User Manual JetView Pro

Rev. A 04/2016 Cód. Doc.: MU225601





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It is essential to read and understand the product documentation, such as manuals and technical characteristics before its installation or use.

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1.Introduction

The JetView Pro is a Network Management System – NMS and was designed specifically for critical applications on industrial environments. The JetView Pro provides a comprehensive platform for monitoring, configuring, and maintaining mission-critical IP-based communication networks, such as IP surveillance, factory automation, mining, substation, maritime and military applications.

🧿 JetView Pro Network Management v1.6.2 (Server 127.0.0.1)								
<u>F</u> ile <u>M</u> a	File Management Configuration Help							
🔍 Fin	d 🥖	Edit M	ode 🛛 🍪 Web Browse	er 🤤 SNMP Browser	Scan Network 🖗 I	Fast Scan 🎲 Preferences	Zoom 50 🗘	
Мар			Topolo	gy All Devices		_		
			Birre	altus				
								~
L			<				>	
Event M	anageme	nt SN	MP Trap Receiver				All Events 🗸 🖓 Filter Ack. All	
ID	Ack	Туре	Category	Receive Time	Source	Component		
9		0	Application Info	2016-04-12 16:43:57	JetView Pro Service	Remote Access	The client leave Edit mode. From:127.0.0.1:5977	^
8		Θ	Application Info	2016-04-12 16:43:32	JetView Pro Service	Remote Access	Authentication is success in Edit mode. From:127.0.0.1:5977	
7		Θ	Application Info	2016-04-12 16:43:29	JetView Pro Service	Remote Access	The client leave Edit mode. From:127.0.0.1:5977	
6		\bigcirc	Application Info	2016-04-12 16:43:26	JetView Pro Service	Remote Access	Authentication is success in Edit mode. From:127.0.0.1:5977	
5		Θ	Application Info	2016-04-12 16:42:14	JetView Pro Service	Remote Access	Authentication is success in Monitor mode. From:127.0.0.1:5977	
4		Θ	Application Info	2016-04-12 16:26:51	JetView Pro Service		JetView Pro Started	
3		Θ	Application Info	2016-03-02 09:29:38	JetView Pro Service	Remote Access	The client leave Monitor mode. From:127.0.0.1:5757	
2		Θ	Application Info	2016-03-02 09:29:21	JetView Pro Service	Remote Access	Authentication is success in Monitor mode. From:127.0.0.1:5757	~
<							>	

Figure 1–1. JetView Pro

Innovative Features

JetView Pro has the following features:

- Manage IP-based devices from both central office and remote sites
- Automated network discovery and topology visualization
- Event handling via polling, syslog, email, and SNMP trap. Notifications can be sent via email, application programs, SNMP trap, SMS, and MSN Messenger
- Device configurations via SNMP, Web, Telnet, and SSH
- Provide SNMPv1/v2c/v3 Browser and SNMP MIB compiler
- MSR group management
- Provide performance management
- Provide accounting management
- Centralized management to reduce network traffic

Supported Devices

Supported Devices by Functions:

Auto Topology (LLDP), device management, and device discovery features Auto Topology, device management, and device discovery features can be applied in the IP-enabled devices which support LLDP and SNMP features. For instances, Connect series and 3rd party devices that support LLDP and SNMP features.

• Connect series: JN4508f-m

Device Management and Device Discovery Features

Device management and device discovery features can be applied in the IP-enabled devices which support SNMP feature. For instances, Connect series and 3rd party devices that support SNMP.

• Connect series: JN4508f-m

Device Discovery Feature

Device discovery feature can be widely applied in all the IP-enabled devices. For example, Connect series and 3rd party devices that support WEB or telnet features and general windows PCs.

• Connect series: JN4508f-m

Support MIBs

JetView Pro supports the following standard MIBs in addition to the private MIBs.

- RFC1213-MIB-II.mib RFC1215-MIB-II.mib
- RFC1398-ETHER.mib
- RFC1493-BRIDGE.mib
- RFC1724-RIP.mib
- RFC1757-RMON.mib
- RFC1850-OSPF.mib
- RFC3621-PSE.mib

Ordering Information

A trial version that supports monitoring of 16 IP-enabled devices is available for authorized distributors.

Request licenses as follows:

- 32 manage 32 devices
- 64 manage 64 devices
- 128 manage 128 devices
- 256 manage 256 devices
- 1024 manage 1024 devices
- Unlimited unlimited devices

For more detailed information, please contact your local sales representative.

Documents Related to this Manual

For additional information about JetView Pro, you can examine other specific documents in addition to this one. These documents are available in its last review on <u>www.altus.com.br</u>.

