

Open-Vision 4.0

Management Utility

User's Manual

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ORing ORing Industrial Networking Corp.

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Table of Content

GET	GETTING TO KNOW YOUR SWITCH					
	1.1	Abo	ut the Open-Vision 4.0	3		
	1.2	Sys	tem requirements	3		
	1.3	Inst	all Open-Vision	4		
	1.4	Con	figuring PC network interface card	10		
CON	IMAN	DER		.11		
	1.1	Disc	covery	11		
	1.2		cover Filter			
	1.3	Tas	k tab	14		
	1.4	Sett	ings	16		
	1.5	Help	D	17		
	1.6	Icor	ns Introduction	18		
	1.7	Dev	ices list	19		
	1.8	LED) and port status	19		
	1.9		us Monitor			
	1.10	Sca	n Devices Configuration	21		
	1.11	Sys	log Events	22		
	1.12		ards			
	1.13	Gro	up IP Setting Wizard	23		
		1.13.1	Group Firmware Update Wizard			
		1.13.2	Group Configuration Backup	27		
		1.13.3	Group Configuration Restore	28		
		1.13.4	Group O-Ring Setting	29		
тор	OLOG	SY VIEV	V	30		
	2.1	Abo	ut the Topology View	30		
	2.2	Тор	ology Wizard	30		
	2.3	Dev	ice discovery	33		
	2.4	Sys	tem Bar	34		
		2.4.1	File	34		
		2.4.2	Edit	35		
	2	2.4.3	View	37		

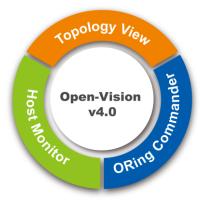


	2.4	4.4 Layout	39
	2.4	4.5 Management	39
	2.4	4.6 Help	10
	2.5	Tool Bar	11
	2.5.1	General	11
	2.5.2	Topology Management	11
	2.5.3	Map Management	14
	2.6	Device Tree & Group tree	15
	2.7	Topology	16
	2.8	Map	18
	2.9	System Log Area	18
HOS		TOR	50
	-		
	3.1	Add device	50
	3.2	System Bar	51
	3.2.1	File	51
	3.2.2	View	52
	3.2.3	Tool	52
	3.2.4	About	53
	3.3	Function Bar	53
	3.4	Group tree	54
	3.5	Monitor Area	54
TRO	UBLESI	HOOTING	55
	4.1	Why Topology View can not run in our computer?	55
	4.2	License key warning message	55
	4.3	SYSLOG warning message	55
	4.4	Why Topology View can not receive SNMP trap?	56



Getting to Know Your Switch

1.1 About the Open-Vision 4.0



A powerful management utility is necessary for administrators to monitor and maintain all devices in a local network. ORing is proud to announce Open-Vision 4.0, which is a powerful industrial network management windows utility suit, including three different programs, ORing Commander, Topology View, and Host Monitor that make central network management easily.

Open-Vision 4.0 provides various tools that enhance the convenience, comprehensibility, reliability,

and stability in four ways – Centralized management / Visualized management / Completed monitor / Early system. ORing's Open-Vision 4.0 is designed to meet various industrial network management demands. Only through the advanced monitoring features and smart alert systems, the administrators can be informed even in an unstable network environment so issues can be solved and recovery can be done immediately, to maintain the management quality assured.

1.2 System requirements

Minimum System Requirements

- Intel Core i5 (or above)
- VGA Monitor with 1024 x 768 resolution
- 4 GB RAM (recommended 8GB and above)
- Java Runtime Environment 8 32bit (note : not support 64bit version)
- Internet Explorer 8.0 or higher
- WinPcap 4.1.3 (or above)

Supported Network Protocols

- TCP / IP
- UDP
- SNMP



Operating System

- Windows 10
- Windows 7
- Vista
- Windows XP/2000
- Windows Server 2008
- Windows Server 2003

PS: Please make sure you have Java Runtime Environment installed on your computer. If not, Please download the latest Java Runtime Environment (JRE) from <u>http://java.com/en/download/</u>

1.3 Install Open-Vision

Please see the following instruction to install the Open-Vison

Step 1 User can get OPEN VISION from CD or ORING Web site. https://www.oringnet.com/en-global/products/detail/P000000918



Introduction Specification Order information Accessory Download					
Download 📀 guests 😳 member 👽 partner					
Datasheet	Preview	Version	Release date	Size	
Datasheet_Open- Vision_version_4.0.pdf	No	v1.0	Feb 25, 2019	1.37MB	\bigcirc
Manual	Preview	Version	Release date	Size	
UserManual_Open-Vision version 3.6.pdf	No	v1.2	Aug 31, 2018	2.06MB	0
Software	Preview	Version	Release date	Size	
Open_Vision.zip	See detail	Build 50.1	Apr 10, 2018	174.08Bytes	0

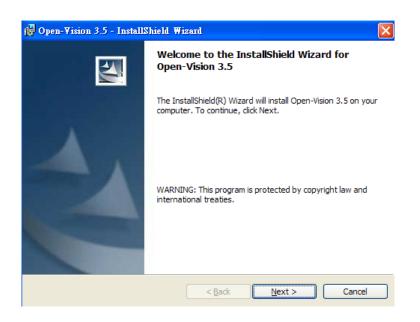


Download and Click on the Open-Vision install file , and then execute the Open-Vision3.6 EXE file to start the installation

InstallShield Wizard					
	Preparing to Install				
	Open-Vision 3.5 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.				
	Extracting: Open-Vision 3.5.msi				
	Cancel				

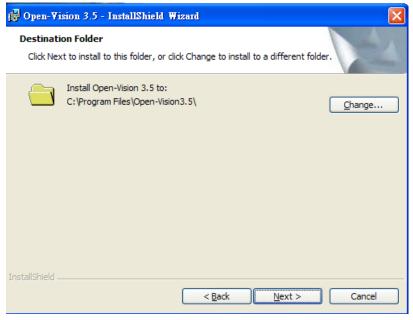
Step 3

Click [Next] to continue setup process.





Click on [Next] to install the Open-Vision on default directory or click on [Change] to change the path of installation. Then click on next to continue.



