

# VEO-XTI1C / VEO-XRI1C VEO-XTI2L / VEO-XRI2L

How to configure a Cisco SG300 Ethernet Switch for Ecler VEO over IP products



# QUICK START GUIDE



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#### **1.** Establishing communication with the Cisco Ethernet Switch

- Connect your computer to the Cisco Ethernet Switch using an Ethernet cable. The Cisco SG300 Ethernet Switch comes with a default Static IP address of **192.168.1.254**; you must configure your PC with a Static IP address in the same subnet.
- 2. Set a Static IP address on your computer network interface card, such as 192.168.1.66 along with the following mask 255.255.255.0.
- Open your Internet browser and digit the default IP address of the switch: <u>http://192.168.1.254</u>. The Default User ID and Password for the unit is "Cisco".

#### 2. Enabling IGMP Protocol

The IGMP Protocol is mandatory for the correct operation of the VEO over IP products in multicast configurations. Without IGMP the audio/video can't work properly or may freeze.

1. Select **Multicast** → **Properties**. Enable the **Bridge Multicast Filtering Status** by activating the related selection box and clicking on **Apply**.





2. Select Multicast  $\rightarrow$  IGMP Snooping. Enable the IGMP Snooping Status by activating the related selection box and clicking on Apply.

Small Business SG300-10P 10-Port	Gig	gabit Po	E Man	aged Switch				<sup>ge:</sup> English	Logout	About Help
Getting Started IGMP Snooping										
Administration     Port Management	IGMP Snooping Status: 🔽 Enable									
Smartport      VI AN Management		Apply	Cancel	]						_
Spanning Tree	IG	MP Snooping	Table							
<ul> <li>MAC Address Tables</li> </ul>		Entry No.	VLAN ID	IGMP Snooping	Router	MRouter Ports	Query	Query	Query Max Response	Last Memb
Multicast				Operational Status	IGMP Version	Auto Learn	Robustness	Interval (sec)	Interval (sec)	Query Count
IGMP Snooping MLD Snooping IGMPMLD IP Multicast Group Multicast Router Port Forward All Unregistered Multicast										
IP Configuration     Security										
Access Control										
Quality of Service										
SNMP	4									Ŀ
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3. In the IGMP Snooping Table, select the default VLAN ID 1 and click on Edit.

Getting Started     IGMP Snooping       > Administration     IGMP Snooping Status: F Enable       > Port Management     IGMP Snooping Status: Cancel       > Smartport     Apply       > VLAN Management     IGMP Snooping Table       > MadC Address Tables     IGMP Snooping Table       > MadC Address Tables     Entry No.       Y Multicast Group Address     I Enabled       IP Multicast Group Address     Copy Settings									
> Administration     IGMP Snooping Status: IF Enable       > Port Management     IGMP Snooping Status: IF Enable       > Smartport     Apply       > VLAN Management     IGMP Snooping Table       > MAC Address Tables     IGMP Snooping Table       > MAC Address Tables     Entry No.       Y Multicast Group Address     I Enabled       Y Multicast Group Address     I Enabled       Y Multicast Group Address     Edit	Getting Started IGMP Snooping								
Port Management     Smartport     VLAN Management     Spanning Tree     MAC Address Tables     MAC Group Address     IP Multicast Group Address     IP	IGMP Snooping Status: 🔽 Enable								
VLAN Management     Spanning Tree     MAC Address Tables     MAC Address Tables     MAC Address Tables     Mathicast     Multicast Group Address     IP Address     IP Address     IP									
MAC Address Tables     Multicast     Multicast     Properties     MAC Group Address     IP Multicast Group Address     IP Address     IP Address     IP Address     IP Address     IP									
Operation         Operation         Status         Num version         Auto Learn           Properties         0         1         Enabled         X3         Enabled           MAC Group Address         IP Multicast Group Address         Copy Settings         Edit         Edit	Query Robustness	Query Query Max Response	Last Memb						
ICMP Speeping	2	125 10	Count						
MLD Snooping IGMP/MLD IP Multicast Group Multicast Router Port Forward All Unregistered Multicast									
IP Configuration     Security									
Access Control									
Quality of Service									
SNMP									



4. In the resulting window, activate the related selection box for **IGMP Snooping Status** and verify that the **Immediate Leave** selection box is enabled and then click on **Apply**.

