

# Catalyst 8500/LightStream 1010 12.1(5)EY Release Feature List

## Introduction

This product bulletin describes the new features introduced with the Catalyst® 8500/LightStream® 1010 12.1(5)EY12.1(5)EY release. New features include the introduction of new hardware and software functionality for the Catalyst 8500/LightStream 1010 Family which consists of either Catalyst 8540 or Catalyst 8510/LightStream 1010 platforms. All hardware and software features apply to both the MSR and CSR images, unless a particular image is specifically stated.

## New Features

Catalyst 8540 MSR:

### ATM Router Module II

- RFC 1483 PVC and SVC (ATM Adaptation Layer 5 [AAL5]: Logical Link Control [LLC] / SubNetwork Attachment Point [SNAP] and MUX encapsulation)
- RFC 1577 PVC and SVC
- ACL support for IP (standard and extended) & IPX (standard)
- Jumbo frame support of a maximum transmit unit (MTU) of 9K bytes
- IP fragmentation support
- OAM-based PVC management

Catalyst 8500 family and LightStream 1010:

**On-line/Power-on Diagnostics** - Additional software enhancements are available on the Catalyst 8540 platform, including the following:

- On-line Insertion and Removal (OIR) diagnostics
- Switch Card (SWC) bus / Port Adaptor Module (PAM) bus accessibility
- Snake loopback test at power-on
- Enhanced Power-on Diagnostics
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**PAgP** - New software features are available on the Catalyst 8540 platform, including the following:

- Point-to-point ports/interfaces aggregated into an agport
- Dynamic change of an agport as interfaces fail/heal
- Composition and statistics on the agport and its members (Full MIBs)
- Automatic avoid delay/disruption through IEEE 802.1D standard

- Detect, report, and prevent unidirectional point-to-point interfaces
- Detect report, and prevent incorrectly paired bidirectional point-to-point interfaces

### Detailed Information

For more detailed information about the platforms and features being delivered in 12.1(5)EY please reference the following documents:

[http://www.cisco.com/univercd/cc/td/doc/product/13sw/8540/12\\_1/pereg\\_1/rel\\_note/rel\\_not.htm](http://www.cisco.com/univercd/cc/td/doc/product/13sw/8540/12_1/pereg_1/rel_note/rel_not.htm)

[http://www.cisco.com/univercd/cc/td/doc/product/13sw/8510/12\\_1/pereg\\_1/rel\\_note/r7812262.htm](http://www.cisco.com/univercd/cc/td/doc/product/13sw/8510/12_1/pereg_1/rel_note/r7812262.htm)

### Support

Cisco IOS software release 12.1(5)EY follows the standard Cisco support policy as indicated in the following link.

<http://www.cisco.com/warp/public/437/27.html>

### Supported Hardware Platform

Cisco IOS Software Release 12.1(5)EY supports:

- Cisco Catalyst 8540/8510
- LightStream 1010

### Product Number and Description

Platform	Product Number	Image	Flash	DRAM
<b>MSR</b>				
Catalyst 8540 MSR	S854R2-12105EY	cat8540m-wp-mz	16MB	256MB
Catalyst 8510 MSR	S851R2-12105EY	cat8510m-wp-mz	16MB	64MB
<b>CSR</b>				
Catalyst 8540 CSR	S854R3-12105EY	cat8540c-in-mz	16MB	256MB
Catalyst 8510 CSR	S851R3-12105EY	cat8510c-in-mz	16MB	64MB
<b>LightStream 1010</b>				
LightStream 1010	SL10R2-12105EY	ls1010-wp-mz	16MB	64MB

### Download Information

Customers can download Cisco IOS Release 12.1(5)EY software from Cisco Connection Online (CCO) in the Software Image Library.

<http://www.cisco.com/cgi-bin/Software/Iosplanner/Planner-tool/iosplanner.cgi>