-4C-K9	4	0
Optional Orderable Features (ASA+FP)		
L-ISA3000SEC+-K9		Security Plus - HA enablement, SSL VPN, greater connection count, VLAN trunking
L-ISA3000-TA=		Threat/Application Subscription License

Product Number	Copper 10/100/1000 (all bypass enabled)	SFP Fiber Ports
L-ISA3000-TA-1Y		1 Year Subscription Threat/Application
L-ISA3000-TA-3Y		3 Year Subscription Threat/Application
L-ISA3000-TA-5Y		5 Year Subscription Threat/Application
L-ISA3000-AMP=		Threat Defense Malware Protection License
L-ISA3000-AMP-1Y		1 Year Subscription Threat Defense Malware Protection
L-ISA3000-AMP-3Y		3 Year Subscription Threat Defense Malware Protection
L-ISA3000-AMP-5Y		5 Year Subscription Threat Defense Malware Protection
L-ISA3000-URL=		Threat Defense URL Filtering License
L-ISA3000-URL-1Y		1 Year Subscription Threat Defense URL Filtering License
L-ISA3000-URL-3Y		3 Year Subscription Threat Defense URL Filtering License
L-ISA3000-URL-5Y		5 Year Subscription Threat Defense URL Filtering License
L-ISA3000-TC=		Threat Defense Threat and URL License
L-ISA3000-TC-1Y		1 Year Subscription Threat Defense Threat and URL Filtering License
L-ISA3000-TC-3Y		3 Year Subscription Threat Defense Threat and URL Filtering License
L-ISA3000-TC-5Y		5 Year Subscription Threat Defense Threat and URL Filtering License
L-ISA3000-TM=		Threat Defense Threat and Malware License
L-ISA3000-TM-1Y		1 Year Subscription Threat Defense Threat and Malware Protection License
L-ISA3000-TM-3Y		3 Year Subscription Threat Defense Threat and Malware Protection License
L-ISA3000-TM-5Y		5 Year Subscription Threat Defense Threat and Malware Protection License
L-ISA3000-TMC=		Threat Defense Threat, Malware and URL License
L-ISA3000-TMC-1Y		1 Year Subscription Threat Defense Threat, Malware Protection, and URL License
L-ISA3000-TMC-3Y		3 Year Subscription Threat Defense Threat, Malware Protection, and URL License
L-ISA3000-TMC-5Y		5 Year Subscription Threat Defense Threat, Malware Protection, and URL License

Product Number	Copper 10/100/1000 (all bypass enabled)	SFP Fiber Ports
Optional Orderable Features (FTD)		
L-ISA3000T-T=		Threat/Application Subscription License
L-ISA3000T-T-1Y		1 Year Subscription Threat/Application
L-ISA3000T-T-3Y		3 Year Subscription Threat/Application
L-ISA3000T-T-5Y		5 Year Subscription Threat/Application
L-ISA3000T-AMP=		Threat Defense Malware Protection License
L-ISA3000T-AMP-1Y		1 Year Subscription Threat Defense Malware Protection
L-ISA3000T-AMP-3Y		3 Year Subscription Threat Defense Malware Protection
L-ISA3000T-AMP-5Y		5 Year Subscription Threat Defense Malware Protection
L-ISA3000T-URL=		Threat Defense URL Filtering License
L-ISA3000T-URL-1Y		1 Year Subscription Threat Defense URL Filtering License
L-ISA3000T-URL-3Y		3 Year Subscription Threat Defense URL Filtering License
L-ISA3000T-URL-5Y		5 Year Subscription Threat Defense URL Filtering License
L-ISA3000T-TC=		Threat Defense Threat and URL License
L-ISA3000T-TC-1Y		1 Year Subscription Threat Defense Threat and URL Filtering License
L-ISA3000T-TC-3Y		3 Year Subscription Threat Defense Threat and URL Filtering License
L-ISA3000T-TC-5Y		5 Year Subscription Threat Defense Threat and URL Filtering License
L-ISA3000T-TM=		Threat Defense Threat and Malware License
L-ISA3000T-TM-1Y		1 Year Subscription Threat Defense Threat and Malware Protection License
L-ISA3000T-TM-3Y		3 Year Subscription Threat Defense Threat and Malware Protection License
L-ISA3000T-TM-5Y		5 Year Subscription Threat Defense Threat and Malware Protection License
L-ISA3000T-TMC=		Threat Defense Threat, Malware and URL License
L-ISA3000T-TMC-1Y		1 Year Subscription Threat Defense Threat, Malware Protection, and URL License
L-ISA3000T-TMC-3Y		3 Year Subscription Threat Defense Threat, Malware Protection, and URL License

