

# 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> <ul style="list-style-type: none"> <li>• WS - C2901</li> <li>• WS - C2902</li> </ul>	Catalyst 5000	<ul style="list-style-type: none"> <li>• 5002 chassis</li> <li>• Supervisor Engine I with 2100BaseTX uplinks</li> <li>• 1210/100BaseTX (2901) or 12100BaseFX multigigabit fiber (MMF) (2902) switch</li> </ul>	Catalyst OS (CatOS)	Uses cat5000-sup image	All Catalyst 5000 series configuration/troubleshooting documents can be used.

		ch port s			
<a href="#">Catalyst 2926</a> <ul style="list-style-type: none"> <li>• WS - C29 26T</li> <li>• WS - C29 26F</li> </ul>	Catalyst 5000	<ul style="list-style-type: none"> <li>• 500 2 chassis</li> <li>• Supervisor Engine II with 2 100 BaseTX (29 26T ) or 100 BaseFX MM F (29 26F ) uplinks</li> <li>• 24 10/ 100 BaseTX switch ports</li> </ul>	CatOS	Uses cat5000 -sup image	All Catalyst 5000 series configuration/troubleshooting documents can be used.
<a href="#">Catalyst 2926G</a> <ul style="list-style-type: none"> <li>• WS - C29 26G S</li> </ul>	Catalyst 5000	<ul style="list-style-type: none"> <li>• 500 2 chassis</li> <li>• Supervisor</li> </ul>	CatOS	Uses cat5000 -sup3 image	All Catalyst 5000 series configuration/troubleshooting

<ul style="list-style-type: none"> <li>• WS - C29 26G L</li> </ul>		<p>Engine III/NetFlow Feature Card (NFC) with 2 fixed 100BaseSX (2926GS) or 100BaseLX/LH (2926GL) uplinks</p> <ul style="list-style-type: none"> <li>• 24 10/100BaseTX switch ports</li> </ul>			<p>documents can be used.</p>
<p><a href="#">Catalyst 2948G</a></p> <ul style="list-style-type: none"> <li>• WS - C29</li> </ul>	<p>Catalyst 4000</p>	<ul style="list-style-type: none"> <li>• Supervisor Engine I</li> </ul>	<p>CatOS</p>	<p>Uses cat4000 image</p>	<p>All Catalyst 4000 series configuration/tro</p>

<p>48G</p>		<ul style="list-style-type: none"> <li>• 48 10/100 BaseTX switch ports + 2 1000BaseX Gigabit Interface Converter (GBIC) switch ports</li> </ul>			<p>troubleshooting documents can be used.</p>
<p><a href="#">Catalyst 2980G</a></p> <ul style="list-style-type: none"> <li>• WS-C2980G</li> </ul>	<p>Catalyst 4000</p>	<ul style="list-style-type: none"> <li>• Supervisor Engine I</li> <li>• 80 10/100 BaseTX switch ports + 2 1000BaseX GBIC</li> </ul>	<p>CatOS</p>	<p>Uses cat4000 image</p>	<p>All Catalyst 4000 series configuration/troubleshooting documents can be used.</p>

		switch ports			
<a href="#">Catalyst 2980G-A</a> <ul style="list-style-type: none"> <li>WS - C2980G-A</li> </ul>	Catalyst 4000	<ul style="list-style-type: none"> <li>Supervisor Engine I (with cost-reduced application-specific integrated circuits [ASICs])</li> <li>80/100 BaseTX switch ports + 2 100BaseXGBIC switch ports</li> </ul>	CatOS	Uses cat4000 image	All Catalyst 4000 series configuration/troubleshooting documents can be used.

