Multicast Catalyst Switches Support Matrix

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](#)
[Related Information](#)

Introduction

This document provides information on the support of Layer 2 multicast features in various Cisco Catalyst Series Switches.

These 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

Refer to the Cisco Technical Tips Conventions for more information on document conventions.

CGMP and IGMP Snooping Catalyst Switches Support Matrix

This table provides information related to Cisco Group Management Protocol (CGMP) and Internet Group 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)
Catalyst 6000 - Catalyst OS (CatOS) Software	Not supported[1]	N/A	Yes (all versions)	Enabled (since 5.5.9 and 6.3.1)	Yes (7.5)[2]
Catalyst 6000- Cisco IOS® Software	Not supported[1]	N/A	Yes (all versions)	Enabled	Yes (Cisco IOS Software Release 12.1(8a)E)
Catalyst 5000	Yes (2.2)	Disabled	Yes (4.1)[3]	Disabled	Not supported
Catalyst 4000 - CatOS (Supervisor Engine 1/2) / (2948G/4912G/2980G)	Yes (2.2)	Disabled	Not supported	N/A	Not supported
Catalyst 4000 - Cisco IOS (Supervisor Engine 2+/3/4/5)	Not supported[1]	N/A	Yes (all versions)	Enabled	Yes (Cisco IOS Software Release 12.1(19)EW)
Catalyst 3550	Not supported[1]	N/A	Yes (all versions)	Enabled	Yes (Cisco IOS Software Release 12.1(19)EA1)

Catalyst 3560	Not Supported	N/A	Yes (Cisco IOS Software Release 12.1(19)EA1)	Enabled	Yes (Cisco IOS Software Release 12.1(19)EA1)
Catalyst 3750	Not supported[1]	N/A	Yes (all versions)	Enabled	Yes (Cisco IOS Software Release 12.1(19)EA1)
Catalyst 2940	Not supported[1]	N/A	Yes (all versions)	Enabled	Yes (Cisco IOS Software Release 12.1(19)EA1)
Catalyst 2950; Catalyst 2955	Not supported	N/A	Yes (all versions)	Enabled	Yes (Cisco IOS Software Release 12.1(19)EA1)
Catalyst 2960	Not supported	N/A	Yes (all versions)	Enabled	Yes (all versions)
Catalyst 2970	Not supported	N/A	Yes (all versions)	Enabled	Yes (Cisco IOS Software Release 12.1(19)EA1)
Catalyst 2900XL; Catalyst 3500XL	Yes (all versions)	Enabled	Not supported	N/A	Not supported
Catalyst 2948G-L3 / Catalyst 4908G-L3	Yes (supports CMF in all versions)[4]	N/A	Not supported	N/A	Not supported
Catalyst 1900 / Catalyst 282	Yes (5.33)	Disabled	Not supported	N/A	Not supported

0					
Catalyst 8500	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 Layer 2 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 is 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

This table lists the CGMP feature support and the commands to enable the feature.

Catalyst Platform	CGMP	CGMP leave	Fastleave
Catalyst 5000	**set cgmp {enable | disable}**	**set cgmp leave {enable | disable}**	Not supported
Catalyst 4000 - CatOS (Supervisor Engine 1/2) / (2948G/4912G/2980G)	**set cgmp {enable | disable}**	**set cgmp leave {enable | disable}**	**set cgmp fastleave {enable | disable}**
Catalyst 2900XL; Catalyst 3500XL	**[no] cgmp**	**[no] cgmp leave processin**	Not supported

		g	
Catalyst 2948G-L3 / Catalyst 4908G-L3	**[no] bridge cmf**	Not supported	Not supported
Catalyst 1900 / Catalyst 2820	**[no] cgmp**	**[no] cgmp leave processing**	Not supported
Catalyst 8500	**[no] bridge cmf**	Not supported	Not supported

IGMP Snooping Feature Catalyst Switch Support Matrix

This table lists IGMP snooping, IGMP querier, IGMP Filtering, IGMP Throttling, and IGMP Multicast VLAN Registration feature support and the commands needed in order to enable the feature.

Catalyst Platform	**IGMP Snooping**	**IGMP Fastleave**	**IGMP Filtering (Minimum Software Version)**	**IGMP Querier (Minimum Software Version)**	**IGMP Throttling (Minimum Software Version)**	**Multicast VLAN Registration (Minimum Software Version)**
Catalyst 6000 - CatOS Software	**set igmp {enable | disable}**	**set igmp fastleave {enable | disable}**	Not supported	**set igmp querier** {**disable** | **enable**} ***vlan_id*** 7.1	Not supported	Not supported
Catalyst 6000- Cisco IOS Software	**[no] ip igmp snooping**	**[no] ip igmp snooping fastleave**	Not supported	**[no] ip igmp snooping querier**	Not supported	Not supported