Product Number	Copper 10/100/1000 (all bypass enabled)	SFP Fiber Ports
L-ISA3000T-TMC-5Y		5 Year Subscription Threat Defense Threat, Malware Protection, and URL License

Table 3. Supported Cisco Ruggedized SFPs

Product Number	Type
GLC-SX-MM-RGD=	1000 BASE-SX Ruggedized
GLC-LX-SM-RGD=	1000 BASE-LX/LH Ruggedized
GLC-FE-100FX-RGD=	100 BASE-FX Ruggedized
GLC-FE-100LX-RGD=	100 BASE-LX Ruggedized

Table 4. Suggested power supply

Cisco Part number	Details
PWR-IE50W-AC-IEC	AC to DC 24V/2.1A DIN Rail power supply, input 100-240VAC/1.25A 50-60Hz, output 24VDC/2.1A, IEC Plug
PWR-IE50W-AC	AC to DC 24V/2.1A DIN Rail power supply, input 100-240VAC/1.25A or 125-250VDC/1A, output 24VDC

Product specifications

Table 5 lists physical specifications, Table 6 gives information about device performance and scalability, Tables 7 and 8 list some important software features, Table 9 lists compliance specifications, and Table 10 gives information about management and standards of the Cisco ISA 3000 Series.

Table 5. Physical product specifications

Description	Specification
Hardware	<ul style="list-style-type: none"> • 4 Core Intel Rangelly (I-temp). • 8-GB DRAM (soldered down). • 16-GB onboard flash memory. • mSATA 64Gb. • 1-GB removable SD flash memory card - industrial temp (enabled in future release). • Mini-USB connector for console. • RJ-45 traditional console connector. • Dedicated 10/100/1000 Management port. • Hardware based anti-counterfeit, anti-tamper chip. • Factory reset option.
Alarm	<ul style="list-style-type: none"> • Alarm I/O: two alarm inputs to detect dry contact open or closed, one Form C alarm output relay.
Dimensions, (H x W x D)	<ul style="list-style-type: none"> • 11.2cm (Width) x 13cm (Height) x 16cm (Depth).

Description	Specification
Weight	<ul style="list-style-type: none"> • 1.9kg.
Power Supply and Ranges	<ul style="list-style-type: none"> • Dual internal DC. • Nominal ± 12Vdc, 24Vdc, or 48Vdc. • Maximum Range 9.6 Vdc to 60 Vdc. • Power Consumption 24 Watts.
MTBF - Mean Time Between Failure	<ul style="list-style-type: none"> • ISA-3000-4C 398,130 hours. • ISA-3000-2C2F 376,580 hours.

Table 6. Device scalability

Description	Specification
Throughput	Max 2Gbps - Min. 22Mbps Varies with traffic type and security activity (please work with Cisco SE for your traffic profile)
IPSec VPN Tunnels	5, 25 (with SecPlus license on ASA), 25 (FTD)
Defined Interfaces	200, 400 (with SecPlus license on ASA), 400 (FTD)
VLAN counts	5, 100 (with SecPlus license on ASA), 100 (FTD)
IPv4 MAC security ACEs	1,000 with default TCAM Template
NAT translation	Bidirectional, 128 unique subnet NAT translation entries, which can expand to tens of thousands of translated entries if designed properly

Table 7. Cisco ISA 3000 Key network support features

General Features	Features
NAT	<ul style="list-style-type: none"> • Static NAT • With Port Translation, One-to-Many, Non-standard ports • Dynamic NAT • Dynamic PAT • Identity NAT
Layer 2 IPv6	IPv6 Host support, HTTP over IPv6, SNMP over IPv6
Layer 3 Routing	IPv4 Static Routing Dynamic Routing - RIP, EIGRP, ISIS, OSPF and BGP
Utility	IEEE 1588 (PTP HW enabled)

General Features	Features
Separate Routing for Management Traffic	Segregates data and management traffic routing
Trunking	802.1q trunks supported

