

# Cisco IOS Software Release 12.2(46)SG1 for Cisco Catalyst 4500 Series Supervisor II-PLUS-10GE

## Overview

This product bulletin describes the hardware and software features supported by Cisco IOS® Software Release 12.2(46)SG1 for the Cisco® Catalyst® 4500 Series Supervisor Series Engine II-PLUS-10GE.

## Primary Release Message

Cisco announces Cisco IOS Software Release 12.2(46)SG1 for all shipping Cisco Catalyst 4500 Supervisor Series Engines II-PLUS-10GE, which includes a new Lan Based and IP upgrade image.

## Overview

The following new features of Cisco IOS Software Release 12.2(46)SG1 are applicable to Cisco Catalyst 4500 Series:

### Supervisor II-Plus-10GE

Release 12.2(46)SG1 introduces a new LAN Base Software image and an IP upgrade image. These will complement the existing IP Base and Enterprise Services image.

The LAN base image is supported on the Supervisor II-Plus-10GE only. It is primarily focused on customers Layer 2 requirements and therefore many of the IP Base features have been removed. If at a later date some or all of the features are required, the IP upgrade image is available.

## Software Features

Release 12.2(46)SG1 introduces a new LAN Base Software image and an IP upgrade image. Lan Base supports all the features available on the IP Base image except for the features outlined in the following table.

**Table 1.** Cisco IOS Software Release 12.2(46)SG1 Features not supported on the Lan Base image.

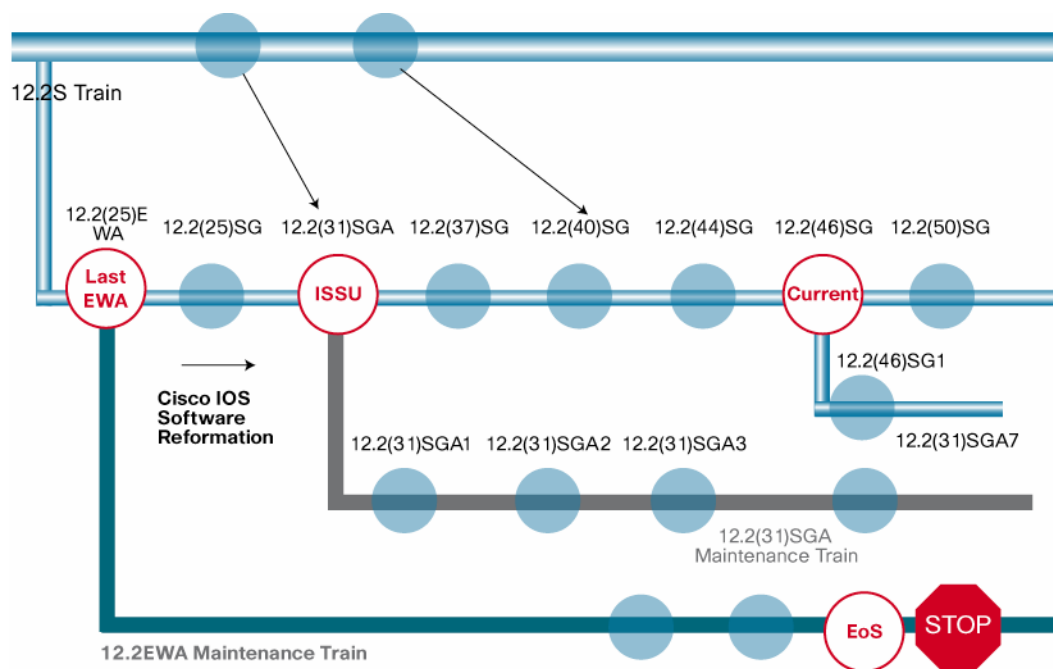
| Feature         |
|-----------------|
| Auto-QoS        |
| CTS             |
| EEM             |
| EIGRP Stub      |
| EPoE/PoE+       |
| FHRP(HSRP/VRRP) |
| Flex Link       |
| GLBP            |
| ISSU            |
| L2PT            |
| MLD Snooping    |
| Netflow         |

| Feature                        |
|--------------------------------|
| QinQ                           |
| PIM SM/DM                      |
| PVST+                          |
| RPVST+                         |
| Smartports (Role based Macros) |
| SSO                            |
| TDR                            |
| Ten Gig Uplinks                |
| WCCP                           |

## Cisco Catalyst 4500 Cisco IOS Software Release Trains

Figure 1 shows the release train for 12.2(46)SG, a time-based new feature release.