General Regards on Altus Documentation

Each product has a document called Technical Characteristics (CT), where there are the characteristics for the product in question. Additionally, the product may have User Manuals (manual's codes, if applicable, are always mentioned at CTs from the respective modules).

Support and Documentation

It is advisable to consult the following documents as a source of additional information:

Code	Code Description	
CE125000	Connect Series – Technical Characteristics	English
CT125000	Série Connect – Características Técnicas	Portuguese
CS125000	Serie Connect – Características Técnicas s	Spanish

Visual Inspection

Prior to installation, we recommend performing a careful visual inspection of equipment, by checking if there is damage caused by shipping. Make sure all components of your order are in perfect condition. In case of defects, inform the transportation company and the nearest Altus representative or distributor.

CAUTION:

Before removing modules from the package, it is important to discharge eventual static potentials accrued in the body. For this, touch (with nude hands) in a metallic surface grounded before modules handling. Such procedure ensures that the levels of static electricity supported by the module will not be overcome.

It is important to record the serial number of each item received, as well as software revisions, if any. This information will be necessary if you need to contact Altus Technical Support.

Technical Support

To contact Altus Technical Support in São Leopoldo, RS, call +55 51 3589-9500. To find the existent centers of Altus Technical Support in other locations, see our site (<u>www.altus.com.br</u>) or send an email to <u>altus@altus.com.br</u>.

If the equipment is already installed, please have the following information when requesting assistance:

- Models of equipment used and the configuration of installed system
- Equipment review and software version used

Warning Messages Used in this Manual

In this manual, warning messages will present the following formats and meanings:

DANGER:

Relates potential causes that if not noted, generate damages to physical integrity and health, property, environment and production loss.

CAUTION:

Relates configuration details, application and installation that shall be followed to avoid condition that could lead to system fail, and its related consequences.

ATTENTION: Indicate important details to configuration, application or installation to obtain the maximum operation performance from the system.

2.Installation

This section includes software installation. Following topics are covered in this section.

System Requirements

Processor:

• Minimum Intel Core 2 Duo CPU 2.5 GHz or higher

RAM

• 1GB RAM

Disk

• 1GB hard disk

Software, Operation system

- Windows XP/2000/2003 platforms
- Windows Vista/7 platforms

Windows Vista/7 notice

• Execution JetView Pro using the system administrator

Turn on Telnet and TFTP System Commands:

Turn on Telnet client:

Teine	t Information *				
	Uninstalls Telnet				
	This is a limitation of OS (Windows Vista/7/8, Windows Server 2008/2008 R2), telnet client can't be executed correctly				
	Please refer to the following steps :				
	Turn on Teinet client :				
method 1 : Start -> Control Panel -> Programs -> Turn Windows features on or off -> Select Telnet Client -> Click OK					
method 2 : Start -> Control Panel -> Programs and Features -> Turn windows features on or off -> Select Telnet client -> Click OK					
method 3 : Start -> Control Panel -> Uninstall or change a program -> Turn windows features on or off -> Select Telnet client -> Cl					
	For 64-bit Windows, the other steps may be required				
	Copy %WinDir%\System32\telnet.exe to %WinDir%\sysWow64\				
	OK				

Figure 2–1. Turning ON Telnet Client on Windows

Method 1:

Start -> Control Panel -> Programs -> Turn Windows features on or off -> Select Telnet Client -> Click OK.

Method 2:

Start -> Control Panel -> Programs and Features -> Turn windows features on or off -> Select *Telnet client ->* Click *OK*.

Method 3:

Start -> Control Panel -> Uninstall or change a program -> Turn windows features on or off -> Select *Telnet client ->* Click *OK*.

For 64-bits Windows, the other steps may be required. Copy $WinDir\%\System32\telnet.exe to <math display="inline">WinDir\%\SysWow64\$

Turn on TFTP client:

TFTP	TFTP Information 8						
	Uninstalls TFTP						
	This is a limitation of OS (Windows Vista/7/8, Windows Server 2008/2008 R2), the client can't be executed correctly						
	Please refer to the following steps :						
Turn on TFTP client:							
method 1 : Start → Control Panel → Programs → Turn Windows features on or off → Select TFTP Client -> Click OK method 2 : Start → Control Panel → Programs and Features -> Turn windows features on or off -> Select TFTP client -> Cl							
				method 3 : Start -> Control Panel -> Uninstall or change a program -> Turn windows features on or off -> Select TFTP c			
	For 64-bit Windows, the other steps may be required						
	Copy %WinDir%ISystem32\TFTP.exe to %WinDir%\sysWow64\						
	OK						

Figure 2–2. Turning ON TFTP on Windows

Method 1:

Start -> Control Panel -> Programs -> Turn Windows features on or off -> Select TFTP Client -> Click OK.

