Cisco Catalyst 2960CX/3560CX Series to 9200CX Series

Introduction

The Cisco Catalyst® 9000 switching family is the next generation in the legendary Cisco Catalyst family of enterprise LAN access, aggregation, and core switches. And now with the Catalyst 9200CX Series of switches, we're bringing the feature richness of the Catalyst 9200 in a fan-less, compact form factor. Cisco Catalyst 9200CX Series switches extend the power of intent-based networking and Catalyst 9000 hardware and software innovation to a broader set of deployments. Compared to the scale and feature richness the of Catalyst 9300 Series switches, Catalyst 9200 Series switches focus on offering features for the mid-market and simple branch deployments. With its family pedigree, Catalyst 9200CX Series offers simplicity without compromise –it is secure, always on and provides IT simplicity.

Purpose of this guide

This document is intended to help network planners and engineers who are familiar with the Cisco Catalyst 2960CX/3560CX Series Switches deploy the Cisco Catalyst 9200CX Series Switches in the enterprise networking environment.

Why migrate?

Cisco Catalyst 9200CX Series Switches are Cisco's latest addition to the compact fixed enterprise switching access platform, and are built for security, resiliency, and programmability. These switches play an integral role as entry-level switches in Cisco Software-Defined Access (SD-Access), Cisco's lead enterprise architecture. The 9200CX Series provides enterprise-level resiliency and keeps your business up and running seamlessly in a fan-less compact form-factor, by leveraging features such as cold patching, perpetual Power over Ethernet (PoE), and a high Mean Time Between Failures (MTBF).

The Cisco Catalyst 9200CX Series has a flexible fixed-uplink architecture that supports 1-Gbps and 10-Gbps speeds. The platform offers 1-Gbps and multigigabit (mGig) 10-Gbps copper Ethernet switches with up-to 23-Gbps uplink bandwidth.

The Cisco Catalyst 9200CX Series also has a highly resilient and efficient power architecture, which delivers a high density of UPOE and PoE+ ports in a compact switch. The switches provide industry-leading PoE resiliency capabilities, such as perpetual and fast PoE, optimizing them for Internet-of-Things (IoT) deployments. They support the most efficient power supplies in the industry, offering flexible switch powering options with AC/hVDC power supplies or via PoE uplinks.

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The Cisco Catalyst 9200CX Series Switches are also built with the latest Cisco Unified Access® Data Plane 2.0 (UADP 2.0) mini Application-Specific Integrated Circuit (ASIC) and an internal ARM based CPU with open Cisco IOS® XE Software, a converged operating system. Together, they deliver model-driven programmability, streaming telemetry, application visibility, stronger security with MACsec and support for higher-bandwidth uplinks, and a more advanced operating system than the Cisco Catalyst 2960CX/3560CX Series.

System hardware

The Cisco Catalyst 9200CX Series is based on Cisco's UADP 2.0 mini ASIC architecture and an internal ARM CPU architecture. This allows the switch to run with the Cisco IOS-XE operating system, which enables the switch to support standard YANG models through NETCONF or RESTCONF and to run scripts natively within the switch.

Table 1 lists the system hardware differences between the Cisco Catalyst 2960CX/3560CX Series and 9200CX Series.

Table 1. Comparison of the Cisco Catalyst 2960CX/3560CX Series and 9200CX Series system hardware

	Catalyst 9200CX Series mGig/UPOE Switch	Catalyst 9200CX Series POE+ switches	Catalyst 9200CX Series POE-Passthrough Switch	Catalyst 9200CX Series Data-Only switch	Catalyst 3560CX Series switches
CPU	4 Core @500Mhz Embedded ARM	4 Core @375Mhz Embedded ARM	4 Core @250Mhz Embedded ARM	4 Core @375Mhz Embedded ARM	Dual Core CPU@600MHz
DRAM (DDR3)	4GB	4GB	4GB	4GB	512MB
Flash On board	8GB	8GB	8GB	8GB	128MB
Buffer	6MB/ASIC	6MB/ASIC	6MB/ASIC	6MB/ASIC	4MB/ASIC