**Figure 1.** Cisco IOS Software 12.2(46)SG Release Train



## Cisco Catalyst 4500 Cisco IOS Software Migration Guide

- Customers requiring the latest Cisco Catalyst 4500 Series hardware and software features should migrate to Cisco IOS Software Release 12.2(46)SG.
- Cisco IOS Software Release 12.2(31)SGA will continue offering maintenance releases.
- Support

Support for Cisco IOS Software Release 12.2(46)SG1 follows the standard Cisco support policy, available at [http://www.cisco.com/en/US/products/products\\_end-of-life\\_policy.html](http://www.cisco.com/en/US/products/products_end-of-life_policy.html).

For more information about the Cisco Catalyst 4500 Series, visit <http://www.cisco.com/univercd/cc/td/doc/product/lan/cat4000/index.htm>.

## Ordering Information

Tables 2 and 3 provide product numbers and ordering information for Cisco IOS Software Release 12.2(46)SG 1 and supporting hardware.

**Table 2.** Cisco IOS Software Release 12.2(46)SG1 Product Numbers and Images for Cisco Catalyst 4500 Series

| Product Number       | Description   | Image                |
|----------------------|---|----------------------|
| S45LB-12246SG(=)     | Cisco IOS software for the Catalyst 4500 Series Supervisor Engine II-Plus-10GE  | cat4500-lanbase-mz   |
| S45LBK9-12246SG(=)   | Cisco IOS software for the Catalyst 4500 Series Supervisor Engine II-Plus-10GE (LAN Base image with Triple Data Encryption Standard (3DES))         | cat4500-lanbasek9-mz |
| S45IPBU-12246SG(=)   | Cisco IOS software for the Catalyst 4500 Series Supervisor Engine II-Plus-10GE. (IP Base upgrade image)   | cat4500-ipbase-mz    |
| S45IPBUK9-12246SG(=) | Cisco IOS software for the Catalyst 4500 Series Supervisor Engine II-Plus-10GE. (IP Base upgrade image with Triple Data Encryption Standard (3DES)) | cat4500-ipbasek9-mz  |

**Table 3.** Cisco IOS Software Release 12.2(46)SG1 Hardware Support for Cisco Catalyst 4500 Series

| Product Number       | Description   |
|----------------------|---|
| WS-X4013+10GE        | Cisco Catalyst 4500 Series Supervisor Engine II-Plus-10GE   |
| WS-C4503             | Cisco Catalyst 4503 Switch chassis  |
| WS-C4503-E           | Cisco Catalyst 4503 E-Series Switch chassis   |
| WS-C4506             | Cisco Catalyst 4506 Switch chassis  |
| WS-C4506-E           | Cisco Catalyst 4506 E-Series Switch chassis   |
| WS-C4507R            | Cisco Catalyst 4507R Switch chassis   |
| WS-C4507R-E          | Cisco Catalyst 4507R E-Series Switch chassis  |
| WS-C4510R            | Cisco Catalyst 4510R Switch chassis   |
| WS-C4510R-E          | Cisco Catalyst 4510R E-Series Switch chassis  |
| WS-X4124-FX-MT(=)    | Cisco Catalyst 4500 Series 24-port Fast Ethernet switching module, 100BASE-FX multimode fiber (MMF), MTRJ |
| WS-X4124-RJ45(=)     | Cisco Catalyst 4500 Series 24-port 10/100 module (RJ-45)  |
| WS-X4148-FX-MT(=)    | Cisco Catalyst 4500 Series 48-port Fast Ethernet switching module, 100BASE-FX, MMF, MTRJ                  |
| WS-X4148-FE-LX-MT(=) | Cisco Catalyst 4500 Series 48-port Fast Ethernet switching module, 100BASE-LX10 single-mode fiber, MTRJ   |
| WS-X4148-RJ(=)       | Cisco Catalyst 4500 Series 48-port 10/100 module (RJ-45)  |
| WS-X4148-RJ21(=)     | Cisco Catalyst 4500 Series 48-port 10/100 module, telco (4xRJ-21)   |
| WS-X4148-RJ45V(=)    | Cisco Catalyst 4500 Series 48-port inline power 10/100 module (RJ-45)                                     |
| WS-X4148-FE-BD-LC(=) | Cisco Catalyst 4500 Series 48-port 100BASE-BX10-D line card   |
| WS-X4224-RJ45V(=)    | Cisco Catalyst 4500 Series 24-port Power over Ethernet (PoE) 10/100 module (RJ-45)                        |
| WS-X4232-GB-RJ(=)    | Cisco Catalyst 4500 Series 32-port 10/100 (RJ-45), 2-port Gigabit Ethernet module (GBIC)                  |
| WS-X4232-RJ-XX(=)    | Cisco Catalyst 4500 Series 32-port 10/100 (RJ-45) with modular uplink slot                                |
| WS-X4248-FE-SFP(=)   | Cisco Catalyst 4500 Series 48-port 100BASE-X (SFP optics optional)  |
| WS-X4248-RJ45V(=)    | Cisco Catalyst 4500 Series 48-port PoE 10/100 (RJ-45)   |
| WS-X4248-RJ21V(=)    | Cisco Catalyst 4500 Series 48-port PoE 10/100, telco (4xRJ-21)  |
| WS-X4424-GB-RJ45(=)  | Cisco Catalyst 4500 Series 24-port 10/100/1000 module (RJ-45)   |
| WS-X4306-GB(=)       | Cisco Catalyst 4500 Series 6-port Gigabit Ethernet module (GBIC)  |
| WS-X4302-GB(=)       | Cisco Catalyst 4500 Series 2-port Gigabit Ethernet line card (GBIC)                                       |
| WS-X4412-2GB-T(=)    | Cisco Catalyst 4500 Series 12-port Gigabit Ethernet module, 1000BASE-T (RJ-45) with two 1000BASE-X GBICs  |