<p><a href="#">Catalyst 2948G-L3</a></p> <ul style="list-style-type: none"> <li>• WS - C2948G-L3</li> <li>• WS - C2948G-L3-DC</li> </ul>	<p>Catalyst 8540</p>	<ul style="list-style-type: none"> <li>• 48 10/100 BaseT Ethernet processor interface (EPIC) + 2 100BaseX Gigabit processor interface (XPIC) Layer 3 switched interfaces</li> </ul>	<p>Cisco IOS® Software</p>	<p>Uses cat2948g-in-mz image</p>	<p>All Catalyst 2948G-L3 and 4908G-L3 series configuration/troubleshooting documents can be used.</p>
<p><a href="#">Catalyst 2900 XL</a></p> <ul style="list-style-type: none"> <li>• WS - C2912-XL</li> <li>• WS</li> </ul>	<p>N/A</p>	<p>Fixed configuration switches with various media types</p>	<p>Cisco IOS Software (Layer 2 only)</p>	<p>Uses c2900XL image</p>	<p>All Catalyst 2900 XL/3500 XL series configuration/troubleshooting documents can be used.</p>

<ul style="list-style-type: none"> <li>- C29 24C -XL</li> <li>• WS - C29 24-XL</li> <li>• WS - C29 12 MF-XL</li> <li>• WS - C29 24 M-XL</li> <li>• WS - C29 24 M-XL-EM-DC</li> </ul>		<p>available (Some switches support expansion modules for additional ports.)</p>			<p>troubleshooting documents can be used.</p>
<p><a href="#">Catalyst 2900 Long-Reach Ethernet (LRE) XL</a></p> <ul style="list-style-type: none"> <li>• WS - C29 12-LR E-XL</li> <li>• WS - C29 24-LR</li> </ul>	<p>Catalyst 2900XL</p>	<ul style="list-style-type: none"> <li>• 4 fixed autosensing 10/100 ports</li> <li>• 12 or 24 LRE ports</li> </ul>	<p>Cisco IOS Software (Layer 2 only)</p>	<p>Uses special c2900XL images</p>	<p>All Catalyst 2900 XL/3500 XL series configuration/troubleshooting documents can be used.</p>



E-XL					
<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 100 Base-FX port and 1 small form factor plugable (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>	N/A	12, 24 or 48	Cisco IOS	Uses c2950	Catalyst 2950

<ul style="list-style-type: none"> <li>• WS</li> <li>-</li> <li>C29</li> <li>50-</li> <li>12</li> <li>• WS</li> <li>-</li> <li>C29</li> <li>50-</li> <li>24</li> <li>• WS</li> <li>-</li> <li>C29</li> <li>50C</li> <li>-24</li> <li>• WS</li> <li>-</li> <li>C29</li> <li>50T</li> <li>-24</li> <li>• WS</li> <li>-</li> <li>C29</li> <li>50G</li> <li>-12-</li> <li>EI</li> <li>• WS</li> <li>-</li> <li>C29</li> <li>50G</li> <li>-24-</li> <li>EI</li> <li>• WS</li> <li>-</li> <li>C29</li> <li>50G</li> <li>-24-</li> <li>EI-</li> <li>DC</li> <li>• WS</li> <li>-</li> <li>C29</li> <li>50G</li> <li>-48-</li> <li>EI</li> <li>• WS</li> <li>-</li> </ul>		<p>10/100 port fixed configuration switches with various media ports available, that depends on the model</p>	<p>Software (Layer 2 only)</p>	<p>or c2955 image, respectively. Catalyst 2950 switches recognize either the Enhanced Image (EI) or the Standard Image (SI), that depends on the model. Catalyst 2955 switches only run the EI.</p>	<p>documentation and most of the Catalyst 2900 XL/3500 XL series configuration/troubleshooting documents can be used.</p>
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<p>C29 50S X- 24 • WS - C29 50S X- 48- SI • WS - C29 50T -48- SI <a href="#">Catalyst 2955</a> • WS - C29 55T -12 • WS - C29 55C -12 • WS - C29 55S -12</p>					
<p><a href="#">Catalyst 2950</a> • WS - C29 50S T-8 LR E • WS - C29 50S</p>	<p>Catalyst 2950</p>	<p>• 8 or 24 LR E port s • 2 10/ 100 /10 00 port s</p>	<p>Cisco IOS Softwar e (Layer 2 only)</p>	<p>Uses c2950lr e image</p>	<p>Catalyst 2950 configur ation/tro ublesho oting docume nts can be used.</p>

