

## Cisco Announces IPv6 Licensing Parity with IPv4 for Cisco Catalyst Series Switches

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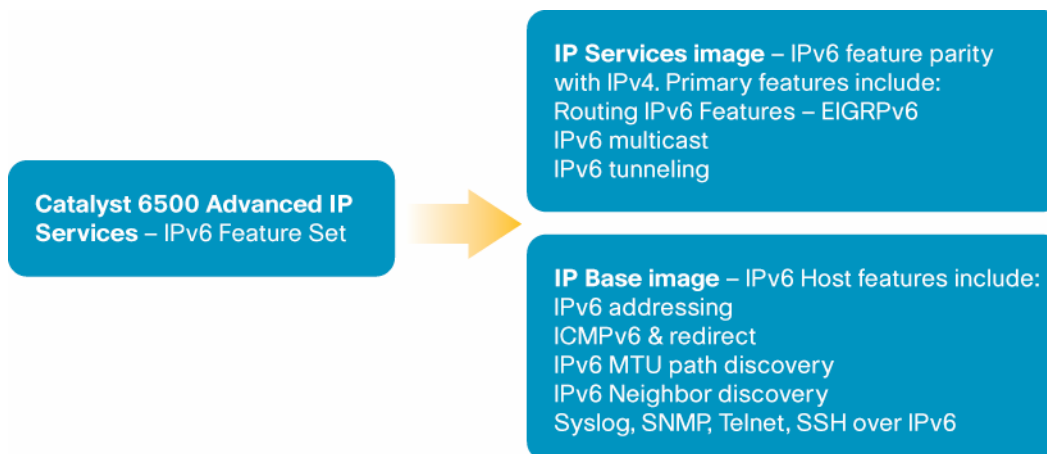
Fundamental to the successful market adoption of the new Internet Protocol (IP) standard are the smooth integration and coexistence of IPv6 on the existing IPv4 Internet. Cisco believes that both IPv4 and IPv6 versions will coexist for the foreseeable future, and in order to facilitate a smooth and secure customer transition to IPv6, Cisco has recently announced new Cisco IOS® Software releases.

Cisco is driving toward the IPv6 reformation package leading with the Cisco® Catalyst® switches by offering IPv6 licensing parity with IPv4.

### Cisco Catalyst 6500 with Cisco IOS Software Release 12.2(33) SXI

Cisco has announced Cisco IOS Software Release 12.2(33) SXI, delivering IPv6 licensing parity with IPv4 on the Cisco Catalyst 6500 Series Switches. With the availability of Cisco IOS Software Release 12.2(33) SXI, customers no longer have to pay for an additional software license to get IPv6 functionality on the Cisco Catalyst 6500 Series Switches. Figure 1 depicts IPv6 software feature licensing in Release 12.2(33) SXI.

**Figure 1.** Cisco IOS software Release 12.2(33)SXI software Feature Licensing



The premier Cisco Catalyst switching platform, Cisco Catalyst 6500, leads IPv6 innovations by extending support of dual-stack architecture starting with the Cisco IOS Software Release 12.2(33) SXI train. Along with enabling IPv6 features, Cisco IOS Software Release 12.2(33) SXI has also enabled the platform to be “IPv6 Phase 2 Logo” certified.

Primary IPv6 Enhancements in Cisco IOS Software Release 12.2(33) SXI include:

- IPv6 licensing parity with IPv4
- Extended IPv6 routing protocol portfolio with support of EIGRPv6
- Enhanced network resiliency with GLBPv6 and HSRPv6
- Simplified auto configuration for end host through DHCPv6 relay agent
- Enable IPv6 VPN across MPLS networks with 6vPE and 6PE multipath support

- Extensions to managing switching infrastructure with support of SNMPv6 and syslog over IPv6
- Securing IPv6 transport across public networks with IPsec for IPv6 supported by VPN SPA (VSPA)
- Extension of IPv6 support onto Virtual Switching System (VSS) (available in 12.2(33)SX12)

Additionally, Cisco IOS Software Release 12.2SX provides leading-edge new features, software modularity, high availability, and hardware support for the Cisco Catalyst series switches. It also integrates Cisco IOS Software innovations spanning multiple technology areas, including security, high availability, QoS, MPLS and VPNs, IP addressing and services, IPv6, IP routing and multicast, and embedded management, which are included in Cisco portfolio upgrades.