Method 2:

Start -> Control Panel -> Programs and Features -> Turn windows features on or off -> Select *TFTP client ->* Click *OK*.

Method 3:

Start -> Control Panel -> Uninstall or change a program -> Turn windows features on or off -> Select *TFTP client ->* Click *OK*.

For 64-bit Windows, the other steps may be required:

Copy %WinDir%\\System32\\TFTP.exe to %WinDir%\\sysWow64\\

Windows Firewall

The Windows Firewall may affect the function of backing up Connect device's configuration. Therefore, it is suggested to turn off Windows Firewall or enable TFTP port on Windows Firewall.

Antivirus Software

Some of the antivirus software may affect the JetView Pro function, it is suggested to turn off the Antivirus Software, if possible.

Screen Resolution

It is optimized for a screen resolution of 1024x768.

Installation

Run the file JetView Pro.MSI and wait for the installation to complete:



Figure 2–3. JetView Pro Installation

At the end of the installation process, two shortcuts will be created on desktop:



Figure 2–4. Shortcut for Local Host Connection



Figure 2–5. Shortcut to Connect to Remote Server

Uninstallation

Remember to quit the JetView Pro program before you get starting the uninstall process.

Follow the steps below to uninstall:

- 1. To uninstall JetView Pro, select Start / Control Panel / Add or Remove Program
- 2. Select the program JetView Pro
- 3. Click on Remove and follow the instructions of the uninstallation process

Another option is to go directly on Start Menu / All Programs / Altus / Uninstall JetViewPro.

3.Getting Started

JetView Pro Applications

JetView Pro is a client/server based network system. One JetView Pro server can serve many remote access JetView Pro clients (maximum is 5) see Figure 3–1 figure below.

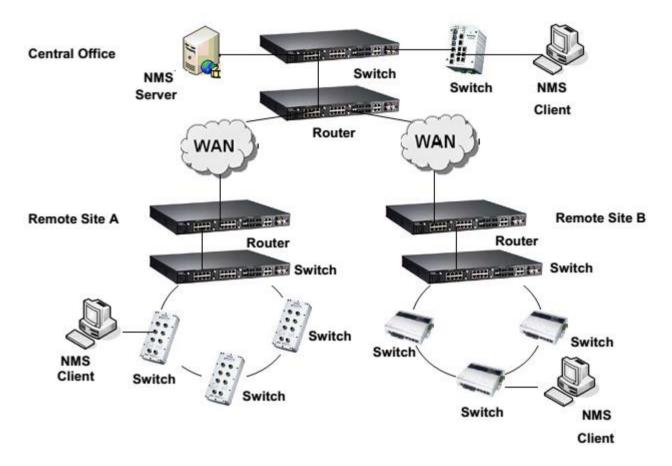


Figure 3–1. Example of Network Using JetView Pro

Due to the accounting management, only one client can enter the Edit mode at the same time and other clients are in the Monitor mode. The default password to enter the two modes is *korenix*. The Monitor mode can only allow viewers to browse the topology. The Edit mode can use all functions.

Note:

Only one remote client connection per computer is possible. The server will refuse the new connection if already one session exists

Run JetView Pro Server and Remote Access Clients

JetView Pro Service starts automatically when Windows XP starts. You can get the status of the service in Windows XP under *Start / Control Panel / Administration / Services*. This service has a connection to a database containing all the relevant data for the settings of JetView Pro. Note that when the service is stopped, the relevant monitored data cannot be recorded into the database.

For Windows XP, it starts automatically *JetView Pro Service* after installation. You can change Startup type of this service to Manual if you don't want the service to run after your pc boot up.

Start JetView Pro Server on Server Site

- 1. Start / Programs / Altus / JetViewPro (local host)
- 2. Display JetView Pro main window

Elle Management Configuration Help				
🔍 Find 🥜 Edit Mode 🛛 🚱 Web Brow	iser 🛛 😜 SNMP Browse	r 🗐 Scan Network	🖗 Fast Scan 🌐 Pret	erences Zoom 50 C
	gy All Devices			
may 1000	04 All Devices			
				All Events
Event Management SNMP Trap Receiver				Participant Active
ID Ack Type Category	Receive Time	Source	Component	
2 Application Into	2014-08-04 10:01:57		Remote Access	Authentication is success in Monitor mode. From:127.0.0.1:566
1 G Application into	2014-09-04 09:39:24	19976		NMS Starled
				<u>کا</u>

Figure 3–2. JetView Pro Interface

Start JetView Pro Client (Connect to Server)

- Start / Programs / Altus / JetViewPro
- Enter server address to connect. (ex. Server IP: 192.168.10.100)

