

# Understanding Catalyst 2900 and Catalyst 4000 Naming Conventions

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## Introduction

The purpose of this document is to clarify the naming conventions among the various Catalyst 2900 and Catalyst 4000 switches. Provided in the tables are the product names, the platform from which the product was derived, any relevant details on the product, the command line interface (CLI) used on the product, the image name, and which software configuration and troubleshooting document can be used for a particular switch platform.

Refer to the respective product link in order to learn more technical details on a particular product in these tables.

## 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 [Cisco Technical Tips Conventions](#) for more information on document conventions.

## Catalyst 2900 Platforms

2900 Platforms					
Platform Name	Derived From	Details	CLI Used	Image Used	Supported Configuration/ Troubleshooting Documents

<a href="#">Catalyst 2900</a> WS-C2901, WS-C2902	Catalyst 5000	<ul style="list-style-type: none"> <li>● 5002 chassis</li> <li>● Supervisor Engine I with 2100BaseTX uplinks</li> <li>● 12 10/100BaseTX (2901) or 12 100BaseFX multimode fiber (MMF) (2902) switch ports</li> </ul>	Catalyst OS (CatOS)	Uses cat5000-sup image	All Catalyst 5000 series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2926</a> WS-C2926T, WS-C2926F	Catalyst 5000	<ul style="list-style-type: none"> <li>● 5002 chassis</li> <li>● Supervisor Engine II with 2 100BaseTX (2926T) or 100BaseFX MMF (2926F) uplinks</li> <li>● 24 10/100BaseTX switch ports</li> </ul>	CatOS	Uses cat5000-sup image	All Catalyst 5000 series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2926G</a> WS-C2926GS, WS-C2926GL	Catalyst 5000	<ul style="list-style-type: none"> <li>● 5002 chassis</li> <li>● Supervisor Engine III/NetFlow Feature Card (NFFC) with 2 fixed 1000BaseSX (2926GS) or 1000BaseLX/LH (2926GL) uplinks</li> <li>● 24 10/100BaseTX switch ports</li> </ul>	CatOS	Uses cat5000-sup3 image	All Catalyst 5000 series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2948G</a> WS-C2948G	Catalyst 4000	<ul style="list-style-type: none"> <li>● Supervisor Engine I</li> <li>● 48 10/100BaseTX switch ports + 2 1000BaseX Gigabit Interface Converter (GBIC) switch ports</li> </ul>	CatOS	Uses cat4000 image	All Catalyst 4000 series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2980G</a> WS-C2980G	Catalyst 4000	<ul style="list-style-type: none"> <li>● Supervisor Engine I</li> <li>● 80 10/100BaseTX switch ports + 2 1000BaseX GBIC switch ports</li> </ul>	CatOS	Uses cat4000 image	All Catalyst 4000 series configuration/troubleshooting documents can be used.