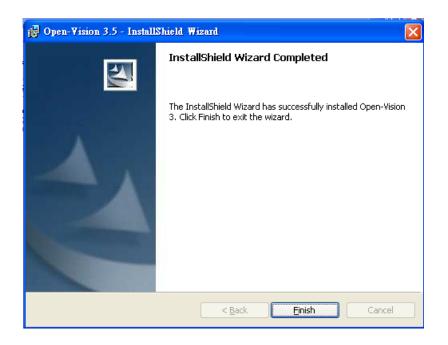
Step 5

Click on [Install] to start the installation.

🙀 Open-Vision 3.5 - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:	
Setup Type:	
Typical	
Destination Folder:	
C:\Program Files\Open-Vision3.5\	
User Information: Name: jim Company:	
J InstallShield)



When the Installation process is finished, click "Finish" to complete the Installing process.



After [Finish] is clicked, a new windows will pop up and asking for install Java runtime environment 8 (32bit) and WinPcap 4.1.3 which is a must for Open-Vision to run properly. And can be skip if both software are already been installed.



Click on [Yes] to start the Java runtime environment installation. Please follow the guide to finish the installation

i∰ Open-Vision 3.5 - InstallShield Wizard						
		InstallShield Wizard Completed				
		The InstallShield Wizard has successfully installed Open-Vision				
	Confirm					
	The utility must us	e Java runtime environment 6 (JRE6 32bit), please press Yes to install or	press No to cancel.			
	C					
		< <u>B</u> ack Finish Cancel				

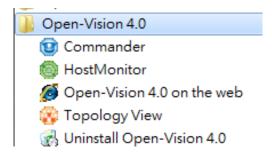
Step 8.

Continue to install WinPcap after choosing the option of Java runtime environment. Please follow the guide to finish the installation.

📴 Open-Vision 3.5 - InstallShield Wizard					
	InstallShield Wizard Completed				
	The InstallShield Wizard has successfully installed Open-Vision 3. Click Finish to exit the wizard.				
Confirm					
The utility must use	Winpcap ,please press Yes to install or press No to cancel.				
	< Back Einish Cancel				



After installation is done, a shortcut will be build in the $\[\] Start \] \rightarrow \[\] All$ Programs $\] \rightarrow \[\] Open-Vision 4.0 \]$.



1.4 Configuring PC network interface card

Please set the PC's IP address and subnet mask as the switch you wish to connect.

nternet Protocol (TCP/IP) Prop	erties ? 🔀
General	
You can get IP settings assigned aut capability. Otherwise, you need to as appropriate IP settings.	tomatically if your network supports this sk your network administrator for the
Obtain an IP address automatic	cally
• Use the following IP address:	
IP address:	192 . 168 . 10 . 66
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 10 . 254
Obtain DNS server address au	tomatically
─● Use the following DNS server a	ddresses:
Preferred DNS server:	6 6 6
Alternate DNS server:	£. 6 £
	Advanced
	OK Cancel

If there's two swich in different subnet, user will need to add in both subnets into the NIC.

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Commander

Command can be use to discover and configuration to all Oring's switches. It also include some useful wizard for fast configuration



1.1 Discovery

.

User can discover the entire switch within the NIC subnet by simply clicking on the "Discovery" button.

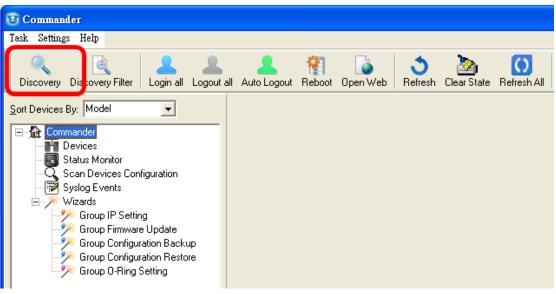
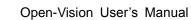


Figure 1-1





1.2 Discover Filter

In order to manage the switch in different domain (figure 2-2), user can use the "Discover Filter" to search and add the switch.

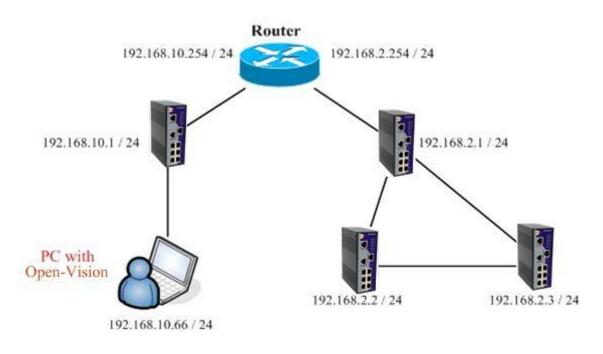


Figure 1-2

PS: The gateway of the PC must be the Router.

Step 1

Click on the Discovery Filter button





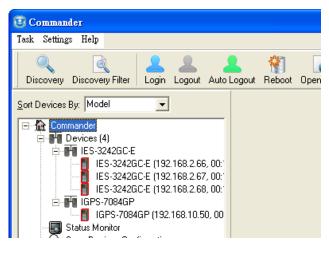


In the "Remote", enter the first remote IP and end remote IP range you need.

Click on the 🖆 button to add in the IP. A different subnet can also be add if need. Then click on "OK" button.

Set Discovery Filter	×					
Interface selection						
C Local Subnets						
Remote Remote IP Address or to range 192.168.2.66 192.168.2.68 192.168.2.67 192.168.2.68 192.168.2.68 192.168.2.68						
Clear 🔐 Delete						
🔚 Save 🗈 Load 🗙 Cancel 📝 OK						

And the switches will be found and add into list of the Commander.