				(under VLAN interface) (Cisco IOS Software Release 12.1(8a)E)		
Catalyst 5000	**set igmp {enable | disable}**	**set igmp fastleave {enable | disable}**	Not supported	Not supported	Not supported	Not supported
Catalyst 4000 - Cisco IOS Software (Supervisor Engine 2+/3/4)	**[no] ip igmp snooping**	**[no] ip igmp snooping *vlan_id* immediate-leave**	Yes (Cisco IOS Software Release 12.1(11b)EW)	Currently not supported	Not supported	Not supported
Catalyst 3550	**[no] ip igmp snooping**	**[no] ip igmp snooping *vlan_id* immediate-leave**	Yes (Cisco IOS Software Release 12.1(8)EA1)	Currently not supported	Yes (Cisco IOS Software Release 12.1(19)EA1	Yes (Cisco IOS Software Release 12.1(8)EA1
Catalyst	**[no] ip**	**[no] ip igmp snooping**	Yes (Cisco	Yes (Cisc	Yes (Cisc	Yes (Cisc

3560	**igmp snooping**	***vlan_id* immediate-leave**	IOS Software Release 12.1(19)EA1)	o IOS Software Release 12.2(25)SEA)	o IOS Software Release 12.1(19)EA1)	o IOS Software Release 12.1(19)EA1)
Catalyst 3750	**[no] ip igmp snooping**	**[no] ip igmp snooping *vlan_id* immediate-leave**	Yes (Cisco IOS Software Release 12.1(11)AX)	Yes (Cisco IOS Software Release 12.2(25)SEA	Yes (Cisco IOS Software Release 12.1(19)EA1	Yes (Cisco IOS Software Release 12.1(11)AX
Catalyst 2940	**[no] ip igmp snooping**	**[no] ip igmp snooping *vlan_id* immediate-leave**	Yes (Cisco IOS Software Release 12.1(11)AX)	Currently not supported	Yes (Cisco IOS Software Release 12.1(19)EA1	Yes (Cisco IOS Software Release 12.1(13)AY
Catalyst 2950; Catalyst 2955	**[no] ip igmp snooping**	**[no] ip igmp snooping *vlan_id* immediate-leave**	Yes (Cisco IOS Software Release 12.1(9)EA1)	**2950:** Not supported **2955:** Yes (Cisco IOS Software Release 12.1(22)EA4	Yes (Cisco IOS Software Release 12.1(19)EA1	**2950:** Yes (Cisco IOS Software Release 12.1(6)EA2c **2955:** Yes (Cisco IOS Software Release

						12.1(12c)EA1
Catalyst 2960	**[no] ip igmp snooping**	**[no] ip igmp snooping *vlan_id* immediate-leave**	Yes (Cisco IOS Software Release 12.2(25)FX	Yes (Cisco IOS Software Release 12.2(25)FX	Yes (Cisco IOS Software Release 12.2(25)FX	Yes (Cisco IOS Software Release 12.2(25)FX
Catalyst 2970	**[no] ip igmp snooping**	**[no] ip igmp snooping *vlan_id* immediate-leave**	Yes (Cisco IOS Software Release 12.1(11)AX)	Yes (Cisco IOS Software Release 12.2(25)SEA	Yes (Cisco IOS Software Release 12.1(19)EA1	Yes (Cisco IOS Software Release 12.1(11)AX

Additional Notes

1. IGMPv3 join and leave messages are not supported on switches that run IGMP Filtering or Multicast VLAN Registration.
2. Switches support IGMPv3 snooping based only on the destination multicast MAC address and does not support snooping based on the source MAC address or on the proxy reports.

GMRP and RGMP Catalyst Switches Support Matrix

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

Catalyst Platform	GMRP (Minimum Software Version)	RGMP (Minimum Software Version)
Catalyst 6000 - CatOS Software	Yes (5.2)	Yes (5.4)
Catalyst 6000 - Cisco IOS Software	Not supported	Yes (Cisco IOS Software Release 12.1E)
Catalyst 5000	Yes [(1)] (5.1)	Yes (5.4)

Catalyst 4000 - CatOS (Supervisor Engine 1/2) / (2948G/4912G/2980G)	Yes (5.1)	Not supported
Catalyst 4000 - Cisco IOS Software (Supervisor Engine 2+/3/4)	Not supported	Not supported
Catalyst 3550	Not supported	Not supported
Catalyst 3750	Not supported	Not supported
Catalyst 2940	Not supported	Not supported
Catalyst 2950; Catalyst 2955	Not supported	Not supported
Catalyst 2970	Not supported	Not supported
Catalyst 2900XL; Catalyst 3500XL	Not supported	Not supported
Catalyst 2948G-L3 / Catalyst 4908G-L3	Not supported	Not supported
Catalyst 1900 / Catalyst 2820	Not supported	Not supported
Catalyst 8500	Not supported	Not supported

- (1) 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.

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**
- **Switches Product Support**
- **LAN Switching Technology Support**
- **Technical Support & Documentation - Cisco Systems**