<a href="#">Catalyst 2980G-A</a> WS-C2980G-A	Catalyst 4000	<ul style="list-style-type: none"> <li>Supervisor Engine I (with cost-reduced application-specific integrated circuits [ASICs])</li> <li>80 10/100BaseTX switch ports + 2 1000BaseX GBIC switch ports</li> </ul>	CatOS	Uses cat4000 image	All Catalyst 4000 series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2948G-L3</a> WS-C2948G-L3, WS-C2948GL3-DC	Catalyst 8540	<ul style="list-style-type: none"> <li>48 10/100BaseTX Ethernet processor interface (EPIF) + 2 1000BaseX GBIC Gigabit processor interface (XPIF) Layer 3 switched interfaces</li> </ul>	Cisco IOS® Software	Uses cat2948g-in-mz image	All Catalyst 2948G-L3 and 4908G-L3 series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2900 XL</a> WS-C2912-XL, WS-C2924C-XL, WS-C2924-XL, WS-C2912MF-XL, WS-C2924M-XL, WS-C2924M-XL-EM-DC	N/A	Fixed configuration switches with various media types available (Some switches support expansion modules for additional ports.)	Cisco IOS Software (Layer 2 only)	Uses c2900XL image	All Catalyst 2900 XL/3500 XL series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2900 Long-Reach Ethernet (LRE) XL</a> WS-C2912-LRE-XL, WS-C2924-LRE-XL	Catalyst 2900XL	<ul style="list-style-type: none"> <li>4 fixed autosensing 10/100 ports</li> <li>12 or 24 LRE ports</li> </ul>	Cisco IOS Software (Layer 2 only)	Uses special c2900XL images	All Catalyst 2900 XL/3500 XL series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2940</a> 2940-8TT-S, 2940-8TF-S	N/A	<ul style="list-style-type: none"> <li>8 10/100 port fixed configuration switches</li> <li>1 10/100/1000 port (TT-S) or 1 100Base-FX port and 1 small form factor pluggable (SFP) port (TF-S)</li> </ul>	Cisco IOS Software (Layer 2 only)	Uses c2940 images	Catalyst 2940 documentation, most of the Catalyst 2950 documentation, and most of the Catalyst 2900 XL/3500 XL series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2950</a> WS-C2950-12, WS-C2950-24, WS-C2950C-24, WS-C2950T-24, WS-C2950G-12-EI, WS-C2950G-24-EI, WS-C2950G-24-EI-DC, WS-C2950G-48-EI, WS-C2950SX-24, WS-C2950SX-48-SI, WS-C2950T-48-SI  <a href="#">Catalyst 2955</a>	N/A	12, 24 or 48 10/100 port fixed configuration switches with various media ports available, that depends on the model	Cisco IOS Software (Layer 2 only)	Uses c2950 or c2955 image, respectively.  Catalyst 2950 switches recognize either the Enhanced Image (EI) or the Standard Image (SI), that depends on the	Catalyst 2950 documentation and most of the Catalyst 2900 XL/3500 XL series configuration/troubleshooting documents can be used.

WS-C2955T-12, WS-C2955C-12, WS-C2955S-12				model. Catalyst 2955 switches only run the EI.	
WS-C2950ST-8 LRE, WS-C2950ST-24 LRE, WS-C2950ST-24 LRE 997 (DC)	Catalyst 2950	<ul style="list-style-type: none"> <li>● 8 or 24 LRE ports</li> <li>● 2 10/100/1000 ports and 2 SFP module slots</li> </ul>	Cisco IOS Software (Layer 2 only)	Uses c2950lre image	Catalyst 2950 configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2970</a> WS-C2970G-24T, WS-C2970G-24TS	N/A	<ul style="list-style-type: none"> <li>● 24 10/100/1000 ports (24-T)</li> <li>● 24 10/100/1000 port with 4 SFP (24-TS)</li> </ul>	Cisco IOS Software (Layer 2 only)	Uses c2970 image	Catalyst 2970 documentation, most Catalyst 2940/2950 documentation, and Catalyst 2900 XL/3500 XL series configuration/troubleshooting documents can be used.

## Catalyst 4000 Platforms

4000 Platforms					
Platform Name	Derived From	Details	CLI Used	Image Used	Supported Configuration/Troubleshooting Documents
<a href="#">Catalyst 4000</a> WS-C4003 3-slot Catalyst 4000 chassis	N/A	Supports the Supervisor Engine I (WS-X4012) only	CatOS	Uses cat4000 image, cat4000.x-y-z image, or cat4000-k8.x.y.z image (uses cat4000-cv for the CiscoView image)	Almost all CatOS (Catalyst 4k/5k/6k) configuration/troubleshooting documents can be used.
<a href="#">Catalyst 4000</a> WS-C4006 6-slot Catalyst 4000 chassis	N/A	Supports the Supervisor Engine II (WS-X4013)	<ul style="list-style-type: none"> <li>● CatOS only on the Supervisor Engine II</li> </ul>	Uses CatOS images: cat4000.x-y-z or cat4000-k8.x.y.z (uses cat4000-cv for the CiscoView image)	Almost all CatOS (Catalyst 4k/5k/6k) configuration/troubleshooting documents can be used.
		Supports the Supervisor Engine II-Plus (WS-4013+), Supervisor Engine III (WS-X4014), Supervisor Engine IV (WS-X4515), and Supervisor Engine V (WS-X4516)	<ul style="list-style-type: none"> <li>● Cisco IOS Software only on the Supervisor Engine II-Plus, III, IV, and V</li> </ul>	Uses Cisco IOS images: cat4000-is-mz or cat4000-i9s-mz (Basic L3 feature set) or cat4000-i5s (Enhanced L3 feature set), cat4500, that depends on the software release and Supervisor Engine	Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents can be used.
		Supports the Supervisor Engine II (WS-X4013)	<ul style="list-style-type: none"> <li>● CatOS only on the Supervisor Engine II</li> </ul>	Uses CatOS images: cat4000.x-y-z or cat4000-k8.x.y.z (uses cat4000-cv for the CiscoView image)	Almost all CatOS (Catalyst 4k/5k/6k) configuration/troubleshooting documents can be used.