Table 8. Cisco ISA 3000 key security software features

Security Area	Features
TrustSec Controls	<ul style="list-style-type: none"> • In-band and out of band Identity • Active Directory integration • Policy based on Security Group Tags • 802.1x support • MACSec and MAB support • Enforces end-point security state for remote access
Multi-Level Access Controls	<ul style="list-style-type: none"> • Global Blacklists - automated or manual • Global Whitelists • Third party intelligence feed utilization • File Whitelists • File Blacklists • Application level access control • 802.1x support
Threat Network Mapping	<ul style="list-style-type: none"> • Passive device identification • Mobile device identification • Application host network mapping • Vulnerability/host network mapping • User/host network mapping
Threat Discovery	<ul style="list-style-type: none"> • Indicators of Compromise tracking • OpenAppID - open community ID system • Correlation policies and responses • Traffic variance detection • Router based remediation actions • Netflow tracking • 25,000+ threat identifiers • Customizable identifiers • Can create wholly new identifiers • Widest identifier contributorship
File Tracking	<ul style="list-style-type: none"> • Approved file trace • Suspect file trace • Malware match

Table 9. Compliance specifications

Type	Standards
Electromagnetic Emissions	FCC 47 CFR Part 15 Class A EN 55022A Class A VCCI Class A AS/NZS CISPR 22 Class A CISPR 11 Class A CISPR 22 Class A ICES 003 Class A CNS13438 Class A KN22
Electromagnetic Immunity	EN55024 CISPR 24 AS/NZS CISPR 24 KN24 EN 61000-4-2 Electro Static Discharge EN 61000-4-3 Radiated RF EN 61000-4-4 Electromagnetic Fast Transients EN 61000-4-5 Surge EN 61000-4-6 Conducted RF EN 61000-4-8 Power Frequency Magnetic Field EN 61000-4-9 Pulse Magnetic Field EN 61000-4-18 Damped Oscillatory Wave EN-61000-4-29 DC Voltage Dips and Interruptions
Industry Standards	EN 61000-6-1 Immunity for Light Industrial Environments EN 61000-6-2 Immunity for Industrial Environments EN 61000-6-4 Emission Standard for Industrial Environments EN 61326 Industrial Control EN 61131-2 Programmable Controllers IEEE 1613 Electric Power Stations Communications Networking IEC 61850-3 Electric Substations Communications Networking NEMA TS-2 EN 50121-3-2 EN 50121-4 EN 50155

Type	Standards
Safety Standards and Certifications	<p>Information Technology Equipment:</p> <p>UL/CSA 60950-1</p> <p>EN 60950-1</p> <p>CB to IEC 60950-1 with all country deviations</p> <p>NOM to NOM-019-SCFI (through partners and distributor)</p> <p>Industrial Floor (Control Equipment):</p> <p>UL 508</p> <p>CSA C22.2, No 142</p> <p>EN/IEC 61010-2-201</p> <p>UL/CSA 61010-1</p> <p>Hazardous Locations*</p> <p>ANSI/ISA 12.12.01 (Class I, Div 2 A-D)</p> <p>CSA C22.2 No 213 (Class 1, Div 2 A-D)</p> <p>UL/CSA 60079-0, -15</p> <p>IEC 60079-0, -15 (IECEx test report Class I, Zone 2, group II gases)</p> <p>EN 60079-0, -15 ATEX certification (Class I, Zone 2, group II gases)</p> <p>*Must meet deployment requirements such as with IP 54 enclosure described in the following document: Product Documentation and Compliance Information for the Cisco ISA 3000 Industrial Security Appliance https://www.cisco.com/c/dam/en/us/td/docs/security/Firewalls/ISA3000/ISA3000-PDOC.pdf</p>
Operating Environment	<p>Operating Temperature: -40C to +74C</p> <ul style="list-style-type: none"> • -40C to +70C (Vented Enclosure Operating) • -40C to +60C (Sealed Enclosure Operating) • -40C to +75C (Fan or Blower equipped Enclosure Operating) <p>EN 60068-2-21</p> <p>EN 60068-2-2</p> <p>EN 61163</p>
Storage Environment	<p>Temperature: -40 to +85 degrees C</p> <p>Altitude: 0-15,000 feet</p> <p>IEC 60068-2-14</p>
Humidity	<p>Relative humidity of 5% to 95% non-condensing.</p> <p>IEC 60068-2-30</p>