The Cisco IOS 12.2(33) SXI release enables IPv6 customers to:

- Easily deploy end-to-end dual-stack IPv4/IPv6 campus networks
- Extend benefits of network virtualization to IPv6 running devices with 6vPE, IPv6 support on VSS (available in 12.2(33)SX12)
- Enable network infrastructure management across IPv6 networks
- Help ensure secure IPv6 transport across public networks with hardware accelerated IPsec encryption
- Increase IPv6 adoption by making IPv6 software functionality available in parity with IPv4: customers no longer have to pay additional software license to get IPv6 functionality

The Cisco Catalyst 6500 switch inherently delivers hardware-based IPv6 forwarding along with a broad range of IPv6 features enabling an end-to-end solution across all places in the network (PIN). Cisco IOS Software Release 12.2(33) SXI enables critical features that further extend the 6500 role as the “industry’s leading” IPv6 platform.

## **Release 12.2SX Additional Information**

### **Cisco IOS Software Information**

[http://www.cisco.com/en/US/products/sw/iosswrel/products\\_ios\\_cisco\\_ios\\_software\\_category\\_home.html](http://www.cisco.com/en/US/products/sw/iosswrel/products_ios_cisco_ios_software_category_home.html)

### **Release 12.2SX Information**

[http://www.cisco.com/en/US/products/ps6017/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps6017/tsd_products_support_series_home.html)

[http://www.cisco.com/en/US/products/hw/switches/ps708/prod\\_bulletin0900aecd804f0694.html](http://www.cisco.com/en/US/products/hw/switches/ps708/prod_bulletin0900aecd804f0694.html)

### **Cisco IOS Software Product Lifecycle Dates and Milestones**

[http://www.cisco.com/en/US/prod/collateral/iosswrel/ps8802/ps6969/ps1835/prod\\_bulletin0900aecd801eda8a\\_ps6441\\_Products\\_Bulletin.html](http://www.cisco.com/en/US/prod/collateral/iosswrel/ps8802/ps6969/ps1835/prod_bulletin0900aecd801eda8a_ps6441_Products_Bulletin.html)

### **Cisco IOS Software Center**

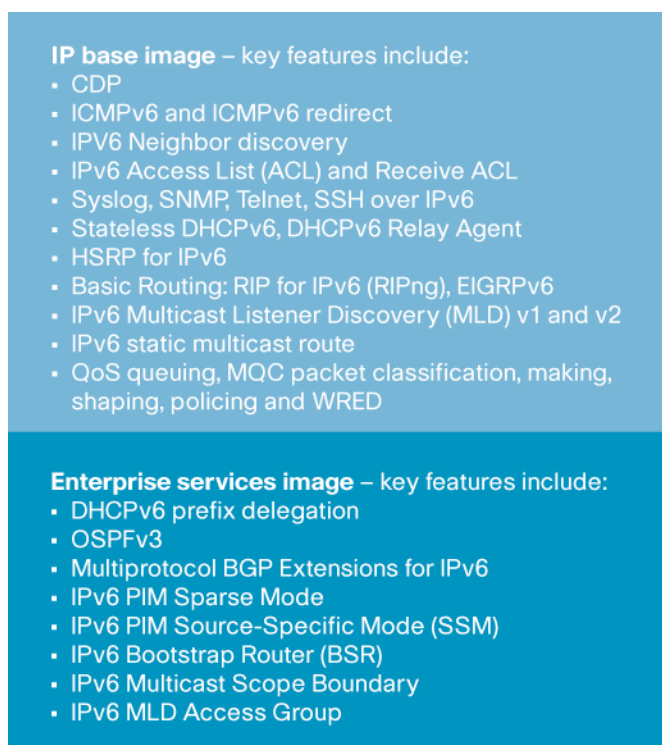
Download Cisco IOS Software releases and access software upgrade planners.