<p><a href="#">Catalyst 4500</a></p> <p>WS-C4503, 3-slot Catalyst 4500 chassis</p>	N/A	<p>Supports the Supervisor Engine II-Plus (WS-4013+), Supervisor Engine II-Plus-10GE (WS-X4013+10GE), Supervisor Engine II-Plus-TS (WS-X4013+TS), Supervisor Engine III (WS-X4014), Supervisor Engine IV (WS-X4515), Supervisor Engine V (WS-X4516), and Supervisor Engine V-10GE (WS-X4516-10GE)</p>	<ul style="list-style-type: none"> <li>● Cisco IOS Software only on the Supervisor Engine II-Plus, II-Plus-10GE, III, IV, V, and V-10GE</li> </ul>	<p>Uses Cisco IOS images: cat4000-is-mz or cat4000-i9s-mz (Basic L3 feature set) or cat4000-i5s (Enhanced L3 feature set), cat4500, that depends on the software release and Supervisor Engine</p>	<p>Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents can be used.</p>
<p><a href="#">Catalyst 4500</a></p> <p>WS-C4506 6-slot Catalyst 4500 chassis</p>	N/A	<p>Supports the Supervisor Engine II (WS-X4013)</p>	<ul style="list-style-type: none"> <li>● CatOS only on the Supervisor Engine II</li> </ul>	<p>Uses CatOS images: cat4000.x-y-z or cat4000-k8.x.y.z (uses cat4000-cv for the CiscoView image)</p>	<p>Almost all CatOS (Catalyst 4k/5k/6k) configuration/troubleshooting documents can be used.</p>
<p><a href="#">Catalyst 4500</a></p> <p>WS-C4506 6-slot Catalyst 4500 chassis</p>	N/A	<p>Supports the Supervisor Engine II-Plus (WS-4013+), Supervisor Engine II-Plus-10GE (WS-X4013+10GE), Supervisor Engine III (WS-X4014), Supervisor Engine IV (WS-X4515), Supervisor Engine V (WS-X4516), and Supervisor Engine V-10GE (WS-X4516-10GE)</p>	<ul style="list-style-type: none"> <li>● Cisco IOS Software only on the Supervisor Engine II-Plus, II-Plus-10GE, III, IV, V, and V-10GE</li> </ul>	<p>Uses Cisco IOS images: cat4000-is-mz or cat4000-i9s-mz (Basic L3 feature set) or cat4000-i5s (Enhanced L3 feature set), cat4500, that depends on the software release and Supervisor Engine</p>	<p>Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents can be used.</p>
<p><a href="#">Catalyst 4500</a></p> <p>WS-4507R 7-slot Catalyst 4500 chassis</p>	N/A	<p>Supports the Supervisor Engine II-Plus (WS-4013+), Supervisor Engine II-Plus-10GE (WS-X4013+10GE), Supervisor Engine IV (WS-X4515), Supervisor Engine V (WS-X4516), and Supervisor Engine V-10GE (WS-X4516-10GE) with Supervisor Engine redundancy</p>	<ul style="list-style-type: none"> <li>● Cisco IOS Software only on the Supervisor Engine II-Plus, II-Plus-10GE, IV, V, and V-10GE</li> </ul>	<p>Uses Cisco IOS images: cat4000-is-mz, cat4000-i9s-mz (Basic L3 feature set) or cat4000-i5s (Enhanced L3 feature set), cat4500, that depends on the software release and Supervisor Engine</p>	<p>Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents can be used.</p>
<p><a href="#">Catalyst 4500</a></p> <p>WS-4510R 10-slot Catalyst 4500 chassis</p>	N/A	<p>Supports the Supervisor Engine V (WS-X4516), and Supervisor Engine V-10GE (WS-X4516-10GE) with Supervisor Engine redundancy</p>	<ul style="list-style-type: none"> <li>● Cisco IOS Software only on the Supervisor Engine V, and V-10GE</li> </ul>	<p>Uses Cisco IOS images: cat4000-is-mz, cat4000-i9s-mz (Basic L3 feature set) or cat4000-i5s (Enhanced L3 feature set), cat4500, that depends on the software release and Supervisor Engine</p>	<p>Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents can be used.</p>