1.3 Task tab

Task Settings Hel	P	_							
🔍 Discovery 🔍 Discovery Filter	Ctrl+F	Login all	Logout all	Auto Logout	Reboot	Dpen Web	3 Refresh	2 ClearState	C) Refresh A
💄 Login all 💄 Logout all	Ctrl+L	•							
	Ctrl+B								
💊 Open Web	Ctrl+₩								
🌖 Refresh	Ctrl+R	iguration							
🚫 Refresh All		garation							
🆄 ClearState									
된 Exit	Ctrl+X	g :Update							
		Kation Backı	qu						
		f&tion Resto							
🛛 🥍 Gro	up O-Ring	Setting							

Label	Description
Discovery	Click Discovery to discover the switches on the same subnet. Open-Vision will display all discovered switches on the management interface. Open-Vision discovers switched depend on discovery filter shows as next task. Note: all switches can be the same IP address. Open-Vision can discover and change IP by the Group IP Setting function.
Discovery Filter	Local : Open-Vision will only discover all switches connect to the specific IP of NIC that user select Remote : users are able to use specific IP addresses to discover switches.
Login all	Select switch to login to configure. Open-Vision can login to multiple switches that user selected. After login, the switch icon will change from to to the switch icon will change from to the switch icon will change from to the switch icon will change from the switch icon will change from to the switch icon will change from the switch icon will be switch icon will change from the switch icon will be swit

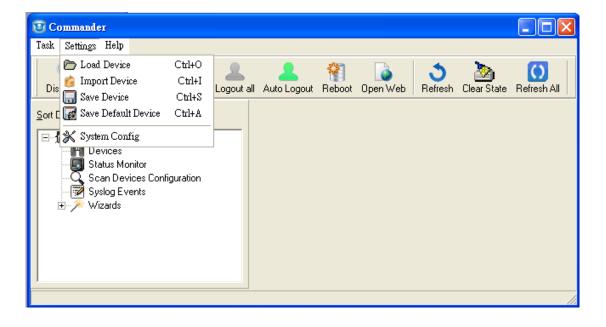


Open-Vision User's Manual

Logout all	Select switch to logout. Open-Vision can logout from multiple switches that user selected. After logout
	success, the switch icon will change from \blacksquare to. \blacksquare .
Reboot	Select switch to reboot. Open-Vision can reboot multiple
	switches that user selected. When user click reboot, a
	dialog window will be displayed on screen for confirming.
Open Web	Select switch to open web UI management. Open-Vision
Open Web	will open browser of your OS automatically.
Refresh	Refresh the specific switch function management
Reliesh	interface and switch configuration interface.
Refresh All	Refresh all switch function management interfaces and
Reliesh All	switch configuration interfaces
Clear state	User can clear device icon status



1.4 Settings



Label	Description	
Load Device	Users are able to re-load the IP address list (The old list will be cleared).	
Import Device	Users are able to re-load the IP address list (Will increase after the old list).	
Save Device	Users are able to save the IP address list on the Discovery Filter/Remote page.	
Save Default Device	Users can now "Device" is set to default values. Future start "Commander" of these devices will be displayed directly, without re-discovery.(need enable system config→ Load default device when start commander)	
System Config	Auto Logout time : Change the timer of the Auto logout. UDP Port : Open use this UDP Port scan device , default vale = 1638 .	



Syslog server :
Enable or disable Commander build-in syslog server.
Load default device when start commander :
Commander starts, automatically read the last used
device information (required the first use of setting \rightarrow
save default device save using configuration.)
Start minimize to system tray:
Minimize the commander to windows taskbar when the
commander start.
Run at Windows startup:
Enable to run Commander at WINDOWS startup.
Discover new devices without clearing device list:
Enable to discover a new devices without clearing
previous device in device list.
State Banner:
Enable to display the switch's port state.

1.5 Help



Label	Description
About	Display Open-Vision version information.



1.6 Icons Introduction

The most common use function has been fixed in this bar so user can use these function directly and no need to find it in tab.

Icon	Description
<u>D</u> iscovery	Please refer to page 14
Discovery <u>Filter</u>	Please refer to page 14
Login all	Please refer to page 14
Logout all	Please refer to page 14
Auto Logout	Commander will logout device automatically after enabled.
Reboot	Please refer to page 14
Open <u>W</u> eb	Please refer to page 14
S <u>R</u> efresh	Please refer to page 14
Clear State	Please refer to page 14
Refresh <u>A</u> ll	Please refer to page 14
Group IP Wizard	Open-Vision Group IP Wizard can configure multiple switches' IP Address. The function will be introduced more detail in Switch Management Interface chapter.



Group Firmware Wizard	Open-Vision Group IP Wizard can update multiple switches' firmware. The function will be introduced more detail in Switch Management Interface chapter.
Group O-Ring Wizard	Open-Vision Group O-Ring Wizard can setting multiple switches' O-Ring Function. The function will be introduced more detail in Switch Management Interface chapter.
(i) About	Please refer to page 17

1.7 Devices list

Switch discovered will be added into device list and also the total devices searched. User can start managing the switch by clicking on the switch and login.



1.8 LED and port status

Users are able to get switches information by the simple interface.



😨 Commander		
Task Settings Help		
Q Q Login all Logout all Auto Logout Reboot	Dpen Web Refresh Clear State Refresh All Group	Image: Strain of Concurrence
Soft Devices By: Model ■ Commander ■ Devices (4) ■ ■ Devices (4) ■ ■ ES-3062F-M ■ ■ ES-3026F-M ■ ES-3026F-M ■ ■ ES-3024CF-CE ■ ES-302426-CE ■ ■ ES-302426-CE ■ ES-302426-CE ■ ■ ES-30246-CE ■ ES-30246-CE ■ ■ ES-30246-CE ■ ES-30246-CE		192.168.10.13 PWR1 PWR3 Ring 101:E:94:24:02:3C PWR2 R.M Fault 3 5 7 4 6 8

lcon	Description
192.168.10.102 00:11:22:33:44:53	Show the IP and MAC Address of the switch.
1 3 5 7	Show the port link status of the switch.
PWR1 PWR3 Ring PWR2 R.M Fault	Switch Status LED .

1.9 Status Monitor

Status Monitor provides user to monitor switches. The disconnect switch will be mark and also the alarm

Query <u>P</u> e	eriod: 10 🚖	sec			
Query <u>T</u> i	imeout: 20 🚖	sec			
<u>B</u> eep Ala	arm: 🔽				
<mark>▼ S</mark> ou	und filename defined b	y user			
C:\Progr	ram Files\BetaOpen-V	ision/beep.wav			
C Open Redetect The Replaced Error Devices Celected Devices Selected Devices					
	IP	MAC Address	Model	Last Reported Time	Status
×1	IP 192.168.10.50	MAC Address 00:1E:94:11:22:33	Model IGPS-7084GP	Last Reported Time 2012/2/7 下午 06:12:03	Status Offline
H 2					
	192.168.10.50	00:1E:94:11:22:33	IGPS-7084GP	2012/2/7下午 06:12:03	Offline

Label	Description
Query Period	Timer to query for switch status.
Query Timeout	Device will be consider as error after query timeout
Beep Alarm	Enable/disable the beep alarm after the devices fail



Sound filename	Enable to customize the alarm sound.	
defile by user		
Redetect the	Pedetect the error device without waiting for query period	
replaced error	Redetect the error device without waiting for query period timer	
devices		
Delete Selected	Remove select device from list	
Devices		
Refresh	Refresh the devicestatus.	

