



# Multicast Catalyst Switches Support Matrix

[TAC Notice: What's Changing on TAC Web](#)

Document ID: 29480

Help us help you.

Please rate this document.

- Excellent
- Good
- Average
- Fair
- Poor

This document solved my problem.

- Yes
- No
- Just browsing

Suggestions for improvement:

(256 character limit)

Send

## Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Conventions](#)

[CGMP and IGMP Snooping Catalyst Switches Support Matrix](#)

[CGMP Feature Catalyst Switches Support Matrix](#)

[IGMP Snooping Feature Catalyst Switch Support Matrix](#)

[GMRP and RGMP Catalyst Switches Support Matrix](#)

[NetPro Discussion Forums - Featured Conversations](#)

[Related Information](#)

## Introduction

This document provides information regarding support of Layer 2 (L2) multicast features in various Cisco Catalyst switch series.

The following tables provide more information:

- [CGMP and IGMP Snooping Catalyst Switches Support Matrix](#)
- [CGMP Feature Catalyst Switches Support Matrix](#)
- [IGMP Snooping Feature Catalyst Switch Support Matrix](#)
- [GMRP and RGMP Catalyst Switches Support Matrix](#)

Refer to the [IP Multicast](#) support page for additional information on implementing the multicast feature and for sample configurations and troubleshooting tips.

## Prerequisites

### Requirements

There are no specific requirements for this document.

## Components Used

This document is not restricted to specific software and hardware versions.

## Conventions

For more information on document conventions, refer to the [Cisco Technical Tips Conventions](#).

## CGMP and IGMP Snooping Catalyst Switches Support Matrix

The following table provides information regarding Cisco Group Management Protocol (CGMP) and Interior Gateway Management Protocol (IGMP) snooping feature support in Cisco Catalyst switches.

Catalyst Platform	CGMP (Minimum Software Version)	Default	IGMP Snooping (Minimum Software Version)	Default	IGMP V3 (Minimum Software Version)
<a href="#">Catalyst 6000 - Catalyst OS (CatOS) Software</a>	Not supported (1).	N/A	Yes (all versions).	Enabled (since 5.5.9 and 6.3.1).	Yes (7.5) (2).
<a href="#">Catalyst 6000- Cisco IOS® Software</a>	Not supported (1).	N/A	Yes (all versions).	Enabled.	Yes (Cisco IOS Software Release 12.1(8a)E).
<a href="#">Catalyst 5000</a>	Yes (2.2).	Disabled.	Yes (4.1) (3).	Disabled.	Not supported.
<a href="#">Catalyst 4000 (2948G/4912G/2980G) - CatOS (Supervisor Engine 1/2)</a>	Yes (2.2).	Disabled.	Not supported.	N/A	Not supported.
<a href="#">Catalyst 4000 - Cisco IOS (Supervisor Engine 2+/3/4/5)</a>	Not supported (1).	N/A	Yes (all versions).	Enabled.	Yes (Cisco IOS Software Release 12.1(19)EW).
<a href="#">Catalyst 3550</a>	Not supported (1).	N/A	Yes (all versions).	Enabled.	Yes (Cisco IOS Software Release 12.1(19)EA1).
			Yes (Cisco IOS		Yes (Cisco IOS

<a href="#">Catalyst 3560</a>	Not Supported.	N/A	Software Release 12.1(19) EA1).	Enabled.	Software Release 12.1(19) EA1).
<a href="#">Catalyst 3750</a>	Not supported (1).	N/A	Yes (all versions).	Enabled.	Yes (Cisco IOS Software Release 12.1(19) EA1).
<a href="#">Catalyst 2940</a>	Not supported (1).	N/A	Yes (all versions).	Enabled.	Yes (Cisco IOS Software Release 12.1(19) EA1).
<a href="#">Catalyst 2950/2955</a>	Not supported.	N/A	Yes (all versions).	Enabled.	Yes (Cisco IOS Software Release 12.1(19) EA1).
<a href="#">Catalyst 2970</a>	Not supported.	N/A	Yes (all versions).	Enabled.	Yes (Cisco IOS Software Release 12.1(19) EA1).
<a href="#">Catalyst 2900XL/3500XL</a>	Yes (all versions).	Enabled.	Not supported.	N/A	Not supported.
<a href="#">Catalyst 2948G-L3 / 4908G-L3</a>	Yes (supports CMF in all versions) (4).	N/A	Not supported.	N/A	Not supported.
<a href="#">Catalyst 1900/2820</a>	Yes (5.33).	Disabled.	Not supported.	N/A	Not supported.
<a href="#">Catalyst 8500</a>	Yes (supports CMF in all versions) (4).	Disabled.	Not supported.	N/A	Not supported.