<a href="#">Catalyst 4912G</a> WS-C4912G	Catalyst 4000	Supervisor Engine I + 12 1000BaseX GBIC switch ports	CatOS	Uses cat4000 image	Almost all CatOS (Catalyst 4k/5k/6k) configuration/troubleshooting documents can be used.
<a href="#">Catalyst 4908G-L3</a> WS-C4908G-L3	Catalyst 8540	<ul style="list-style-type: none"> <li>8 1000BaseX GBIC (XPIF) Layer 3 switched interfaces</li> </ul>	Cisco IOS Software	Uses cat2948g-in-mz image	All Catalyst 2948G-L3 and 4908G-L3 series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 4840G</a> WS-C4840G	Catalyst 2948G-L3 + 6k Multilayer Switch Feature Card (MSFC)	<ul style="list-style-type: none"> <li>40 10/100BaseTX + 2 1000BaseX GBIC Layer 3 switched interfaces for server load-balancing (SLB)</li> </ul>	Cisco IOS Software	Uses cat4840g-i-mz image	All Catalyst 2948G-L3 and 4908G-L3 series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 4900</a> WS-C4948, WS-C4948-10GE	Catalyst 4500	<ul style="list-style-type: none"> <li>48 10/100/1000BASE-T with 4 alternative 1000BASE-X SFP optics</li> <li>48 10/100/1000BASE-T with 2 10 Gigabit Ethernet (X2 optics).</li> </ul>	Cisco IOS Software	Uses cat4500 image	Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents can be used.
<a href="#">Catalyst 4000 Layer 3 Services Module</a> WS-X4232-L3	Catalyst 8540	<ul style="list-style-type: none"> <li>Switch fabric is same as Catalyst 2948G-L3/4908G-L3</li> <li>2 internal 1000BaseSX Gigabit Ethernet (XPIF) Layer 3 switched interfaces connected to 2 internal 1000BaseSX Layer 2 switch ports</li> <li>2 external 1000BaseX GBIC (XPIF) Layer 3 switched interfaces</li> <li>32 10/100BaseTX switch ports</li> </ul>	<ul style="list-style-type: none"> <li>Cisco IOS Software (4 Gigabit interfaces)</li> <li>CatOS (2 internal 1000BaseX ports + 32 10/100 ports)</li> </ul>	<ul style="list-style-type: none"> <li>Uses cat4232-in-mz image</li> <li>Uses cat4000 image</li> </ul>	The configuration is the same as all other Layer 3 modules and the troubleshooting is the same as the Catalyst 2948G-L3 switch.



**Caution:** The Catalyst 4500 Series Supervisor Engines I and II can run only Catalyst OS Software and cannot be converted to run with Cisco IOS Software.



**Caution:** The Catalyst 4500 Series Supervisor Engines II+, II+10GE, II+TS, III, IV, V, and V-10GE can run with only Cisco IOS Software and cannot be converted to run with Catalyst OS Software.

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