1.10 Scan Devices Configuration

The Scan Devices Configuration will be able to scan and compare the configuration on device and backup configuration on PC to check whether the configuration on device is different.

PS: The naming format of the backup configuration must be (Model)_(kernel Ver)_(Firmware Ver)_(IP). For example

IGPS-7084GP_v7.11_v1.00_192.168.10.50.xml. Or user can use the Group Configuration backup to save the file in default file name.

C:\Users\Administrat						Source Directory
	🔽 Auto Bac	жир				
Every hour						
Every day	下午 11:00 🛛 🗧	•				
ast Scan Time:						
Last Scan nine.						🔍 Scan Now
Model	System Name	Kernel Ver.	Firmware	IP Address	Status	Filename
	System Name IGPS-9084GP	Kernel Ver. v9.80	Firmware v1.00	IP Address 192.168.10.11	Status	
Model					Status	Filename
Model IGPS-9084GP	IGPS-9084GP IGPS-9084GP	v9.80	v1.00	192.168.10.11	Status	Filename IGPS-9084GP_v9.80_v1.00_192.168.1
Model IGPS-9084GP IGPS-9084GP	IGPS-9084GP IGPS-9084GP	v9.80 v9.132	v1.00 v1.00	192.168.10.11 192.168.10.10	Status	Filename IGPS-9084GP_v9.80_v1.00_192.168.1 No Match File
Model IGPS-9084GP IGPS-9084GP	IGPS-9084GP IGPS-9084GP	v9.80 v9.132	v1.00 v1.00	192.168.10.11 192.168.10.10	Status	Filename IGPS-9084GP_v9.80_v1.00_192.168.1 No Match File

Label	Description
Source Directory	Select the directory of backup configuration
Auto Scan	Enable Auto Scan
Auto Backup	User can define hour or day , auto backup config



Every hour	Scan every hour(only work in auto backup enable)
Every day	Scan everyday on certain time(only work in auto backup enable)
Scan Now	Scan configuration immediately

1.11 Syslog Events

The build in Syslog server allow user to check and save the event of the switches.automatically.

 Auto S hreshold r 		🗁 Open	Saved File					
Event ID	Facility	Severity	Host	Date	Time	Port	Link State	Messages
1)2 1)2 1)3 1)4 1)5	user-level messages	Notice	192.168.10.1	2009/6/11	上午 09:41:20	Port.02	Link Down	admin:Port.02: Link Down!
D 2	user-level messages	Notice	192.168.10.1	2009/6/11	上午 10:11:31	Port.02	Link Up	admin:Port.02: Link Up!
D 3	user-level messages	Notice	192.168.10.3	2009/6/11	上午 10:11:31	Port.01	Link Up	admin:Port.01: Link Up!
Q 4	user-level messages	Notice	192.168.10.1	2009/6/11	上午 10:13:38			admin:0-Ring Topology Change
1)5	user-level messages	Notice	192,168,10,1	2009/6/11	上午 10:13:38	Port.01	Link Up	admin:Port.01: Link Up!

Label	Description
Save	Save system log info to excel file
clear	Clear exist system log
Auto Save	Enable to auto save the event.
Threshold num	Save the events when the number of message reach
Open saved file	Open saved log.



1.12 Wizards

The wizard allow user to do some basic setting on multi devices in one times e.g. IP, O-ring setting... etc.

1.13 Group IP Setting Wizard

The Group IP Setting Wizard allow user to set all device in the list in just a few steps. (Note: The function only for 3000 series device)

elect one or r	nore devices to be	configured.			
Model	MAC	IP	Model	MAC	IP
ES-3062GF-M	00:1E:94:25:00:20	192.168.10.1	IES-3062GF-M	00:1E:94:25:00:28	192.168.10.3

STEP: 1. Select one or more devices to be configured.



STEP: 2. Configure the IP address range or DHCP IP address

DHCP Model MAC Original IP New IP Server IP: 0.0.0.0 IES-3062GF-M 00:1E:94:25:00:28 192.168.10.3 192.168.10.1 IP Begin: 192.168.10.1 IES-3062GF-M 00:1E:94:25:00:20 192.168.10.1 192.168.10.2 IP Begin: 192.168.10.1 IES-3062GF-M 00:1E:94:25:00:20 192.168.10.1 192.168.10.2		ALC: UD			Configure the IP address ra
IP Bange: IES-3062GF-M 00:1E:94:25:00:20 192.168.10.1 192.168.10.2 IP Begin: 192.168.10.2 192.168.10.2 192.168.10.2 192.168.10.2 192.168.10.2		New IP	Original IP	Model	© <u>D</u> HCP
IP Hange: IP Begin: 192.168.10.1 IP End: 192.168.10.20					Server IP: 0.0.0.0
IP End: 132.168.10.20	IES-3062GF-M 00:1E:94:25:00:20 192:168:10.1	192.168.10.2	192.168.10.1	IES-3062GF-M	IP <u>R</u> ange:
	1				IP <u>B</u> egin: 192.168.10.1
	20			-	IP End: 192.168.10.20
Netmask: 255.255.0	5.0				Netmask: 255.255.255.0
Gateway: 192.168.10.254	254				Gateway 192,168,10,254

STEP: 3. Apply to finish the configuration.

Covery Discovery Eilter	→ (Open <u>W</u> eb <u>R</u> efresh Ref	resh <u>A</u> II Group IP Wizard	انگر Group Firmware Wizard	ထဲထဲ ထဲထဲ About		
evices By: None Dervices (3) All Devices (3) (192168.10.3, 00.1E:94.22 (192168.10.1, 00.1E:94.23 (192168.10.1, 00.1E:94.12 Status Monitor	Configur	up IP Set	ange or DHCP IP			
- 😿 Syslog Events	C DHCP		Model	MAC	Original IP	New IP
Devices Topology	<u>S</u> erver I	P: 0.0.0.0	V IES-2060	00:1E:94:12:00:02	192.168.10.1	192.168
Wizards		e:	V IES-3062F-M	00:1E:94:23:00:19	192.168.10.2	192.168
	IP <u>B</u> egin		V IES-3062GT	00:1E:94:22:00:25	192.168.10.3	192.168
and a critical r minimale o puace		· ·	-			
	IP <u>E</u> nd:	192.168.10.100				
	Net <u>m</u> asi	k: 255.255.255.0				
	<u>G</u> atewa	y: 192.168.10.254				
			K			>
					4.5	
N					🗢 <u>P</u> rev	Appl

1.13.1 Group Firmware Update Wizard

This Group Firmware update allow user to update a group of switch (with same model only) .in one times. So user can save the time to do the update one by one.