Input		×
2	Please enter server address	
	OK Cancel	

Figure 3–3. Connecting to a Server IP

• Enter password into monitor mode and press *OK*

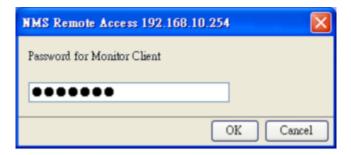


Figure 3–4. Inserting Password for Monitor Client

• Display JetView Pro main window

Image: Stand Stress Stress Stand Stress St	^
Map Topology All Devices	~
	^
	v
5	>
EventManagement SNMP Trap Receiver All Events	V Filter Ack.All
ID Ack Type Category Receive Time Source Component	
	Manitar mode. From:127.0.0.1:566
1 Application into 2014-08-04 09:39:24 NMS Service NMS Started	
٢	

Figure 3–5. JetView Pro Main Window

4. Interface of JetView Pro

Main Window

When you start JetView Pro, the main window appears on the screen. It consists of the following parts:

- Menu Function
- Toolbar Function
- Map Tree
- Topology Tab
- All Devices Tab
- Event Management Tab
- SNMP Trap Receiver Tab

Enter the Edit Mode

The Monitor mode is only able to view the topology when starting JetView Pro into main window. To change the settings, need to enter Edit mode.

1. Click on *Edit Mode* on the toolbar, it displays Password dialog.

G Fil Map		Edit N	onigurator Aode 🔓 😨	Help Web Brow Topolo	144 C 14	r 🍯 Scan Network	🖗 FastScan 🚳 Pre	ferences Zoom 60 C
				K	Password	amote Access 192.1 # for Edit Client	<u> </u>	ncel
Eventh	/anager	nent	SNMP Trap	Receiver				All Events
ID	Ack	Туре	Cab	egory	Receive Time	Source	Component	- I
94	D	6.2	Application		2014-08-04 17:40:57		Remote Access	Authentication is success in Monitor mode, From 127.0.0.1:6
93	B	6	Application		2014-08-04 17:39:18	\$21155.5 \$1131.5	Remote Access	The client leave Monitor mode. From: 127.0.0.1:5907
92	Ø	- G	Application		2014-08-04 17:39:18		Remote Access	The client leave Edit mode. From: 127.0.0.1:5907
91	D	9	Application		2014-08-04 17:38:40		Remote Access	Authentication is success in Edit mode. From 127.0.0.1:5907
90	0	6	Application		2014-08-04 17:38:31		Remote Access	Authentication is success in Monitor mode. From 127.0.0.1:6
89	B	(m)	Application		2014-08-04 17:38:27		Remote Access	The client leave Monitor mode, From: 127.0.0.1:5714
BB	D	6	Application		2014-08-04 17:38:27		Remote Access	The client leave Edit mode, From: 127.0.0.1:5714
BT	Ö	0	Application		2014-08-04 17:37:35		Remote Access	Authentication is success in Editmode, From 127.0.0.1-6714
<	1000			900-54	destation and encodered			>

Figure 4–1. Inserting Password for Editing Mode

- 2. Input password (default password) and press OK
- 3. After entering Edit Mode, the button will become green.

Eile Management Configu	
🔍 Find 📝 Edit Mode	🚳 Web Browser 🤤 SNMP Browser 🖷 Scan Network 🌾 Fast Scan 🎆 Preferences Zoom 60 🗘
Map @ 192.168.0.199	Topology All Devices

Figure 4–2. Edit Mode Enabled

In the Edit mode, all functions are available. If return to Monitor mode, click on Edit Mode again.

Menu Function

The menu function contains the following selection items:

- File
- Management
- Configuration
- Help

File	Management	Configuration	Heln
THE	management		Herb

Figure 4–3. Function Menu

File Submenu

File – Open: opens the previous saved database file.

File - Save: saves the current database into file.

File – Export: exports the displayed map in the Topology Map as Image file (BMP, JPEG, PNG format)

File – Print: exports the displayed map in the Topology Map as PDF file.

File – Exit: closes the JetView Pro Main Window.

File - Exit and Stop Service: closes JetView Pro Main Window and stops JetView Pro Service

Open	
Save	Ctrl+S
Export	
Print	
Exit	
Exit and Stop Service	

Figure 4–4. Expanded File Menu

Management Submenu

For more information see the chapter Configure File Operation.



Figure 4–5. Management Submenu

Configuration Submenu

For more information see the chapter Performance Management.



Figure 4–6. Submenu Preferences

Help Submenu

It shows the version and release date of JetView Pro.

About

Figure 4–7. About Submenu

Toolbar Function

- Find, quickly find out the selected device by IP address
- Edit Mode, click on *Edit Mode* to enter into Edit mode by input password
- Web Browser, run Web browser to configure by Java Applet on switch device
- **SNMP** Browser, the SNMP Browser tool lets you read and write the MIB of the IP-Address device

For more information see the chapter Restore.