T-24 LRE • WS - C29 50S T-24 LRE 997 (DC)		and 2 SFP module slots			
<a href="#">Catalyst 2970</a> • WS - C29 70G - 24T • WS - C29 70G - 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

<p><a href="#">Catalyst 4000</a></p> <ul style="list-style-type: none"> <li>WS-C4003-3-slot Catalyst 4000 chassis</li> </ul>	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.
<p><a href="#">Catalyst 4000</a></p> <ul style="list-style-type: none"> <li>WS-C4006-6-slot Catalyst 4000 chassis</li> </ul>	N/A	Supports the Supervisor Engine II (WS-X4013)	<ul style="list-style-type: none"> <li>CatOS only on the Supervisor or 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+),	<ul style="list-style-type: none"> <li>Cisco IOS</li> </ul>	Uses Cisco IOS images : cat4000-is-mz	Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents

		Supervis or Engine III (WS- X4014), Supervis or Engine IV (WS- X4515), and Supervis or Engine V (WS- X4516)	S S of t w ar e o n l y o n t h e S u p e r v i s o r E n g i n e I I- P l u s, I I I , I V , a n d V	or cat400 0-i9s- mz (Basic L3 feature set) or cat400 0-i5s (Enhan ced L3 feature set), cat450 0, that depend s on the softwar e release and Supervi sor Engine	can be used.
<a href="#">Catalyst 4500</a> • WS - C4 503 , 3- slot Cat	N/A	Supports the Supervis or Engine II (WS- X4013)	• C at O S o n l y o n	Uses CatOS images : cat400 0.x-y-z or cat400 0-	Almost all CatOS (Catalyst 4k/5k/6k) configuration/t roubleshooting documents can be used.

<p>alys t 450 0 cha ssis</p>			<p>th e S u p er vi s or E n gi n e II</p>	<p>k8.x.y.z (uses cat400 0-cv for the CiscoVi ew image)</p>	
	<p>Supports the Supervis or Engine II-Plus (WS- 4013+), Supervis or Engine II-Plus- 10GE (WS- X4013+1 0GE), Supervis or Engine II-Plus- TS (WS- X4013+T S), Supervis or Engine III (WS- X4014), Supervis or Engine IV (WS- X4515), Supervis or Engine V (WS- X4516), and Supervis or Engine V-10GE</p>	<p>• C is c o l O S S of t w ar e o nl y o n th e S u p er vi s or E n gi n e II-</p>	<p>Uses Cisco IOS images : cat400 0-is-mz or cat400 0-i9s- mz (Basic L3 feature set) or cat400 0-i5s (Enhan ced L3 feature set), cat450 0, that depend s on the softwar e release and Supervi sor Engine</p>	<p>Almost all Cisco IOS (Catalyst 4k/6k) configuration/t roubleshooting documents can be used.</p>	

		(WS-X4516-10GE)	PI u s, II- Pl u s- 1 0 G E , II- Pl u s- T S , III , I V , V , a n d V - 1 0 G E		
<a href="#">Catalyst 4500</a> <ul style="list-style-type: none"> <li>WS-C4506-6-slot Catalyst 4500</li> </ul>	N/A	Supports the Supervisor Engine II (WS-X4013)	<ul style="list-style-type: none"> <li>CatOS only on these</li> </ul>	<ul style="list-style-type: none"> <li>Uses CatOS images : cat4000.x-y-z or cat4000-k8.x.y.z (uses cat4000-cv for the</li> </ul>	<ul style="list-style-type: none"> <li>Almost all CatOS (Catalyst 4k/5k/6k) configuration/troubleshooting documents can be used.</li> </ul>



chassis			p er vi s or E n gi n e II	CiscoView (image)	
		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)	• Cisco IOS Supervisor Engine only on the Supervisor or Engine II-Plus, II-	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.