STEP: 1. Select one or more devices (same model one) to be configured.

		oup Fir		e l	Jpda	ate \	Wiz	zard	
Ker v2.40 v2.40	Firm ∨1.00 ∨1.00	MAC 00:1E:94:25:00:28 00:1E:94:25:00:20	IP 192.168.10.3 192.168.10.1	전 소 10	Model	Ker	Firm	MAC	IP IP

STEP: 2. Browse to select the Firmware to be upgrade.

	Group Firmware Update Wizard Select the upgrade method, local firmware image.									
Use <u>build-in support</u> :	Model	Kernel Ver.	Firmware Ver.	MAC	IP Address					
6	IGPS-7084GP	v7.11	v1.00	00:1E:94:11:22:33	192.168.10.51					
				🗌 Reboot	♦ Prev					



Select the upgrade method		Firmwa		pdate	e Wizaro	ł
Use <u>build-in support</u> :		Model	Kernel Ver.	Firmware Ver.	MAC	IP Address
C:\Program Files\BetaOpen\	0	IGPS-7084GP	v7.11	v1.00	00:1E:94:11:22:33	192.168.10.51
					🐐 Reboot	♀ Prev

STEP: 3. Press "Upgrade" to start the firmware upgrade.

STEP: 4. After finish upgrading, press on "Reboot" to reboot all upgraded devices.

Grou Select the upgrade method	I p Firmwa I, local firmware ima		pdate	e Wizaro	ł
Use build-in support:	Model	Kernel Ver.	Firmware Ver.	MAC	IP Address
C:\Program Files\BetaOpen\		v7.11	v1.00	00:1E:94:11:22:33	192.168.10.51
				🐐 Reboot	



1.13.2 Group Configuration Backup

This Group Configuration Backup allow user to backup configuration of multiple devices (same model only).

STEP: 1. Select one or multiple devices to be backup.

Ø	5	Gr	oup Co	nfig	ura	ation	Ba	ck	up Wiz	ard
Select one	e or m	ore de	evices to be con	figured.						
Model	Ker	Firm	MAC	IP		Model	Ker	Firm	MAC	IP
IAP-120+	v2.04	v2.00	00:1E:94:73:01:5E	192.16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IGPS-7084	v7.11	v1.00	00:1E:94:11:22:33	192.168.10.51
			· 						Prev	<u> </u>

STEP: 2. Browse the directory to save the configuration and click on "backup" to start the backup.

Ø G	roup	Confi	guration	Backup V	Vizard					
	Select the location to backup configuration.									
Use <u>b</u> uild-in support: C:\	D									
Model	Kernel Ver.	Firmware Ver.	MAC	IP Address	Status					
IGPS-7084GP	v7.11	v1.00	00:1E:94:11:22:33	192.168.10.51						
, 					₽ Prev Backup					



1.13.3 Group Configuration Restore

This Group Configuration Restore allow user to restore configuration of multiple devices (same model only).

STEP: 1. Select one or multiple devices to be backup.

Select one			oup Co		ura	ation	Re	sto	ore Wiz	ard
Model	Ker	Firm	MAC	IP		Model	Ker	Firm	MAC	IP
IAP-120+	v2.04	v2.00	00:1E:94:73:01:5E	192.16	<u>क</u> क <u>क</u>	IGPS-7084	v7.11	v1.00	00:1E:94:11:22:33	192.168.10.51
									🖨 <u>P</u> rev	<mark>⊫⊳</mark> <u>N</u> ext

STEP: 2. Browse the configuration file to be restore or checked the "Auto Filename Prefix" box to let the wizard detect the configuration file in the directory.

	Group Configuration Restore Wizard					
Select the location	to restore	Configurati	on.			
Use <u>build-in support</u> :		🔲 Auto Filer	name Prefix:			
C:\\GPS-7084GP_v7.*	11_v1.)	(Model)_(Kernel Ver)_(Firmware	e Ver)_(IP)		
Model	Kernel Ver.	Firmware Ver.	MAC	IP Address	Status	FileName
IGPS-7084GP	v7.11	v1.00	00:1E:94:11:22:33	192.168.10.51		C:\IGPS-7084GP_v7.11_v1.00_192.16
	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>					
	Prev C> Restore					



1.13.4 Group O-Ring Setting

This Group O-ring Setting allow user to configure O-Ring in multiple switches in one time.

STEP: 1.	Select	one or	multiple	devices	to be	configured.

Select or		-Ring W					
Model	MAC	IP		Model	MAC	IP	
				IGPS-7084	00:1E:94:11:22:33	192.168.10.51	
			⇒				
			4				
			\Box				
			k				
						Prev	⊳ <u>N</u> ext

STEP: 2. Select port need to set as ring port and client on "Apply".

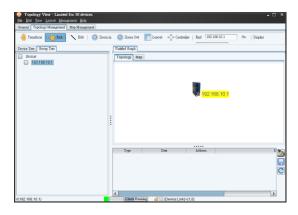
O-Ring Wizard					
Configure the ring ports of dev	lces				
	Model	MAC	IP Address		
1st Ring Port: PORT.01	IGPS-7084GP	00:1E:94:11:22:33	192.168.10.51		
2nd Ring Port: PORT.02 💌					
Coupling Port: NO USE					
Homing Port: NO USE 💌					
🕞 Save 🖉 Prev 🖾 🖨 Apply					



Topology View

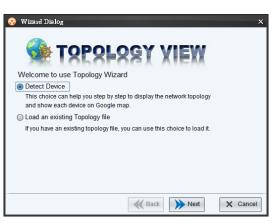
2.1 About the Topology View

Topology View is a useful and powerful network topology utility. It is able to display the network topology automatically. The network administrators are able to monitor the network devices and links status via Topology View immediately.