14.5	► ₩ ₽	IP Address:	192.168.0.199 🛩	SNMP Agent Profile			
0 10	dod	Object ID:	.1.3.6.1.2.1.1.1.0				
0	ooo ⊝ internet	Get Get Next Walk Table View Stop					
	E mamt	081	Germent	ar Large aleva Digh			
	B mib-2	SetValue:		Set			
	⊖ mio-z ⊝ system						
		List Table		Clea	đ		
	sysDescr sysObjectID	Name	Object ID	Value			
	sysUpTime		1.3.6.1.2.1.1.1.0	Industrial Managed Ethemet Switch			
		sysDescr.0 sysDescr.0	1.3.6.1.2.1.1.1.0		1		
	sysContact	sysDescr.0 sysObjectID.0	1.3.6.1.2.1.1.1.0	Industrial Managed Ethemet Switch 1.3.6.1.4.1.24062.2.2.1	-		
	sysName	sysUpTime.0	1.3.6.1.2.1.1.3.0	2 days 18:37:37.16			
	sysLocation	sysContact.0	1.3.6.1.2.1.1.4.0	2 Gays, 10.37.37.10	-		
	sysServices	sysContacco sysName.0	1.3.6.1.2.1.1.5.0	Switch	-		
	sysORLastCha	sysLocation.0	1.3.6.1.2.1.1.6.0	11			
	B sysORTable	sysServices.0	1.3.6.1.2.1.1.7.0	2			
	interfaces	sysORLastCha.		2 2 days, 18:37:37.19	4		
	🗄 at 🗸 🗸	sysORID.1	1.3.6.1.2.1.1.9.1.2.1	1361631			
<	>	sysORID.1	1.3.6.1.2.1.1.9.1.2.2	13512149	4		
		sysORID.3	1.3.6.1.2.1.1.9.1.2.3	1.3.6.1.2.1.4			
Attribute	Message	sysORID.4	1.3.6.1.2.1.1.9.1.2.4	1361219	1		
Object		sysORID.5	1.3.6.1.2.1.1.9.1.2.5	13616316221	H		
Name	sysDescr	sysORID.6	1.3.6.1.2.1.1.9.1.2.6	13616310311	1		
Object ID	1.3.6.1.2.1.1.1.0	sysORID.7	1.3.6.1.2.1.1.9.1.2.7	13616311311			
Status	mandatory	sysORID.8	1.3.6.1.2.1.1.9.1.2.8	1.3.8.1.6.3.15.2.1.1	1		
Access	read-only	sys0RDescr.1	1.3.6.1.2.1.1.9.1.3.1	The MIB module for SNMPv2 entities	1		
Syntax	DisplayString (SIZE (0.256))	sysORDescr.2	1.3.6.1.2.1.1.9.1.3.2	The MIB module for managing TCP implementations	1		
	"A textual description of the entity	sysORDescr.2	1.3.6.1.2.1.1.9.1.3.3	The MIB module for managing I/Or implementations	đ		
	lude the full name and version ide	sys0RDescr.4	1.3.6.1.2.1.1.9.1.3.4	The MIB module for managing UDP implementations	1		
	em's hardware type, software ope	sysORDescr.5	1.3.6.1.2.1.1.9.1.3.5	View-based Access Control Model for SNMP.	1		
	etworking software. It is mandator 🗸	sysORDescr.6		The SNMP Management Architecture MIB.	đ		

Figure 4–8. Example of Reading a MIB

- Scan Network, find out specified IP range assigned
- Fast Scan, find out all switch devices by the View protocol
- **Preferences** please refer to section 9 for more information
- Zoom, zoom in and out the device icons, texts and others only on the Topology tab

🔍 Find 📝 Edit Mode) 🚳 Web Browser 🤤 SNMP Browser 🖷 Scan Network 🗧 Fast Scan 🛛 🎡 Preferences Zoom 50 🗘	🔍 Find	🥜 Edit Mode	🚱 Web Browser	🧼 SNMP Browser	똌 Scan Network	Fast Scan	🔅 Preferences	Zoom 50 🗘
---	--------	-------------	---------------	----------------	----------------	-----------	---------------	-----------

Figure 4–9. Toolbar Function

Map Tree

Click on the tree node to select the device on the *Topology* tab.

	192.168.10.251 192.168.10.2 192.168.10.202
-	192.168.10.1 192.168.10.1
-	192.168.10.3
	192.168.10.103

Figure 4–10. Map Tree

Topology Tab

This page displays the icons for monitored devices.