Type	Standards
Shock and Vibration	<ul style="list-style-type: none"> • IEC60068-2-6 and IEC60068-2-27 • MIL-STD-810, Method 514.4 • Marine EN60945 • Industrial EN61131-2/IEC61131-2 • Railway EN61373 CAT 1B • Smart Grid EN61850-3 • IEEE 1613
Corrosion	<p>ISO 9223: Corrosion class C3-Medium class C4-High</p> <p>EN 60068-2-52 (Salt Fog) EN 60068-2-60 (Flowing Mixed Gas)</p>
Others	<p>RoHS Compliance China RoHS Compliance TAA (Government) CE (Europe)</p>
Warranty	Five-year limited HW warranty on all ISA 3000 PIDS. See link at end of Datasheet for more details on warranty.

Table 10. Management and standards

Description	Specification	
IEEE Standards	<ul style="list-style-type: none"> • IEEE 802.1D MAC Bridges, STP • IEEE 802.1p Layer2 COS prioritization • IEEE 802.1q VLAN • IEEE 802.1s Multiple Spanning-Trees • IEEE 802.1w Rapid Spanning-Tree • IEEE 802.1x Port Access Authentication • IEEE 802.1AB LLDP • IEEE 802.3ad Link Aggregation (LACP) 	<ul style="list-style-type: none"> • IEEE 802.3ah 100BASE-X SMF/MMF only • IEEE 802.3x full duplex on 10BASE-T • IEEE 802.3 10BASE-T specification • IEEE 802.3u 100BASE-TX specification • IEEE 802.3ab 1000BASE-T specification • IEEE 802.3z 1000BASE-X specification • IEEE 1588v2 PTP Precision Time Protocol

Description	Specification	
RFC Compliance	<ul style="list-style-type: none"> • RFC 768: UDP • RFC 783: TFTP • RFC 791: IPv4 protocol • RFC 792: ICMP • RFC 793: TCP • RFC 826: ARP • RFC 854: Telnet • RFC 951: BOOTP • RFC 959: FTP • RFC 1157: SNMPv1 • RFC 1901, 1902-1907 SNMPv2 • RFC 2273-2275: SNMPv3 • RFC 2571: SNMP Management • RFC 1166: IP Addresses • RFC 1256: ICMP Router Discovery 	<ul style="list-style-type: none"> • RFC 1305: NTP • RFC 1492: TACACS+ • RFC 1493: Bridge MIB Objects • RFC 1534: DHCP and BOOTP interoperation • RFC 1542: Bootstrap Protocol • RFC 1643: Ethernet Interface MIB • RFC 1757: RMON • RFC 2068: HTTP • RFC 2131, 2132: DHCP • RFC 2236: IGMP v2 • RFC 3376: IGMP v3 • RFC 2474: DiffServ Precedence • RFC 3046: DHCP Relay Agent Information Option • RFC 3580: 802.1x RADIUS • RFC 4250-4252 SSH Protocol

¹ For the complete list of the supported SFP models, please refer to https://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html.

² MMF = multi-mode fiber

³ SMF = single-mode fiber

Warranty information

Warranty information for the ISA 3000 is available at <https://www.cisco-servicefinder.com/warrantyfinder.aspx>

Cisco environmental sustainability

Information about Cisco’s environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the “Environment Sustainability” section of Cisco’s [Corporate Social Responsibility](#) (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the “Environment Sustainability” section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

Cisco and Partner Services

At Cisco, we're committed to minimizing our customers' TCO, and we offer a wide range of services programs to accelerate customer success. Our innovative programs are delivered through a unique combination of people, processes, tools, and partners, resulting in high levels of customer satisfaction. Cisco Services helps you protect your network investment, optimize network operations, and prepare your network for new applications to extend network intelligence and the power of your business. Some of the key benefits our customers can get from Cisco Services follow:

- Mitigating risks by enabling proactive or expedited problem resolution
- Lowering TCO by taking advantage of Cisco expertise and knowledge
- Minimizing network downtime
- Supplementing your existing support staff so they can focus on additional productive activities

For more information about Cisco Services, refer to Cisco Technical Support Services or Cisco Advanced Services at <https://www.cisco.com/web/services/>.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more](#).

For more information

For more information about the Cisco ISA 3000 Series, visit <https://www.cisco.com/go/isa3000> contact your local account representative.

Document history

New or Revised Topic	Described In	Date
Updates related to new OS version		Jan 20, 2020
New available licenses		Jan 20, 2020

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
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Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
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