VLANID:			
IGMP Snooping Status:	Enable		Operational IGMP Snooping Status:
MRouter Ports Auto Learn:	🔽 Enable		
Query Robustness:	2	(Range: 1 - 7, Default: 2)	Operational Query Robustness:
🛿 Query Interval:	125	sec (Range: 30 - 18000, Default 125)	Operational Query Interval:
🖁 Query Max Response Interval:	10	sec (Range: 5 - 20, Default: 10)	Operational Query Max Response Interval:
Last Member Query Counter:	<ul> <li>Use Default</li> <li>User Defined</li> </ul>	(Range: 1 - 7, Default: 2 (Query Robustness))	Operational Last Member Query Counter:
Last Member Query Interval:	1000	mS (Range: 100 - 25500, Default: 1000)	Operational Last Member Query Interval:
Immediate leave:	🔽 Enable		
IGMP Querier Status:	🗖 Enable		
Administrative Querier Source IP Address:	C Auto		Operational Querier Source IP Address:
	C User Defined 1	58,158,1.1 <u>×</u>	
IGMP querier version:	IGMPV2		

 Select Administration → File Management → Copy/Save Configuration. Enable Running Configuration and Startup Configuration as shown below and save all changes by clicking Apply.



 Select Administration → File Management → Reboot, and click on the Reboot button to reboot the Ethernet switch and make all the changes running.

Small Business cisco SG300-10P 10-Po	cisco Language: English Logout About Help
Getting Started         • Status and Statistics         • Administration         System Settings         Console Settings         • Management Interface         User Accounts         Idle Session Timeout         • Time Settings         • System Log         • File Management         Upgrade/Backup Firmware/Language         Active Image         Download/Backup Configuration/Log         Configuration Files Properties         Copy/Save Configuration         DHCP Auto Configuration         PHCP Auto Configuration         DHCP Auto Configuration         PLOP Auto Configuration         VLAN Management         Spanning Tree <td< td=""><td>Reboot  Success  To reboot @ Immediate  Date Jan Y OT Time OV OV HHAMM  In OV Days OV Hours OV Minutes  Restore to Factory Defaults Clear Startup Configuration File  Reboot Cancel Reboot Cancel</td></td<>	Reboot  Success  To reboot @ Immediate  Date Jan Y OT Time OV OV HHAMM  In OV Days OV Hours OV Minutes  Restore to Factory Defaults Clear Startup Configuration File  Reboot Cancel Reboot Cancel
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### 3. Enabling Jumbo Frame

1. Select **Port Management**  $\rightarrow$  **Port Settings**. Enable **Jumbo Frames** by activating the related selection box and click on **Apply**.

Getting Started  F Status and Statistics	Por	Setting	s										
Administration     Port Management     Port Settings     Error Recovery Settings	Jumbo Frames: 🗹 Enable Jumbo frames configuration changes will take effect after saving the configuration and rebooting the switch.												
Loopback Detection Settings	-	viqq	Cance										
<ul> <li>UDLD</li> </ul>	Рог	Setting Tal	ble										
▶ PoE		Entry No.	Port	Description	Port Type	Operational Status	Link Status	Time R	ange	Port	Duplex	LAG	F
<ul> <li>Green Ethernet</li> </ul>							SNMP Traps	Name	State	Speed	Mode		
<ul> <li>Smartport</li> </ul>	0	1	GE1		1000M-Copper	Down	Enabled						U
<ul> <li>VLAN Management</li> </ul>	0	2	GE2		1000M-Copper	Up	Enabled			1000M	Full		U
<ul> <li>Spanning Tree</li> </ul>	0	3	GE3		1000M-Copper	Down	Enabled						U
<ul> <li>MAC Address Tables</li> </ul>	0	4	GE4		1000M-Copper	Up	Enabled			100M	Full		U
Multicast	0	5	GE5		1000M-Copper	Up	Enabled			100M	Full		υ
IP Configuration	0	6	GE6		1000M-Copper	Up	Enabled			100M	Full		υ
<ul> <li>Security</li> </ul>	õ	7	GE7		1000M-Copper	Down	Enabled						U
Access Control	õ	8	GE8		1000M-Copper	Down	Enabled						U
Quality of Service	0	q	GE9		1000M-ComboC	Down	Enabled						u
▶ SNMP	0	10	GE10		1000M-ComboC	Down	Enabled						U
		ComuRet	linan	Date:		Domi	Enabled						-
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### 4. Configuring the DHCP Server

The DHCP Server will automatically configure the IP addresses of each device connected to the switch. All the devices need to be set as DHCP client in their own Network Configuration page. This allows avoiding any conflict between devices.