- (1) The CGMP server feature is supported in Multilayer Switch Feature Card (MSFC), MSFC2, Catalyst 4000 Supervisor Engine III/IV and Catalyst 3550 and 3750 switches. The CGMP L2 feature is not supported.
- (2) On Catalyst 6500s, before software release 6.3(10), an IGMP Version 3 (V3) packet with more than one group in the same packet was discarded. This has been rectified in software

release 6.3(10). Software releases 6.3(x) run IGMP Version 2 (V2), and there is no support for V3. An IGMP V3 report is treated as a set of IGMP V2 reports for each of the multicast groups forming the group records in IGMP V3. This happens regardless of the filter mode of the IGMP V3 report. Refer to Cisco bug ID [CSCdw61628](#) (registered customers only) for more information. IGMP V3 is supported beginning with version 7.5 software (only in Supervisor Engine II-based Catalyst 6500 systems), and Cisco IOS Software Release 12.1(11b)E1 or later is required on the MSFC2.

- (3) For Catalyst 5000s, Supervisor Engine II G or III G, or Supervisor Engine III with a NetFlow Feature Card (NFFC) or NFFC II, is required for IGMP snooping support. Supervisor Engine software release 4.1 or later is required. Certain hardware requires a later version of software. (For example, the NFFC II requires software release 4.3 or later.)
- (4) Constrained Multicast Flooding (CMF) is a Cisco IOS Software method of performing IGMP snooping. It was created for Cisco IOS Layer 3 switches.

## CGMP Feature Catalyst Switches Support Matrix

The following table lists the CGMP feature support and the commands to enable the feature.

Catalyst Platform	CGMP	CGMP leave	Fastleave
<a href="#">Catalyst 5000</a>	<code>set cgmp {enable   disable}</code>	<code>set cgmp leave {enable   disable}</code>	Not supported.
<a href="#">Catalyst 4000 (2948G/4912G/2980G) - CatOS (Supervisor Engine 1/2)</a>	<code>set cgmp {enable   disable}</code>	<code>set cgmp leave {enable   disable}</code>	<code>set cgmp fastleave {enable   disable}</code>
<a href="#">Catalyst 2900XL/3500XL</a>	<code>[no] cgmp</code>	<code>[no] cgmp leave processing</code>	Not supported.
<a href="#">Catalyst 2948G-L3 / 4908G-L3</a>	<code>[no] bridge cmf</code>	Not supported.	Not supported.
<a href="#">Catalyst 1900/2820</a>	<code>[no] cgmp</code>	<code>[no] cgmp leave processing</code>	Not supported.
<a href="#">Catalyst 8500</a>	<code>[no] bridge cmf</code>	Not supported.	Not supported.

## IGMP Snooping Feature Catalyst Switch Support Matrix

The following table lists IGMP snooping, IGMP querier, and filtering feature support and the commands needed to enable the feature.

Catalyst Platform	IGMP Snooping	IGMP Fastleave	IGMP Filtering (Minimum Software Version)	IGMP Querier (Minimum Software Version)
<a href="#">Catalyst 6000 - CatOS Software</a>	set igmp {enable   disable}	set igmp fastleave {enable   disable}	Not supported.	set igmp querier {disable   enable} <i>vlan_id</i>  7.1
<a href="#">Catalyst 6000- Cisco IOS Software</a>	[no] ip igmp snooping	[no] ip igmp snooping fastleave	Not supported.	[no] ip igmp snooping querier  (under VLAN interface)  (Cisco IOS Software Release 12.1(8a)E)
<a href="#">Catalyst 5000</a>	set igmp {enable   disable}	set igmp fastleave {enable   disable}	Not supported.	Not supported.
<a href="#">Catalyst 4000 - Cisco IOS Software (Supervisor Engine 2+/3/4)</a>	[no] ip igmp snooping	[no] ip igmp snooping fastleave	Yes, refer to <a href="#">IGMP Filtering</a> .  (Cisco IOS Software Release 12.1(11b)EW)	Currently not supported.
<a href="#">Catalyst 3550</a>	[no] ip igmp snooping	[no] ip igmp snooping <i>vlan_id</i> immediate-leave	Yes, refer to <a href="#">IGMP Filtering</a> .  (Cisco IOS Software Release 12.1(8)EA1)	Currently not supported.
<a href="#">Catalyst</a>	[no] ip	[no] ip igmp snooping	Yes, refer to <a href="#">IGMP Filtering</a> . (Cisco IOS	Currently

<a href="#">3750</a>	<b>igmp snooping</b>	<b><i>vlan_id</i> immediate-leave</b>	Software Release 12.1(11) AX)	not supported.
<a href="#">Catalyst 2940</a>	<b>[no] ip igmp snooping</b>	<b>[no] ip igmp snooping <i>vlan_id</i> immediate-leave</b>	Yes, refer to <a href="#">IGMP Filtering</a> . (Cisco IOS Software Release 12.1(11) AX)	Currently not supported.
<a href="#">Catalyst 2950/2955</a>	<b>[no] ip igmp snooping</b>	<b>[no] ip igmp snooping <i>vlan_id</i> immediate-leave</b>	Yes, refer to <a href="#">IGMP Filtering</a> . (Cisco IOS Software Release 12.1(9) EA1)	Currently not supported.
<a href="#">Catalyst 2970</a>	<b>[no] ip igmp snooping</b>	<b>[no] ip igmp snooping <i>vlan_id</i> immediate-leave</b>	Yes, refer to <a href="#">IGMP Filtering</a> . (Cisco IOS Software Release 12.1(11) AX)	Currently not supported.