			PI u s- 1 0 G E , III , I V , V , a n d V - 1 0 G E		
<a href="#">Catalyst 4500</a> <ul style="list-style-type: none"> <li>WS-4507R-7-slot Catalyst 4500 chassis</li> </ul>	N/A	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	<ul style="list-style-type: none"> <li>Cisco IOS Images of the following series only on the Super</li> </ul>	<ul style="list-style-type: none"> <li>Uses Cisco IOS images:</li> <li>cat4000-is-mz, cat4000-i9s-mz (Basic L3 feature set) or cat4000-i5s (Enhanced L3 feature set), cat4500, that depends on the</li> </ul>	<p>Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents can be used.</p>

		(WS-X4516-10GE) with Supervisor Engine redundancy	vi s or E n g i n e II- Pl u s, II- Pl u s- 1 0 G E , I V , V , a n d V - 1 0 G E	software release and Supervisor Engine	
<a href="#">Catalyst 4500</a> <ul style="list-style-type: none"> <li>WS-4510R slot Catalyst 4500</li> </ul>	N/A	Supports the Supervisor Engine V (WS-X4516), and Supervisor Engine V-10GE (WS-X4516-10GE) with	<ul style="list-style-type: none"> <li>Cisco IOS Software</li> </ul>	Uses Cisco IOS images : cat4000-is-mz, cat4000-i9s-mz (Basic L3 feature	Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents can be used.

chassis		Supervisor Engine redundancy	only on the Supervisor Engine and V-10GE	set) or cat4000-i5s (Enhanced L3 feature set), cat4500, that depends on the software release and Supervisor Engine	
<a href="#">Catalyst 4912G</a> <ul style="list-style-type: none"> <li>WS-C4912G</li> </ul>	Catalyst 4000	Supervisor Engine + 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> <ul style="list-style-type: none"> <li>WS-C4908G-L3</li> </ul>	Catalyst 8540	<ul style="list-style-type: none"> <li>8 1000 BaseX GBIC (XPI F) Layer 3 switc</li> </ul>	Cisco IOS Software	Uses cat2948g-in-mz image	All Catalyst 2948G-L3 and 4908G-L3 series configuration/troubleshooting documents can be used.

		hed interf aces			
<a href="#">Catalyst 4840G</a> <ul style="list-style-type: none"> <li>WS - C4840G</li> </ul>	Catalyst 2948G-L3 + 6k Multilayer Switch Feature Card (MSFC)	<ul style="list-style-type: none"> <li>40 10/100BaseT Ethernet + 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> <ul style="list-style-type: none"> <li>WS - C4948</li> <li>WS - C4948-10GE</li> </ul>	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</li> </ul>	Cisco IOS Software	Uses cat4500 image	Almost all Cisco IOS (Catalyst 4k/6k) configuration/troubleshooting documents can be used.

		2 10 Giga bit Ethernet (X2 optics).			
<a href="#">Catalyst 4000 Layer 3 Services Module</a> <ul style="list-style-type: none"> <li>• WS-X4232-L3</li> </ul>	Catalyst 8540	<ul style="list-style-type: none"> <li>• Switch fabric is same as Catalyst 2948G-L3/4908G-L3</li> <li>• 2 internal 1000 Base SX Giga bit Ethernet (XPI F) Layer 3 switched interfaces connected to 2 internal 1000 Base SX</li> </ul>	<ul style="list-style-type: none"> <li>• Cisco IOS Software (4Gigabit interface scale)</li> <li>• Catalyst OS (2 internal 1000</li> </ul>	<ul style="list-style-type: none"> <li>• Uses cat4232-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.

		Layer 2 switch ports • 2 external 1000 Base X GBIC (XPI F) Layer 3 switched interfaces • 32 10/100BaseTX switch ports	Base X ports + 32 10/100 ports )		
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**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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