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	Catalyst 9200CX Series mGig/UPOE Switch	Catalyst 9200CX Series POE+ switches	Catalyst 9200CX Series POE-Passthrough Switch	Catalyst 9200CX Series Data-Only switch	Catalyst 3560CX Series switches
Power Supply	315W (Internal) [AC and HVDC options]	315W (Internal) [AC and HVDC options]	80W/150W (External) or 802.3bt Type 4 Class 8 90W Uplink Powered	80W (External) or 802.3bt Type 3 Class 6 60W Uplink Powered	300W (Internal) or UPOE+ Uplink Powered
Switching Bandwidth	128GB	60GB/68GB	20GB	70GB	64GB
MACsec	256-Bit MACsec	256-Bit MACsec	256-Bit MACsec	256-Bit MACsec	802.1X-2010(MKA) PSK Support for Switch-2-Switch
Max PoE Budget	240W	240W	240W	N/A	240W
Max Depth	9.6” (24.4cm)	9.6” (24.4cm)	6.5” (16.5cm)	6.5” (16.5cm)	10.6” (26.9cm)
Console Port	USB Type Micro-B	USB Type Micro-B	USB Type Micro-B	USB Type Micro-B	USB mini-B and RJ-45
SD-Card Slot	Support for up-to 16GB	Support for up-to 16GB	Support for up-to 16GB	Support for up-to 16GB	N/A

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Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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System software

With a consistent hardware architecture and a shared code base with the rest of the Catalyst 9000 family, the Catalyst 9200CX Series inherits enhanced functionalities that otherwise would not be supported on Catalyst 2960CX/3560CX switches. These feature sets provide increased resiliency and security through features such as MACsec, Cisco SD-Access, and support for Cisco TrustSec. Table 2 Lists the major system software differences between Cisco Catalyst 2960CX/3560CX Series and 9200CX Series switches.

Table 2. Feature comparison between the Catalyst 9200CX and Catalyst 2960CX/3560CX Series of compact switches

	Feature	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Modern Operating System	OS	IOS-XE Lite	IOS Classic
	Model-driven Programmability	✓	✗
	Streaming Telemetry	✓	✗
	Patching	✓	✗
	Cisco Plug and Play (PnP)	✓	✓
	Full Flexible NetFlow	✓	✗
	SD-AVC w/ NBAR2	✓	✗
	Virtual Route Forwarding (VRF) Support	✓	✗

Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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	Feature	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Advanced Routing	Intermediate System to Intermediate System (IS-IS)	✓	✗
	Enhanced Interior Gateway Routing Protocol (EIGRP)	✓	✓
	Open Shortest Path First (OSPF)	✓	✓
Fabric	SD-Access Fabric Edge	✓	✗

System default behavior

The system default behavior on Cisco Catalyst 9200CX Series switches are very much the same as that of the Cisco Catalyst 2960CX/3560CX Series. For example, interfaces default to the layer 2 switch-port mode and IP routing is disabled. However, there are also some differences.

- Management interface - The management interface on the Cisco Catalyst 9200CX Series is Gigabit Ethernet with 3 octets, which is in line with the rest of the Catalyst 9000 Series. The management port on the Catalyst 9200CX platform has dedicated Virtual Routing and Forwarding (VRF) for separation of management traffic from normal data traffic, unlike the Catalyst 2960CX/35600CX series platforms, which lack support for virtual VRF instances. Table 3 lists the management port differences between the two platforms.

Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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Table 3. Comparison of management interface default configurations on Catalyst 2960CX/3560CX and 9200CX switches

	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Interface	GigabitEthernet1/0/1	GigabitEthernet0/1
VRF	Mgmt-vrf	none
Default Configuration	Interface GigabitEthernet1/0/1 vrf forwarding Mgmt-vrf no ip address speed 1000 negotiation auto end	GigabitEthernet0/1 no ip address no ip route-cache shutdown end

- Control Plane Policing (CoPP) - CoPP is enabled on the Cisco Catalyst 9200CX Series with default policing rates for different classes of traffic. These policing rates are optimized for a typical campus environment. The policing rates can be changed or disabled for different application environments. On the Cisco Catalyst 2960CX/33560CX Series, CoPP is not enabled by default, but the system provides a macro to create the different classes, and the user can specify the policing rate for different classes.

Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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Operations

Interface reference

Cisco Catalyst 9200CX Series Switches have Gigabit Ethernet (GE) and 10-GE ports only. The uplink ports on the Catalyst 2960CX Series had <Type><Slot#>/<Bay#>/<Port#>, whereas the 9200 Series has `<Type><Switch#>/<Bay#>/<Port#>`. Table 4 Compares the interface numbering between the two platforms.