## GMRP and RGMP Catalyst Switches Support Matrix

The following table lists support for Generic Attribute Registration Protocol (GARP) Multicast Registration Protocol (GMRP) and Router-Port Group Management Protocol (RGMP) support on Catalyst switches.

<b>Catalyst Platform</b>	<b>GMRP (Minimum Software Version)</b>	<b>RGMP (Minimum Software Version)</b>
<a href="#">Catalyst 6000 - CatOS Software</a>	Yes (5.2).	Yes (5.4).
<a href="#">Catalyst 6000 - Cisco IOS Software</a>	Not supported.	Yes (Cisco IOS Software Release 12.1E).
<a href="#">Catalyst 5000</a>	Yes <sup>(1)</sup> (5.1).	Yes (5.4).
<a href="#">Catalyst 4000 (2948G/4912G/2980G) -</a>		Not

<a href="#">CatOS (Supervisor Engine 1/2)</a>	Yes (5.1).	supported.
<a href="#">Catalyst 4000 - Cisco IOS Software (Supervisor Engine 2+/3/4)</a>	Not supported.	Not supported.
<a href="#">Catalyst 3550</a>	Not supported.	Not supported.
<a href="#">Catalyst 3750</a>	Not supported.	Not supported.
<a href="#">Catalyst 2940</a>	Not supported.	Not supported.
<a href="#">Catalyst 2950/2955</a>	Not supported.	Not supported.
<a href="#">Catalyst 2970</a>	Not supported.	Not supported.
<a href="#">Catalyst 2900XL/3500XL</a>	Not supported.	Not supported.
<a href="#">Catalyst 2948G-L3 /4908G-L3</a>	Not supported.	Not supported.
<a href="#">Catalyst 1900/2820</a>	Not supported.	Not supported.
<a href="#">Catalyst 8500</a>	Not supported.	Not supported.

- <sup>(1)</sup> Catalyst 5000 requires Supervisor Engine II, IIG, III, or IIIG for GMRP support.

### Additional Notes

- You cannot enable GMRP if IGMP snooping is enabled.
- RGMP requires that IGMP snooping is enabled on the switch.
- Both GMRP and RGMP are disabled by default on all supported switches.

## NetPro Discussion Forums - Featured Conversations

Networking Professionals Connection is a forum for networking professionals to share questions, suggestions, and information about networking solutions, products, and technologies. The featured links are some of the most recent conversations available in this technology.

NetPro Discussion Forums - Featured Conversations for LAN
Network Infrastructure: LAN Routing and Switching
<a href="#">Why enable IEEE 802.3Z Flow Control For an EMC device</a> - Aug 12, 2004
<a href="#">IPv6 support in Cat4k &amp; Cat6k</a> - Aug 12, 2004
<a href="#">2940 and IOS upgrade</a> - Aug 12, 2004
<a href="#">2940 Network Crash</a> - Aug 12, 2004
<a href="#">catalyst 5500 problem</a> - Aug 12, 2004

Network Infrastructure: Getting Started with LANs

[Configuring a 6513 720 as a server switch](#) - Aug 11, 2004

[Error installing a VIP4-50 card](#) - Aug 11, 2004

[Large Enterprise Switch vs. Several Smaller Switches](#) - Aug 11, 2004

[Installed new gigabit LAN -> show the bandwidth](#) - Aug 11, 2004

[Can a 4506 Sup IV router act as a DHCP server ...](#) - Aug 11, 2004

---

## Related Information

- [IP Multicast Support Page](#)
- [Multicast in a Campus Network: CGMP and IGMP Snooping](#)
- [Using RGMP: Basics and Case Study](#)
- [Constraining Multicast Traffic with Source and Receivers on the Same VLAN on Catalyst Switches Running Catalyst OS](#)
- [LAN Product Support Pages](#)
- [LAN Switching Support Page](#)
- [Technical Support - Cisco Systems](#)

---

[Home](#)

[How to Buy](#)

[Login](#)

[Profile](#)

[Feedback](#)

[Site Map](#)

[Help](#)

All contents are Copyright © 1992-2004 Cisco Systems, Inc. All rights reserved. [Important Notices](#) and [Privacy Statement](#).

---

Updated: Aug 12, 2004

Document ID: 29480

---