Figure 4–11. Topology in JetView Pro

All Devices Tab

This page displays the icons for monitored devices (as *Topology* tab)

No.	Model	Mac Address	IP Address	Network	Version	Status
1	JetNet4508	00:12:77:01:03:86	192.168.10.251	255.255.255.0	√2.10	
1	etNet5010G	00:12:77:60:14:60	192.168.10.202	255.255.255.0	v2.2.2 (b1.6.2.12)	
1	letNet4508f	00:12:77:01:1B:0B	192.168.10.1	255.255.255.0	v2.10	
1	JetNet4508	00:12:77:01:12:78	192.168.10.1	255.255.255.0	v2.6	
1	letNet4508f	00:12:77:01:02:B3	192.168.10.3	255.255.255.0	v2.12	
5	JetNet4008	00:12:77:01:06:76	192.168.10.103	255.255.255.0	v2.6	
7 3	etNet54283	00:12:77:FF:02:C3	192.168.10.2	255.255.255.0	√0.0.30 (N/A)	

Figure 4–12. All Devices Tab in JetView Pro

Event Management Tab

The event displays on the Event Management tab page while the event happens.

ID	Ack	Type	Category	Receive Time	Source	Component	Mennge
4		0	Application Info	2009-08-28 15:15:57	JefView Pro Service	Remote Access	Authentication is current in Edit mode. From:/192.168.10.80
3		0	Application Info	2009-08-28 15:14:21	JefView Pro Service	Remote Access	Authentication is access in Monitor mode, From/192.168.10.80
2			Application Info	2009-08-28 15:14:16	JefView Pro Service	License	Liseuse file: is not exist!
1		0	Application Info	2009-08-28 15:14:16	JefView Pro Service		JetView Pro Started
	0		- A fraction of the second				

Figure 4–13. Event Management

SNMP Trap Receiver Tab

The SNMP trap displays on the SNMP Trap Receiver tab page while the trap happens. The SNMP Trap Receiver support SNMP v1/v2c traps receiving.

Event Ma	negement SNMP Trap Re	eceiver				Agent IP Address:	All Trops	▼ Filter D Stee	1 🗌 🖓 🖓 🖓
ID	Agent address@ort	Transport	Protocol	Timestamp	Enterprise	Community		Eintings	
۲.									>

Figure 4–14. SNMP Trap Receiver Tab

5.Device Discovery

To see the installed devices on the Topology tab or the All Devices tab, you have to add devices. How to do add devices and delete devices? How to quickly update the installed devices? This section gives answers to all the above questions.

Add Devices

Fast Scan

This function is to discovery devices using the View protocol in the local network. JetView Pro discovers all network devices on the subnet network via the selected interface on the PC. This function adapts to setup a newly installed network.

To update installed network components (or devices), click on *Fast Scan* on the toolbar and select one of your NIC which connect to network devices.

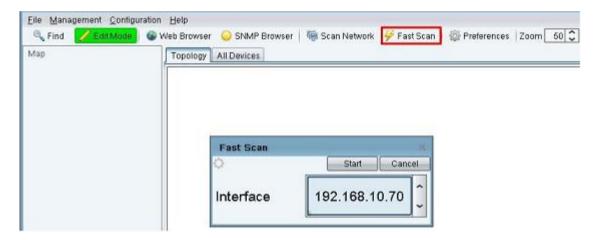


Figure 5–1. Fast Scan Option

It displays all Connect devices in the network on the Topology tab.



Figure 5–2. Topology Tab

Scan Network

This function is to discovery devices via the assigned IP address range. While you want to add the specified IP-enabled device, this function is suitable.

Scan Network	
Scan Range	
Start Address:	
End Address:	
Ok Ce	uncel

Figure 5–3. Scan Address Range

Note:

The End Address should great or equal then Start Address.

Delete Devices

You can delete any device on Topology tab. Use the mouse to select multiple devices by CTRL key and right-click the selected device. Then display a pop-up menu and click on *Delete* menu item.

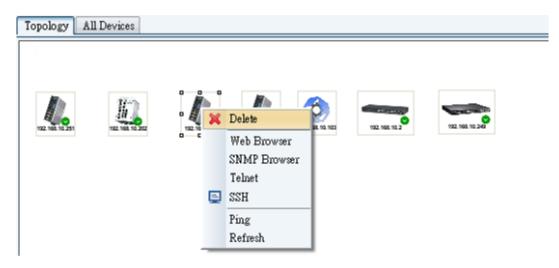


Figure 5–4. Deleting a Device from Topology Tab

6.Topology Map

Device Information

Device Status

Move mouse cursor over the switch device icon on Topology tab. It will show the following status for the device.