<http://www.cisco.com/public/sw-center/>

## Cisco Catalyst 4500 Series Switches with Cisco IOS Software Release 12.2(52)SG Software Release

Cisco has announced Cisco IOS Software Release 12.2(52)SG for Cisco Catalyst 4500 Series Switches. With the availability of Cisco IOS Software Release 12.2(52)SG, customers need no additional software license to get IPv6 functionality on the Cisco Catalyst 4500 Series Switches. IPv6 software licensing on Cisco Catalyst 4500 switches will follow the same model as IPv4. (See Figure 2.)

**Figure 2.** Cisco IOS Software Release 12.2(52)SG IP Base Image Key Features



Cisco Catalyst 4500 Series Switches support a broad range of IPv6 functionalities. Primary IPv6 features available on Cisco Catalyst 4500 switches prior to 12.2(52) SG include:

- IPv6 unicast routing: RIPng, EIGRPv6, OSPFv3, multiprotocol BGP extension for IPv6
- IPv6 multicast: PIM-SM, PIM-SSM, IPv6 BSR, MLD snooping
- Network management: SNMP, syslog over IPv6, ICMPv6
- DHCP relay agent for IPv6

With the above features and hardware forwarding capability on Supervisor Engine WS-X45-SUP6-E, Cisco Catalyst 4500 Series Switches have become one leading platform to enable IPv6 adoption on enterprise campuses and dual-stack IPv4 and IPv6 deployments.

Primary IPv6 enhancements in Cisco IOS Software Release 12.2(52) SG include:

- IPv6 licensing parity with IPv4: customers no longer have to pay additional software license to get IPv6 functionality
- Enhanced network resiliency with HSRPv6
- Simplified auto configuration for end host through DHCPv6 relay agent enhancement

## **Release 12.2SG Additional Information**

### **Release 12.2SG Software Information**

[http://www.cisco.com/en/US/products/ps9695/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps9695/tsd_products_support_series_home.html)

<http://www.cisco.com/en/US/products/ps9695/index.html>

### **12.2SG Software Download**

<http://tools.cisco.com/support/downloads/go/IOSProductTree.x?relmdfid=282088054&mdfid=268438303>

### **12.2SG Software Product Bulletins**

[http://www.cisco.com/en/US/products/ps9695/prod\\_bulletins\\_list.html](http://www.cisco.com/en/US/products/ps9695/prod_bulletins_list.html)

## Cisco Catalyst 3000 Series Switches with Cisco IOS Software Release 12.2(50) SE

Cisco IOS Software Release 12.2(50)SE for Cisco Catalyst 3000 Series Switches furthers Cisco's leadership by providing enhanced routing, resiliency, security, and manageability features for Metro Ethernet deployments. With the availability of Cisco IOS Software Release 12.2(50) SE there is no additional software license to get IPv6 functionality on the Cisco Catalyst 3000 Series Switches.

Primary IPv6 enhancements in Cisco IOS Software Release 12.2(50) SE include:

- Access control lists (ACLs)
- Dynamic Host Configuration Protocol (DHCP)
- IPv6: host functions
- IPv6: stateless autoconfig
- IPv6: default router preference

### Release 12.2(50) SE Additional Information

#### Software Download

Software is available for download from the following sites:

- Cisco IOS Software upgrade planner: <http://www.cisco.com/cgi-bin/Software/iosplanner/Planner-tool/iosplanner.cgi?majorRel=>
- Guest-level access planner: <http://www.cisco.com/kobayashi/sw-center/index.shtml>

Because of export restrictions on strong cryptography software, a separate image is required for the cryptographic features (Secure Shell [SSH] Protocol, Simple Network Management Protocol [SNMP] v3, and Kerberos Protocol). These software images can be downloaded from the corresponding Triple Data Encryption Standard (3DES) area of the links provided in this section. Note that the Cisco Advanced IP Services license is available only in cryptographic format.



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