2.2 Topology Wizard

In default, the Topology wizard will pop up when the Topology is open. So user can start to discover devices and group settings etc. The wizard startup can also be enable/disable from the "Edit" \rightarrow "System Config" \rightarrow "Initial Conf" \rightarrow "Launch Wizard when system start".



There are three options in wizard, which are

Label	Description			
Detect device	Start the steps to discovery device and group setting			
Load an Existing Topology File	Load a backup Topology configuration file.			
Customized	To skip and close the wizard.			

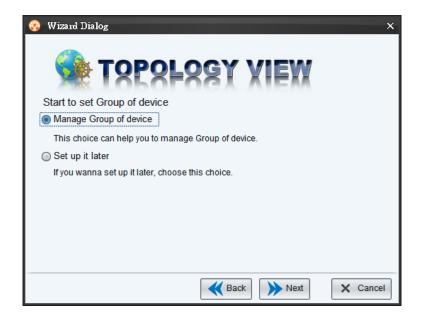


Please see the following steps of the Topology Wizard –Detect device.

Step 1 User can enter an IP range which allow it to scan the device automatically, or user can also add a device manually by using IP.

😵 Wizard Dialog	×
🐋 TOPOLOGY VIEW	ł
IP Address	Add
	Delete
	Clear All
	Help
Detect device setting	
192.168.10.1 to 192.168.10.254 Start	Stop
Back Next	X Cancel

Step 2 Select "Manage group of device" for the Group setting or skip by select "Set it up later" (please move to step 4)





Step 3 In the group management, user can add a new group and move the device into the group you want.

😵 Group Managemen	t Dialog X
<u>N</u> ew <u>D</u> elete	<u>R</u> ename
Group: Global	*
AAA	
Move to Group: AAA	✓ go
	<u>C</u> lose

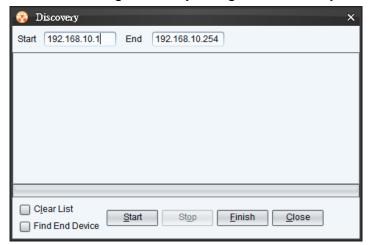
Step 4 User can setup the GPS position of the device by simply enter an address (internet need), and click Finish to close the wizard.

8	Wizard Dialo	g			×
	% -	T S P S	Logy	XIEX	ł
	IP	Address	Latitude	Longitude	Input Address
	192.168.10.1	Taipei	121.5598345	25.091075	Search IP
					Help
			K Bac	k 🗸 Finish	X Cancel



2.3 Device discovery

User can add in the Oring switch by using the Discovery functions.



Label	Description
Clear list	Enable to clear previous discovery device list
Find End Device	Find end device connected on switch (7000 series only
	and device binding must be enable)



2.4 System Bar

2.4.1 File

	Topology View - Lin	nited for 50 a		
File	<u>E</u> dit <u>V</u> iew <u>L</u> ayout <u>1</u>	<u>ví</u> anagement <u>F</u>		
	<u>N</u> ew	Ctrl+N		
	<u>O</u> pen	Ctrl+O		
Ġ	Import	Ctrl+I		
×	<u>C</u> loæ	Ctrl+C		
	S <u>a</u> ve as	Ctrl+S		
¢	Save all	Ctrl+L		
	Save as defualt topology			
3	Load History File	>		
	<u>P</u> rint	Ctrl+P		
	<u>E</u> xit	Ctrl+E		

Label	Hotkey	Description
<u>N</u> ew	Ctrl + N	Open a new Topology graph.
Open	Ctrl + O	Load saved topology
👩 Import	Ctrl + I	Import a saved topology into current graph
X Close	Ctrl + C	Close current topology graph
Save as	Ctrl + S	Save current topology graph
🧊 Save аД	Ctrl + L	Save all topology graph
Save as defualt topology	N/A	Save current topology as default graph.



Open-Vision User's Manual

_중 Load History File	N/A	Open saved configuration.
📥 Print	Ctril + P	Print current Topology
<u>∰</u> Exit	Ctrl + E	Quit Topology View.

2.4.2 Edit



Label	Hotkey	Description
Dixovery	Ctrl + D	Discover the Oring switches
		Auto Polling: Enable or disable Auto Polling function.
		Polling Time(s)me: Polling interval timer.
		Device(s)/Interval: How many devices to
🌼 System Config	N/A	polling at one time. Set to zero as all devices.
		Alive Threshold(1-100):device alive recheck ,
		Increase this value to avoid disconnection
		misjudgment when the network is congested.
		Retry : Link check retry

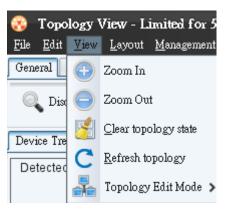


-	
	<u>-Trap Agent-</u> Trap Agent Alive: Enable trap agent can receive SNMP trap.
	Trap Port: Specifies the port used by the Trap
	Topology agent: Enable / Disable topology agent function
	-SNMP Parameter-
	SNMP Community: SNMP community read and write setting.
	Version: SNMP version V1 and V2
	Time out: SNMP timeout interval.
	-Report Manageter-
	Entry: Auto save the log while it reach this number set.
	Daily : Auto save the log at certain time everyday
	-Initial Conf-
	Load Topology : Load default topology when the Topology view is open
	Startup : Open Topology View in windows startup.
	Minimize : Minimize the Topology View after startup
	Discovery new device without
	cleaning: Discovery new device without
	clearing current discovered devices.



		Launch wizard when system starts: Launch wizard every time when the Topology view is open.
		View Option: Setting path size & font size and whether to show the device icon or not.
TopoView Config	N/A	Link Option: Setting Link status color. Background Option:User can define topology view desktop image.
Device database ma	nagement N/A	In the Device database management user can modify or add a new device OID, link up, link down, trap and locate icon.
🥖 Edit graph name	N/A	Edit current graph name.

2.4.3 View



lcon	Hotkey	Description
🕒 Zoom In	Ctrl + up	Zoom in the topology.
Zoom Out	Ctril + down	Zoom out the topology.
📕 <u>C</u> lear topology state	N/A	Clear topology state of current
	IN/A	graph



C Refresh topology	N/A	 Recheck device: Check whether the device is still exist or not. Device will be remove device if it doesn't exist. Recheck link: Check the link, the line will be remove if the connection has broken. Recheck state: Check current state, wouldn't not remove any devices or line if it doesn't exist. Recheck type: Check device model, will change the icon when replacing the device with a same IP but different model's device.
💑 Topology Edit Mode	N/A	Transform: To move the topology.Pick: To select and drag a device.Line: To edit a line manually.