**Note:** Please check VEO user manual for IP configurations of each product, accordingly to your installation needs.



1. To change the Ethernet Switch Static IP address to the same subnet as the AV over IP Devices, select Administration → Management Interface → IPv4 Interface. Set IP Address Type to Static, and enter the IP Address (accordingly to your network requirements), and set the Network Mask to 255.255.255.0. In this case we e default IP address. After applying these settings you need to change the IP address on your computer network interface card to the same subnet just set above.

cisco SG300-28PP 28-Port Gigal	bit PoE+ Managed Switch		cisco Language: English	▼ Logout About Help
Getting Started IPv4 Interface				-
Administration     Management VLAN:	1 -			
System Settings				
Console Settings IP Address Type:	<ul> <li>Dynamic</li> <li>Static</li> </ul>			
<ul> <li>Management Interface</li> </ul>	© otale			
IPv4 Interface   IPv6 Oktobel Oppferenties	192.168.1.254			
IPv6 Global Conliguration A Mask:	Network Mask 255 255 255 0			
IPv6 Addresses	Profix Longth	(Papao: 9 - 20)		
IPv6 Default Router List	O Preix Lengin	(rvange, o - 50)		
IPv6 Tunnel				
IPv6 Neighbors Loopback Interface:	Enable			
IPv6 Prefix List St Loopback IP Address				
IPv6 Routes				
User Accounts & Loopback Mask:	Network Mask			
Idle Session Timeout	O Prefix Length	(Range: 8 - 32)		
Sustam Log				<u></u>
File Management     Administrative Defau	t Gataway: O Unit Differed			
Reboot	Nene			
▶ Diagnostics	<ul> <li>None</li> </ul>			
Discovery - Bonjour Operational Default C	lateway:			
Discovery - LLDP     Renew IP Address N	bw: 🛄 Enable			
Discovery - CDP Auto Configuration vi	a DHCP: Enabled			
Pina				<b>_</b>
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 Select IP Configuration → DHCP Server → Network Pools and click on the Add... button

cisco SG300-28F	ciaco Language: English  Cogout About Help PP 28-Port Gigabit PoE+ Managed Switch
GVRP Settings ► VLAN Groups	Network Pools
Voice VLAN     Access Port Multicast TV V     Customer Port Multicast TV	Network Pool Table           Pool Name         Network Mask         Address Pool Start         Address Pool End         Lease Duration         Number of Leased Addresses
Spanning Tree     MAC Address Tables	Add Edit Delete Details
IP Configuration     IPv4 Management and Inte	DHCP Server Options
ARP  DHCP Snooping/Relay  DHCP Source	
Properties Network Pools	
Excluded Addresses Static Hosts DHCP Options	
Address Binding   Domain Name System   Security	
Access Control     Quality of Service	
SNMP     SNMP	NI Rinhis Reserved



3. Set the **Pool Name**, the **Network Mask** (255.255.255.0), the **Address Pool Start** (192.168.1.10), and the **Address Pool End** (192.168.1.100). Verify that you allocate enough IP addresses for all Transmitters and Receivers present on the network.

Pool Name:	VEO Addresses ¥	
Subnet IP Address:		
Mask:	Network Mask 255.25     Prefix Length	(Range: 8 - 30)
Address Pool Start:	192.168.1.10	
Address Pool End:	192.168.1.100	]
Lease Duration:	Infinite     Days     Hours	00 v Minutes 00 v (Default: 1 Day)
Default Router IP Ac	tdress (Option 3):	Auto     Disable     User Defined
Domain Name Serve	er IP Address (Option 6):	None 🔻
Domain Name (Opti	on 15):	(0/32 characters used)
NetBIOS WINS Serv	ver IP Address (Option 44):	
NetBIOS Node Type	(Option 46):	<ul> <li>Hybrid</li> <li>Mixed</li> <li>Peer-to-Peer</li> <li>Broadcast</li> </ul>
SNTP Server IP Add	tress (Option 4):	None <b>v</b>
File Server IP Addre	ss (siaddr):	
File Server Host Nar	me (sname/Option 66):	(0/64 characters used)
Configuration File Na	ame (file/Option 67):	(0/128 characters used)
Apply Clos	e	

#### Click on the **Apply** button.

cisco SG300-28P	P 28-Port Gigabit PoE+ Managed Switch
Error Recovery Settings	Network Pools
► UDLD	Network Pool Table
▶ PoE	Pool Name     Network Mask     Address Pool Start     Address Pool End     Lease Duration     Number of Leased Addresses
<ul> <li>Green Ethernet</li> </ul>	VEO Addresses 255.255.255.0 192.168.1.10 192.168.1.100 Infinite 0
<ul> <li>Smartport</li> <li>VLAN Management</li> </ul>	Add Edit Delete Details
Default VLAN Settings VLAN Settings Interface Settings Port to VLAN Port VLAN Membership Private VLAN Settings GVRP Settings	DHCP Server Options
Voice VLAN Voice VLAN Access Port Multicast TV V Customer Port Multicast TV	
<ul> <li>Spanning Tree</li> </ul>	
MAC Address Tables  Multicast  IP Configuration	
Prv4 management and inte     APP     Solution     So	Rights Reserved.



