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Private VLAN Catalyst Switch Support Matrix

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Introduction

Before You Begin

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Support for the PVLAN Feature in Cisco Catalyst Switches

Related Information

Introduction

Private VLANs (PVLANS) provide Layer (L2) isolation between ports within the same PVLAN. The table in this document summarizes the support of the PVLAN feature in Cisco Catalyst switches.

For more information regarding understanding and implementing networks using PVLANS, refer to *Securing Networks with Private VLANs and VLAN Access Control Lists*. For configuring PVLANS on specific Catalyst switches, click on the switch in the table below to go to the step-by-step configuration guide.

Before You Begin

Conventions

For more information on document conventions, see the *Cisco Technical Tips Conventions*.

Prerequisites

There are no specific prerequisites for this document.

Components Used

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

Support for the PVLAN Feature in Cisco Catalyst Switches

The following table provides information regarding PVLAN feature support in Cisco Catalyst switches:

Catalyst Platform	Software Version	Isolated VLAN	PVLAN Edge (Protected Port)	Community VLAN
Catalyst 6500/6000 – CatOS on Supervisor and Cisco IOS® on	5.4(1) on Supervisor and 12.0(7)XE1 on MSFC	Yes	N/A	Yes

MSFC				
Catalyst 6500/6000 – Cisco IOS® System software	12.1(8a)EX, 12.1(11b)E1	Yes	N/A	Yes
Catalyst 5500/5000	Not Supported	–	–	–
Catalyst 4500/4000 – CatOS	6.2(1)	Yes	N/A	Yes
Catalyst 4500/4000 – Cisco IOS	12.1(8a)EW	Yes	N/A	12.2(20)EW
Catalyst 3550	12.1(4)EA1	No	Yes	Not Currently Supported
Catalyst 2950	12.0(5.2)WC1, 12.1(4)EA1	No	Yes	Not Currently Supported
Catalyst 2900XL/3500XL	12.0(5)XU (on 8MB switches only)	No	Yes	No
Catalyst 2948G–L3 / 4908G–L3	Not Supported	–	–	–
Catalyst 1900	Not Supported	–	–	–
Catalyst 8500	Not Supported	–	–	–
Catalyst 3560	12.2(20)SE – EMI	Yes	12.1(19)EA1	Yes
Catalyst 3750	12.2(20)SE – EMI	Yes	12.1(11)AX	Yes
Catalyst 3750 Metro	12.1(14)AX	No	Yes	No
Catalyst 2940	12.1(13)AY	No	Yes	No
Catalyst 2948G/2980G	6.2	Yes	N/A	Yes
Catalyst 2955	12.1(6)EA2	No	Yes	No
Catalyst 2970	12.1(11)AX	No	Yes	No

Additional Notes:

- The PVLAN edge (protected port) is a feature that has only local significance to the switch, and there is no isolation provided between two protected ports located on different switches. A protected port does not forward any traffic (unicast, multicast, or broadcast) to any other port that is also a protected

port in the same switch and hence providing isolation. Traffic cannot be forwarded between protected ports at L2, all traffic passing between protected ports must be forwarded through a Layer 3 (L3) device.

- PVLAN ports cannot be trunk ports, cannot channel, cannot have dynamic VLAN membership, and cannot be a Switched Port Analyzer (SPAN) destination.
- PVLAN is supported on sc0 in the Catalyst 4500/4000 and Catalyst 6500/6000 running CatOS, in software release 6.3(1) and later.
- Four MB Catalyst 2900XL series switches do not support the protected port feature, as they cannot be upgraded to Cisco IOS 12.0(5) XU or later code. The latest version of code that runs on the Catalyst 2900XL is Cisco IOS 11.2(8)SA6.

Two-way community VLANS in PVLANs are currently not supported on the Catalyst 4500/4000 series switches running Cisco IOS. For additional restrictions see: [Configuring Private VLANs](#)

Related Information

- [Securing Networks with Private VLANs and VLAN Access Control Lists](#)
- [LAN Switches Hardware Support](#)
- [LAN Switches Technology Support](#)
- [Technical Support – Cisco Systems](#)

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