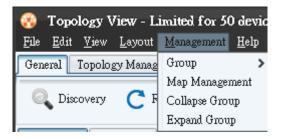
2.4.4 Layout

In the Topology View, it provide 2 kind of layout which can arrange the device topology in automatic, so user can save times to drag every device manually.



2.4.5 Management

Select Management to show Management menu.



Label	Hotkey	Description		
		Add: Add a new group.in group tree		
		Edit: Edit selected group		
		Delete: Delete selected group.		
		Manage Group : Group management		
Group	N/A	New:	Add a new group.	
		Delete:	Delete selected group	
	Rena Rena		Rename:	Rename selected group
		-	Add/remove group or device	
			from selected group	





Map Management	N/A	Edit the device's map related information e.g. latitude and longitude. And to enable or disable devices whether to be display on map or not.
Collapse Group	N/A	Collapse selected groups
Expand Group	N/A	Expand selected group

2.4.6 Help

😵 Тор	😵 Topology View - Limited for 50 devices 🚽					
<u>F</u> ile <u>E</u> di						
General	Topolo	gy Manag	ement	Map N	-	About

Label	Hotkey	Description
About	N/A	Show the version information of Topology View.



2.5 Tool Bar

2.5.1 General

General Topolog	y Management	Map Management		
Q Discovery	C Refresh	💕 Clear State	[Map Management	🛞 Wizard

Icon	Description
Discovery	Please refer to page 35
C Refresh	Please refer to page 38
🚰 Clear State	Please refer to page 37
💽 Map Management	Please refer to page 40
🔆 Wizard	Open the wizard

2.5.2 Topology Management





Topology View - Limited for 50 devices File Edit View Layout Management Help	
General Topology Management Map Manageme	ent
iransform Vick 🔪 Edit 🔂 Zoo	om in 🤤 Zoom Out 📗 Layout 📲 Centralize
Device Tree Group Tree	Untitled Graph
Detected Devices	Topology Map
192.168.10.10	
192.168.10.11	
192.168.10.12	
	RM
	Open Web
	Log Event
	Device Information
	Link Status
	Device Annotation
Device Information	Location Alert
Device IP:192.168.10.10	Ping Device
System Name:IGPS-9084GP	Telnet
System Description:Industrial 12-port managed Gigab MAC Address:00:1E:94:03:9A:75	Port Performance
	Ring Information
	Collapse Group
	Manage Group
	SuperVisor

Icon	Description
ullet Transform	This mode , allow use move all topology
	This mode, use can config or move single
	device
	Open web :
	open the device WEB GUI
Ju Pick	Log Event :
	open the device Event log WEB GUI.
•	Device Information:
	in this page , use can check device IP , Neighbor
	Device IP, system name , device MAC Address ,
	OID.



	Link Status:					
	show the device port link info .					
	Device Annotation :					
	use can add annotation in switch .					
	Location Alert :					
	enable location alert function					
	Ping Device :					
	ping this device					
	Telnet :					
	open telnet CLI(windows need install Telnet					
	service first)					
	Port Performance :					
	show traffic info by graphic					
	Port performance					
	Flow dops)					
	Ring Information:					
	show all redundant ring info (O-Ring / O-Chain)					
	Collapse Group:					
	collapse topology vioew icon to group mode					
	Manage Group:					
	open Group mode management window					
	Supervisor :					
	If use enable switch device binding function , can					
	show 3 party device in topology view .					
Ledit	This mode allow user create / remote device or					
	path.					
🕣 Zoom in	Please refer to page 37					
Coom Out	Please refer to page 37					



Layout	Layout devices automatically(KK Layout)
▶ < Centralize	Centralize on devices
Find 192.168.10.50	Find a specific device in IP.
Display Ip 🗸	Display devices information in IP, System name, annotation, disable display or show / hide supervisor.

2.5.3 Map Management

General Topolog	y Management 🛛 Map I	Management				
🔍 Fetch Map	🐝 GlobalGroup	懀 Up Level	🕒 Zoom in	😑 Zoom Out	⊨ Print Map	📘 Save Map

Task	Description
C Fetch Map	Refresh the map
🐝 GlobalGroup	Back to GlobalGroup
👚 Up Level	Go to upper group.
🚯 Zoom in	Maps zoom in
Com Out	Maps zoom out
⊨ Print Map	Map printing
📕 Save Map	Save map



2.6 Device Tree & Group tree

Detected devices will be display in the Device Tree and group tree

In the device tree we can double click on the devices to search the devices, and we can also right click on the devices for the device setting options.

Device Tree Group Tree
Detected Devices
192.168.10.11
192.168.10.12
192.168.10.13

In Group Tree, in default all devices will be place under the GlobalGroup. And Device with Map active will have a tick on it.

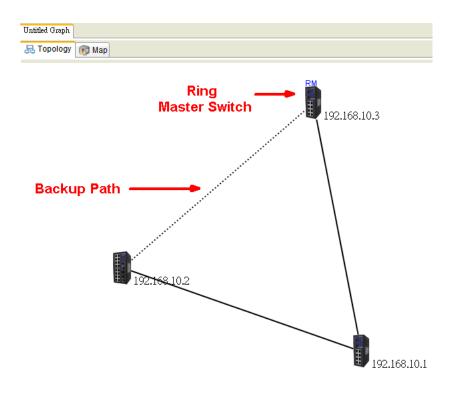
We can also right click on the group for the group management options or right click on device for device setting options

C Global	Device Tree Group Tree					
	🔄 Global					
192.168.10.11	192.168.10.11					
192.168.10.12	192.168.10.12					
192.168.10.13	192.168.10.13					



2.7 Topology

Device's network topology will be show in the Topology area automatically on the topology area.



Note:

The SNMP Read Community between Topology View and devices must be the same to work properly. Default value=public. And the LLDP of the devices must also be enable.