Table 4. Switch interface naming and numbering conventions

	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
GE downlink	GigabitEthernet1/0/1	GigabitEthernet0/1
mGig/10G downlink	Te1/0/5	Te1/0/5
GE uplink	GigabitEthernet1/1/1	GigabitEthernet0/9
10-GE uplink	TenGigabitEthernet1/1/3	TenGigabitEthernet 1/0/1

Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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Software features

For details on the features supported on the Cisco Catalyst 9200CX Series, use the Feature Navigator on cisco.com. For customers migrating from the Cisco Catalyst 2960CX Series to the 9200CX Series, following are the only feature differences:

System MTU

On the Cisco Catalyst 9200CX Series, the global command “system mtu <1500-9198>” sets the global MTU for all interfaces, whereas on 2960CX/3560CX Series the command to set MTU was “system mtu jumbo <1500-9198>”. With the Cisco Catalyst 9200CX Series, the IP MTU is a per-interface-level command that sets a protocol-specific MTU for the interface. Table 5 explains how to set the system MTU.

Table 5. Setting the system MTU

	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
System MTU	C9200CX (config)# system mtu ? <1500-9198> MTU size in bytes	C3560CX (config)# system mtu jumbo ? <1500-9198> MTU size in bytes
IP MTU	C9200CX (config)# int gi1/0/1 C9200CX (config-if)#ip mtu ? <832-1500> MTU (bytes)	C3560CX (config)# system mtu routing

Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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Host tracking feature

The Cisco Catalyst 2960CX/3560CX Series supports IP Device Tracking (IPDT) for keeping track of connected hosts (association of MAC and IP addresses). The Cisco Catalyst 9200CX Series, with the latest Cisco IOS XE Software release, supports the new Switch Integrated Security Features (SISF) based on the IPDT feature. It acts as a container policy that enables snooping and device-tracking features available with First-Hop Security (FHS), in both IPv4 and IPv6, using IP-agnostic Command-Line Interface (CLI) commands. See Appendix A for more information on migrating from the IPDT CLI configuration to the new SISFbased device-tracking CLI configuration.

Full Flexible NetFlow

Both the Catalyst 9200CX Series and the Catalyst 2960CX/3560CX Series support Flexible NetFlow. Besides the scalability differences, there are a few differences in the capabilities and configurations, as listed in Table 6.

Table 6. Flexible NetFlow differences

	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Flow support	Ingress and egress	Ingress only
Export formats	Version 9 and Version 10	Version 9
NetFlow support on L2 VLAN	Yes	No
Sampler rate	1 out of 2 to 1 out of 1024	1 out of 32 to 1 out of 1022
Timestamp	Use absolute time [0 is at time 00:00:00 January 1, 1970]	Use system uptime
Bridged traffic	Apply the flow monitor to a VLAN	None

Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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Boot mode

The Catalyst 9200CX Series supports the monolithic bundle boot mode as well as the optimized install boot mode, whereas the Catalyst 2960CX/3560CX Series supports only the traditional bundle mode. All Catalyst 9200CX switches ship with the default install boot mode. Table 7 compares the boot mechanism between the two platforms. Table 8 shows how to ignore the startup configuration.

Table 7. Boot modes on Catalyst 2960CX/3560CX and Catalyst 9200CX Series Switches

	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Boot modes	Install, bundle	Bundle
Default	Install Mode (recommended)	Bundle Mode
Boot configuration	C920CX# install add file flash:cat9k_xxx.bin activate commit	C3560CX(config)#boot system flash:c2960x-xx.152.bin

Table 8. Ignoring the startup configuration

	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Cisco IOS Software	C920CX(config)#system ignore startup config	
ROMMON	SWITCH_IGNORE_ STARTUP_CFG=1	Confreg, use the interactive prompt to enable/disable ignore startup configuration

Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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Switch reset

The Cisco Catalyst 2960CX/3560CX Series uses the traditional “write erase” command in Cisco IOS Software and deleting of the configuration file and vlan.dat file in ROMMON to reset the switch. The Cisco Catalyst 9200CX Series provides exec “factory-reset”, “write erase”, and “erase nvram:” commands; either of which can be used to remove all customer- specific data that has been added to the device since the time of its shipping. Erased data includes configurations, log files, boot variables, core files, and credentials. The device reloads to perform the factory-reset task and stays in ROMMON mode.

Quality of service

The ASICs and operating system that power the Cisco Catalyst 2960CX/3560CX and Catalyst 9200CX Series are different, resulting in some differences in QoS behaviors, as described in Table 9.