| Product Number        | Description  |
|-----------------------|--|
| WS-X4418-GB (=)       | Cisco Catalyst 4500 Series 18-port Gigabit Ethernet module, server switching (GBIC)  |
| WS-X4448-GB-RJ45 (=)  | Cisco Catalyst 4500 Series 48-port 10/100/1000 module (RJ45)   |
| WS-X4448-GB-SFP (=)   | Cisco Catalyst 4500 Series 48-port 1000BASE-X (SFP optics optional)  |
| WS-X4506-GB-T (=)     | Cisco Catalyst 4500 Series 6-port alternatively wired 10/100/1000 PoE or 1000BASE-X, SFP optics  |
| WS-X4524-GB-RJ45V (=) | Cisco Catalyst 4500 Series 24-port PoE 10/100/1000 line card (RJ-45)   |
| WS-X4548-GB-RJ45 (=)  | Cisco Catalyst 4500 Series 48-port 10/100/1000 line card (RJ45)  |
| WS-X4548-GB-RJ45V (=) | Cisco Catalyst 4500 Series 48-port PoE 10/100/1000 line card (RJ45)  |
| WS-U4504-FX-MT (=)    | Cisco Catalyst 4500 Series 4-port uplink daughter card 100BASE-FX (MTRJ)   |
| WS-G5483=             | 1000BASE-T GBIC  |
| WS-G5484 (=)          | 1000BASE-SX short-wavelength GBIC (multimode only)   |
| WS-G5486 (=)          | 1000BASE-LX/LH long-haul GBIC (single-mode or multimode)   |
| WS-G5487 (=)          | 1000BASE-ZX extended-reach GBIC (single-mode)  |
| MEM-C4K-FLD64M (=)    | Cisco Catalyst 4500 Series Compact Flash, 64-MB option   |
| MEM-C4K-FLD128M (=)   | Cisco Catalyst 4500 Series Compact Flash, 128-MB option  |
| PWR-C45-4200ACV       | Cisco Catalyst 4500 4200W AC dual input power supply (data + PoE)  |
| PWR-C45-2800ACV       | 2800W AC power supply for Cisco Catalyst 4503, 4506, and 4507R chassis   |
| PWR-C45-1400DC        | Cisco Catalyst 4500 Series 1400W DC power supply   |
| PWR-C45-1400DC-P      | Cisco Catalyst 4500 Series 1400W DC power supply with integrated PEM   |
| PWR-C45-1400AC        | Cisco Catalyst 4500 Series 1400W AC power supply (data only)   |
| PWR-C45-1300ACV       | 1300W AC power supply for Cisco Catalyst 4503, 4506, and 4507R chassis   |
| PWR-C45-1000AC        | 1000W AC power supply for Cisco Catalyst 4503, 4506, and 4507R chassis (data only)   |
| CWDM-GBIC-xxxx        | Cisco 1000BASE coarse wavelength-division multiplexing (CWDM) xxxx nm GBIC, where xxxx is the number 1470, 1490, 1510, 1530, 1550, 1570, 1590, or 1610 |
| DWDM-GBIC-xx.yy       | Cisco 1000BASE dense wavelength-division multiplexing (DWDM) ITU 100-GHz grid 15xx.yy nm GBIC  |
| DWDM-SFP-xx.yy        | Cisco 1000BASE dense wavelength-division multiplexing (DWDM) ITU 100-GHz grid 15xx.yy nm SFP   |
| WDM-GBIC-REC=         | Cisco receive-only 1000BASE-WDM GBIC   |



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