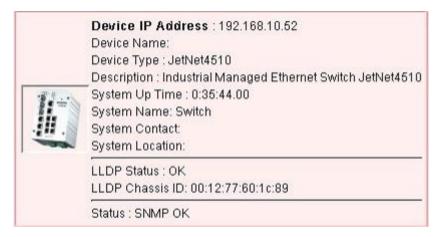


Figure 6–1. Device Status

The device (IP address: 192.168.10.1) lists in left tree panel with a status icon use to show its online/offline status. Green means online, while white means offline. The device icon on Topology tab also shows its status in the background. If the color is red, which indicates an error status (hint: the detail is in Event management tab). In other words, JetView Pro sends ICMP Ping request and then receives incorrect response (unreachable).

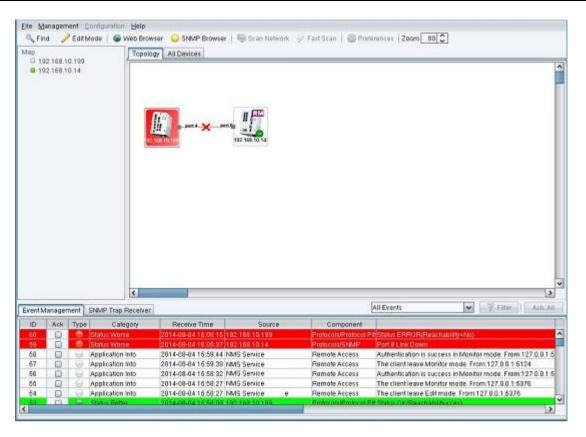


Figure 6–2. Connecting to Device

There is a green check indicates the normal status for SNMP.

Device Refresh

To update the device status, select one more device (especially on error status) and right-click mouse on the selected device. Then pop up as follows:



Figure 6–3. Device Refreshing List

Deleting Devices

To remove the device nodes, select one or one more devices and right-click mouse on the selected device. Then pop up as follows:



Figure 6–4. Deleting Selected Device

Managing Devices

To manage the devices, select one device and right-click mouse on the selected device. It will pop up a dialog as follows. Choose to use Web Browser, SNMP Browser, Telnet, SSH, or Ping to manage the device.



Figure 6–5. Options for Device Management

Auto Topology

The *Auto Topology* function allows you to automatically create the links (connections) between the devices (nodes). To support this function, the devices must support with LLDP and SNMP. LLDP enables the user to have automatic topology recognition for his LAN. Therefore the devices support for LLDP and SNMP and have to be configured to ready state.

Enable LLDP

To let *Auto Topology* working, each device MUST enable LLDP function on installed network devices. You can use Web browser to confirm whether LLDP is enabled.

- 1. Use mouse to select one device on the Topology tab which you want to enable as LLDP
- 2. Mouse right-click on the selected device and click on the Web Browser menu-item of pop-up menu

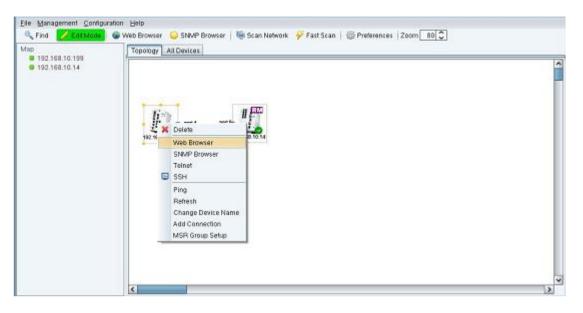


Figure 6-6. Step 2 to Enable LLDP

3. When the login screen appears, login with the user name and password (default Username and Password is admin/admin).

🔏 JetNet SwitchManag	ger - Windows Internet Explorer	_ 🗆 🗙
🔄 🗢 🖉 http://	/192.168.10.1/mdex.html 💉 🗲 🔀 🐚 Bing	P-9
🚖 🏉 JetNet Switch	Manager	
		<u>^</u>
	Switch Manager	
	Please enter user name and password.	
	Site: 192.168.10.1	
	User Name: admin	
	Password:	
	OK Cancel	
		~
		• 🔍 100% 🔹 🛒

Figure 6–7. Step 3 to Enable LLDP

4. Click on the tree node *Topology Discovery*.

Basic Setting Port Configuration Network Redundancy VLAN Multicast Filtering Nulticast Filtering SNMP Security	LLDP ti	Disa Configuration mer [old time [ble 🔻		
←	LLDP	Port State			
MAC Address Table	Local Port	Neighbor ID	Neighbor IP	Neighbor VID	
 Port Statistics Port Mirroring Event Log Topology Discovery Ping Device Front Panel Save Logout 					
	Аррђ	1			

Figure 6–8. Step 4 to Enable LLDP

5. Confirm whether LLDP is enabled. If it is disabled, please set Enable and press *Apply*. You can manual set the timers of LLDP. The range of LLDP timer is 5~254 and LLDP hold time is 10~255.