Table 9. QoS differences between the 9200CX and 2960CX/3560CX Switches

	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Model	MQC	MLS
QoS default	Enabled	Disabled
Trust interface configuration	Trust all	Trust none
Port ingress	Classification/Policing/ Marking	Classification/Policing/Marking/ Scheduling
Port egress	Policing/Marking/Queueing	Queueing and scheduling
SVI ingress	Classification/Marking	Not Supported
SVI egress	Classification/Marking	Not Supported
Hierarchical QoS	Supported	Not Supported

Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Queues	2P6Q3T (8 Queues)	2P6Q3T (8 Queues)
Classification	Ingress and Egress	Ingress Only
Marking	Ingress and Egress	Ingress Only
Policing	1r2c, 2r3c	1r2c
Sampler rate	1 out of 2 to 1 out of 1024	1 out of 32 to 1 out of 1022
Policing action	Drop, mark down using Table Maps, (DSCP, CoS, Precedence)	Drop, mark down DSCP, CoS, precedence
Egress queuing	YES – Shaping, Bandwidth, tail-drops (AFD, WRED) and priority queuing	WTD (Weighted Tail Drp), Priority queueing, Shaping, Bandwidth

Table 10 lists other QoS specifications in the Cisco Catalyst 2960CX/3560CX Series and Catalyst 9200CX Series.

Table 10. QoS specifications in the Cisco Catalyst 2960CX/3560CX Series and Catalyst 9200CX Series

	Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Buffer	6 MB/ASIC	4 MB/ASIC
Buffer Sharing	Buffer sharing is within the ASIC	Buffer sharing is within the ASIC
Number of Priority Queues	2	0 to 1

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Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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Congestion avoidance

The Cisco Catalyst 2960CX/3560CX Series supports only Weighted Tail Drop (WTD), which discards packets based on configured thresholds. The Cisco Catalyst 9200CX Series uses both WTD and Weighted Random Early Detection (WRED), which randomly discards packets at specified queue thresholds based on IP precedence, Differentiated Services Code Point (DSCP), or Class of Service (CoS), giving the network architect much more control over the drop behavior. Following is an example of a WRED configuration on the 9200CX Series.

policy-map 2P6Q3T

class PRIORITY-QUEUE

priority level 1|

class VIDEO-PRIORITY-QUEUE

priority level 2 class DATA-QUEUE

bandwidth remaining percent <number> queue-buffers ratio <number> random-detect dscp-based

random-detect dscp 10 percent 60 80

Cisco Catalyst 2960CX/3560CX Series platform-specific commands

Table 11 lists commands that are specific to the Cisco Catalyst 2960CX Series and are not available on the Catalyst 9200CX Series.

Table 11. Platform specific commands

Catalyst 9200CX Series	Catalyst 2960CX/3560CX Series
Not applicable	vlan internal allocation policy ascending
Not applicable	ntp update-calendar
See Appendix A	ip device tracking

Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

Accessories

The Cisco Catalyst 9200CX come with newly designed accessories. Like the Cisco Catalyst 2960CX and 3560CX, there are four different mounting options to meet different customer mounting needs: wall mount, table-top/bottom/shelf mount, rack mount, and din rail mount. These versatile deployment options help reduce cost of premium space; and the C9200CX is designed to dissipate heat better with its' newly, custom designed accessories. These accessories are special designed for the Cisco Catalyst 9200CX, and the mounting accessories of the Cisco Catalyst 2960CX/3560CX are not compatible with the Cisco Catalyst 9200CX. The mounting options are shown in Image 1 below.