In the topology, we can right click on the device for the device settings options or right click on the line for the Link Status or Link Annotation (Path Option in Edit \rightarrow TopoView Config will need to be enable to display annotation on the line)

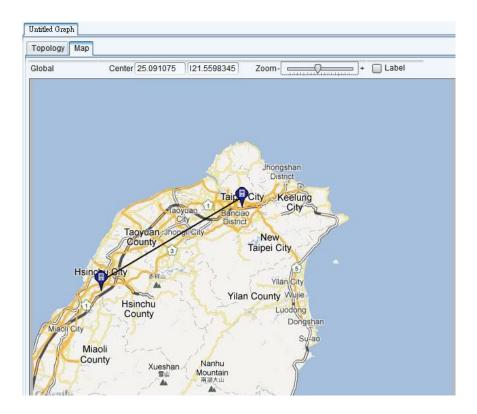


Untitled Graph	
Topology Map	
1 92.168.10.1	Link Status Link Annotation
ICON	Description
	Device ICON
	Device link down
	Device back online
Same and a second se	Locating device (flashing)
	Maps zoom out
	Link down
	Backup link
	Link back online.



2.8 Map

The devices with Map Active enable will be show in the map. With the help of this map, user can see where these devices installed.



2.9 System Log Area

The Topology View also build in a system log which .will record the link down event etc..

Туре	Date	Address	Description	
Topology_Device	10-Apr-2012 14:14:36	192.168.10.1	Alive	
Topology_Link	10-Apr-2012 14:14:24		192.168.10.1-192.168.10.50 LinkDown	
Topology_Device	10-Apr-2012 14:14:24	192.168.10.1	Fail	
	^	·		
1				
1			2	

Task	Description
2	Clear log



	Save log to file.
C	Refresh log.



Host Monitor

By using the Host monitor, user can monitor the alive time of all IP devices.

) Host Monitor File View Tool Help	>		100					x
New Open Save Add	Delete Stop		Interval 3 s	ec Timeout 3	sec 💙			
Group	Monitor	Message						
Default	Status	Туре	Description	Name	Reference	Total tests	Fail tests	
		H		192.168.10.1	1	6	6	
		H		192.168.10.2	1	6	6	
		H		192.168.10.3	1	5	5	
		H		192.168.10.4	1	5	5	
		H		192.168.10.5	1	5	5	
		H		192.168.10.6	1	5	5	
		H		192.168.10.7	1	5	5	
		H		192.168.10.8	1	5	5	
		H		192.168.10.9	1	5	5	
		H		192,168,10,10	1	5	0	

3.1 Add device

First, user can add in a device by using the Add button.

🔘 Add to [Default	t]	~	und.					×
GroupName	Group	Name			K			
Default	 Host 	Prefix	192.168.10	Start	1	End	10 🗸	
Туре			Name					
TYPE_HOST			192.168.10.1					
TYPE_HOST			192.168.10.2					
TYPE_HOST			192.168.10.3					
TYPE_HOST			192.168.10.4					
TYPE_HOST			192.168.10.5					
TYPE_HOST			192.168.10.6					
TYPE_HOST			192.168.10.7					
TYPE_HOST			192.168.10.8					
TYPE_HOST			192.168.10.9					
TYPE_HOST			192.168.10.10					

Label	Description
Group	Add a new Group
Host	Enter the subnet and a range to be add.



3.2 System Bar

3.2.1 File



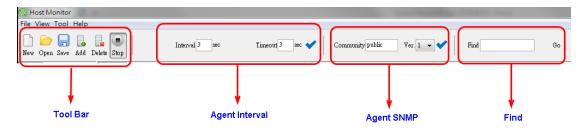
Label Hotkey		Description
<u>N</u> ew	Ctrl + N	Stat new host monitor.
Open	Ctrl + O	Open previous saved host monitor
Save	Ctrl + S	Save current host monitor.
Tit	Ctrl + E	Quit Host Monitor



3.2.2 View

User can define each control bar display or close.

(i) H	ost l	Monitor
File	Viev	v Tool Help
	\checkmark	ToolBar
New	\checkmark	Agent Interval
		Agent SNMP
Gro	\checkmark	Find
III ≜ [¹	летат	



3.2.3 Tool

🔞 Host M	onitor
File View	Tool Help
	System Config
New Open	Save Add Delete St

Label	Description
	Report: Enable / Disable the report.
System Config	Agent: Enable / Disable the checking agent. And timer of the time interval and timeout.



3.2.4 About

Host monitor version



3.3 Function Bar



Label	Description
New	Start a new monitor
Copen	Load saved file
Save	Save the scan list to file .
bbA 曼	Add device
Delete	Remove select device / group
, Stop	Start or Stop monitor
Interval	Checking interval timer
Timeout	Time out timer



SNMP Community	Setting SNMP read Community
SNMP Version	Select SNMP Version
Find	Find specific device by using IP

3.4 Group tree

Device add will be show in the Group tree.

	Most Monitor File <u>T</u> ool <u>H</u> elp
	📄 New 👝 Open 📑
	Group
	Global
	Lest
	Description
d device.	

Label	Description	
Add	Add device.	
Delete	Remove select device / group.	
Edit	Edit select device / group and description.	

3.5 Monitor Area

Current devices state will be show in the Monitor table. The status will be show in green icon and timeout devices will be show in red icon.

Monitor Message							
Status	Name	Description	Success Times	Failure Times	Reference	Last Test Time	
	192.168.10.1		0	0	1		~
	192.168.10.2		0	0	1		
	192.168.10.3		0	0	1		



TroubleShooting

4.1 Why Topology View can not run in our computer?

Please make sure your computer has installed JRE, if not, please install Java Runtime Environment (JRE) 8 - 32bits from java website.

4.2 License key warning message

When implement Open-Vision, the computer pop-up the warning message as below. It's meaning that the computer didn't insert the USB license key. Please insert license key to enter license mode and then press ok or press cancel to limit the operations to 10 devices.

Confirm	
?	Please insert license key to enter license-mode or press cancel to limit the operations to 10 devices.

4.3 SYSLOG warning message

When implement Open-Vision, the computer pop-up the warning message as below. You can check is there any third party **System Log Server** (ex : tftpd or ORing's DS-Tool) running on the computer. If you do not care about the system log function, press 「Ignore」 to continue.



Warning	
	Cannot bind SYSLOG port, syslog function will be disabled. Press Ignore to continue.
	Abort Ignore

4.4 Why Topology View can not receive SNMP

trap?

When open Topology VIEW, if the computer pop-up the warning message as below. You can check is there any running third party **SNMP software** (ex : MG-Soft or SNMPc) on the computer. Please stop these applications, because these applications will occupy SNMP port.