4. Select IP Configuration  $\rightarrow$  IPv4 Management and Interfaces  $\rightarrow$  DHCP Server  $\rightarrow$  Properties.

Enable the **DHCP Server Status** by activating the related selection box and clicking on **Apply**.

Small Business	cisco Language: English 🗸 Logout About Hel
cisco SG300-10P 10-Port	Gigabit PoE Managed Switch
Getting Started  Status and Statistics	Properties
Administration	DHCP Server Status: 🔽 Enable
Port Management     Smartport	Apply Cancel
VLAN Management	
Spanning Tree	
Multicast	
<ul> <li>IP Configuration</li> </ul>	
Security     Access Control	
Quality of Service	
▶ SNMP	
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 Select Administration → File Management → Copy/Save Configuration. Enable Running Configuration and Startup Configuration as shown below and save all changes by clicking Apply.

Small Business cisco SG300-10P 10-Port	Gigabit PoE Managed Switch
Cisco SG300-10P 10-Port	Cigabit POE Managed Switch  Copy/Save Configuration  At configurations that the switch is currently using are in the running configuration file which is volatile and is not retained between reboots.  To retain the configuration between reboots, make sure you copy the running configuration file to the startup configuration file after you have completed all your changes.  Source File Name:  C Running configuration C Backup configurati
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 Select Administration → File Management → Reboot, and click on the Reboot button to reboot the Ethernet switch and make all the changes running.

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Getting Statusd       Status and Statistics         Administration       Success.         Oraside Settings       Success.         User Accounts       User Accounts         User Accounts       Console Settings         • Time Settings       To reboot the device, click the Reboot button.         • Bartagement Interface       Contor Days 0000 Hearts         • Upgrade/Bactup Firmware/Language       Contor Days 0000 Hearts         • Reboot       Cancel To To reboot the device, click the Reboot button.         • Decorery - Songor       Nanagement         • Discovery - Donjour       Heanagement         • Discovery - Corp       Priog         • Tarceroufe       • Acdress Tables         • Multicast       Multicast         • Poperties MAC Group Address       • and         • Multicast       • poperties MAC Group Address	CISCO SG300-10P 10-Port (	Sigabit PoE Managed Switch		3			
Getting Started       Reboot         Status and Statistics       System Settings         Console Settings       Console Settings         Variantification       To reboot the device, click the Reboot button.         User Accounts       User Accounts         User Accounts       Immediate         > System Log       The Bettings         > System Log       Immediate         Console Sections       Console Sections         UbgradeBackup FinmwareLanguage       Active Image         Active Image       Consplication Files Properties         Consplication Files Properties       Cancel Reboot         Point Restroation       File Restore De Factory Defaults         Pring       Traceroute       Cancel Reboot         P Not Management       Spanning Tree         > Muthcast       Properties         Muthcast Group Address       Muthcast Group Address		olgabit i de Managea ownen					
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Port Management       > Smartport       > VLAN Management       > Spanning Tree       > MAC Address Tables       • Multicast       Properties       MAC Group Address       IP Multicast Group Address	Ping						
For Management     Smartport     VLAN Management     Spanning Tree     MAC Address Tables     MAC Address Tables     Multicast     Properties     MAC Group Address     IP Multicast Group Address     V	Traceroute						
Smarport     VLAN Management     Spanning Tree     MAC Address Tables     Multicast     Properties     MAC Group Address     IP Multicast Group Address	Pon Management						
VLAN Management     Spanning Tree     MAC Address Tables     Multicast     Properties     MAC Group Address     IP Multicast Group Address	▶ Smanpon						
MAC Address Tables     Multicast     Properties     MAC Group Address     IP Multicast Group Address	VLAN Management						
Multicast Properties MAC Group Address IP Multicast Group Address	Spanning free						
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IP Multicast Group Address	Properties MAC Crown Address						
	IP Multicast Group Address						
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All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

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