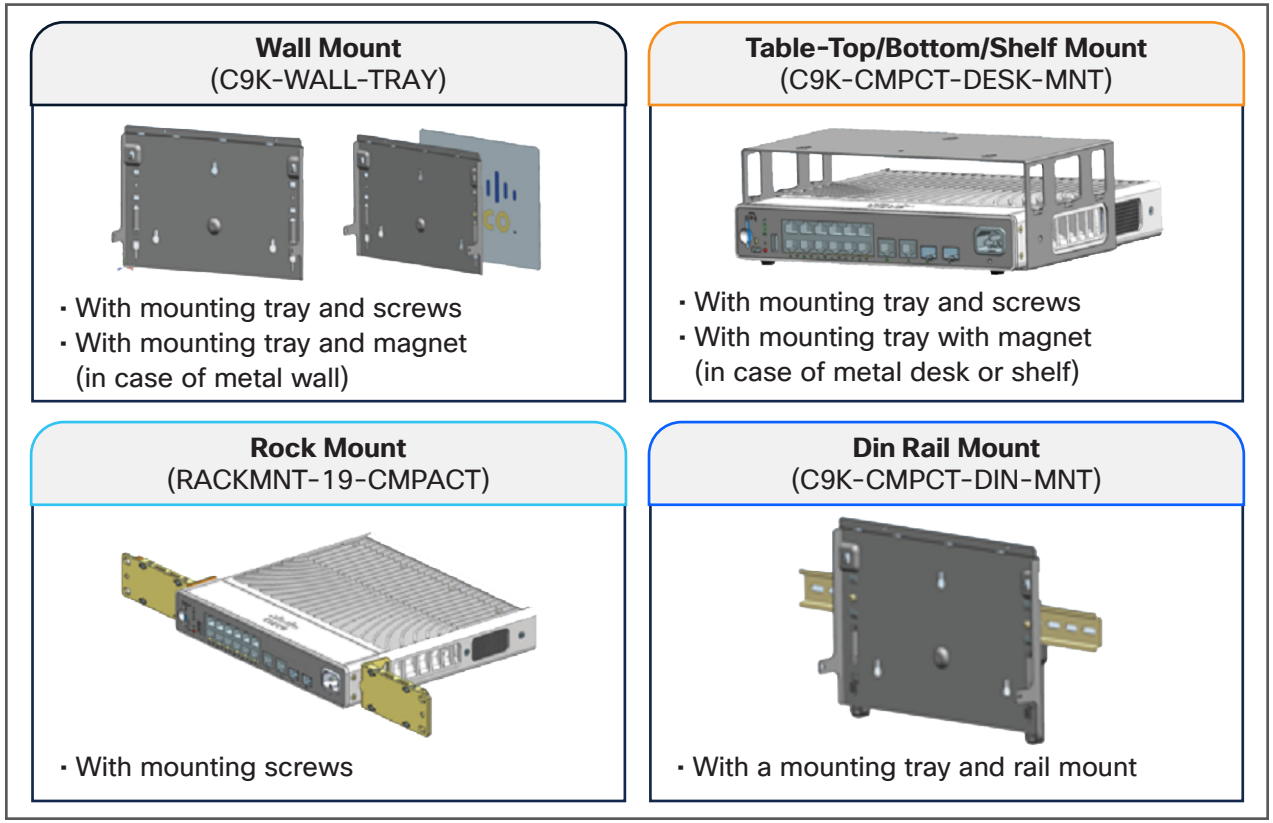


Figure 1. Cisco Catalyst 9200CX Mounting Options

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Contents

Introduction
Purpose of this guide
Why migrate?
System hardware
System software
System default behavior
Operations
Software features
Cisco Catalyst 2960CX/3560CX Series platform-specific commands
Conclusion
Appendix A
How to buy

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Conclusion

The Cisco Catalyst 9200CX Series is Cisco's latest addition to our fixed enterprise switching access platform. It is the new generation of the access platform, with many additional capabilities, and is well-suited for enterprises looking to migrate from their existing Cisco Catalyst 2960CX/3560CX Series deployment.

Appendix A

If your device has no legacy IP device-tracking or IPv6 snooping configurations, you can use only the new SISF-based device-tracking commands for all your future configurations. The legacy IPDT commands and IPv6 snooping commands are not available.

Table 12 displays the new SISF-based device-tracking commands and the corresponding IPDT and IPv6 snooping commands.

Table 12. IPDT, IPv6 snooping, and device-tracking CLI compatibility

IP device tracking	IPv6 snooping	SISF-based device tracking
IP device tracking probe count	Not Supported	Not Supported
IP device tracking probe delay	ipv6 neighbor binding reachable-lifetime	device-tracking policy reachable-lifetime
IP device tracking probe interval	ipv6 snooping tracking retry-interval	device-tracking policy retry-interval
IP device tracking probe use-svi	Accepted and interpreted as IP device tracking probe auto-source override	Accepted and interpreted as IP device tracking probe auto-source override

Contents

Introduction

Purpose of this guide

Why migrate?

System hardware

System software

System default behavior

Operations

Software features

Cisco Catalyst 2960CX/3560CX Series platform-specific commands

Conclusion

Appendix A

How to buy

IP device tracking	IPv6 snooping	SISF-based device tracking
IP device tracking probe auto-source fallback	Not supported	Not supported
IP device tracking probe auto-source override	Not supported	Not supported
IP device tracking tracebuffer	Not supported	Not supported
IP device tracking maximum	ipv6 snooping policy <name> limit	device-tracking snooping policy <name> limit
IP device tracking probe count	Not supported	Not supported
IP device tracking probe interval	Not supported	Not supported
Clear IP device tracking all	Not supported	Not supported

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