🗂 JetNet5628G – 🗋 System	Торо	logy Discov	ery		
►	LLDP	Ena	ible 🔻		
C Network Redundancy	LLDP	Configuration			
Traffic Prioritization	LLDP	timer	30		
≻ 📑 Multicast Filtering ≻ 📑 SNMP	LLDP	hold time	120		
- 📑 Security					
⊢ 📑 Warning ⊢ 📑 Monitor and Diag	LLDP	Port State			
— MAC Address Table — Port Statistics	Local Port	Neighbor ID	Neighbor IP	Neighbor VID	
— 🗋 Port Mirroring	fa9	00:12:77:ff:02:c3	192.168.10.10	1	
– 🗋 Event Log	fa13	00:12:77:60:14:60	192.168.10.20	1	
Topology Discovery Ping Device Front Panel Save Logout	App				

Figure 6–9. Step 5 to Enable LLDP

Generate Connections

Generate connections between the devices.

- 1. Check every device's icon that each one has a green check \bigcirc on it. Device icon without check icon can't access by SNMP.
- 2. Mouse right-click on the *Topology* tab and click on *Auto Topology* on pop-up menu. It will display as follows:

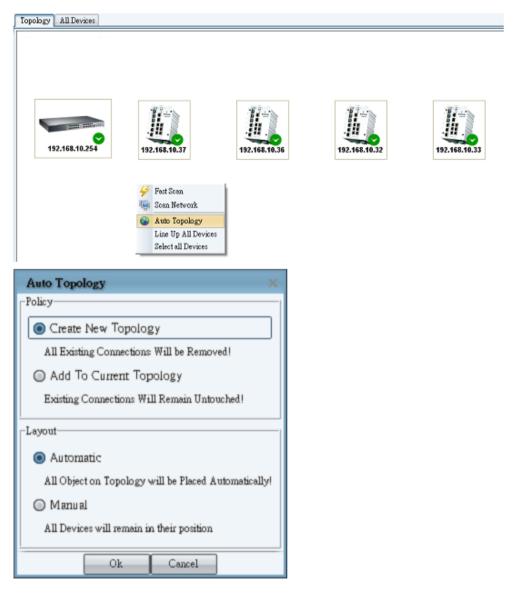


Figure 6–10. Auto Topology Configuration

3. Press *OK* to display the following of screen.

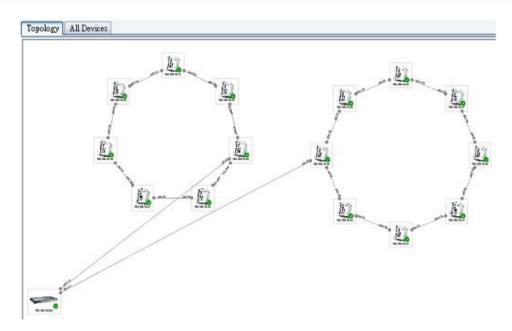


Figure 6–11. Auto Topology Map

Auto Topology Check List:

Yes / No	Requirement
?	Does every device enable SNMP?
?	Does any device not using default SNMP community? (Public, private)
?	Does every device's icon show green?
?	Does every device enable LLDP?
?	If the device show red (not reachable), after you fix the problem, did you refresh the device?

Note:

The L3 interface (IP interface) may not be displayed correctly in the version of JetView Pro v1.6.x.

Manual Add Connection and Delete

Manual Add Connection

Select two switch icons and mouse right-click to show popup menu.

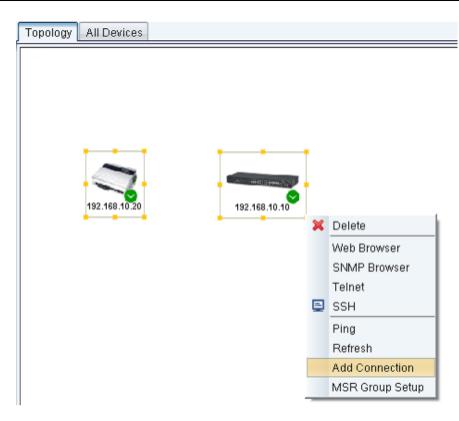


Figure 6–12. Adding a Connection Manually

Click on *Add Connection* menu item of the pop menu. It will show this Add Connection dialog. Enter two port number connected between two switches and press *OK*.

Add Connection	
IP Address	Port No.
192.168.10.20	1
192.168.10.10	3
ок	Cancel

Figure 6–13. Add Connection Parameters

The screen will display that there is a connection between two switches.

Topology	All Devices			
		1 port.3	and the second	
	192.168.10.20	192.1	68.10.10	

Figure 6–14. Connection Established Manually

Manual Delete Connection

Select the connection between 192.168.10.20 and 192.168.10.10 by Mouse-Click.

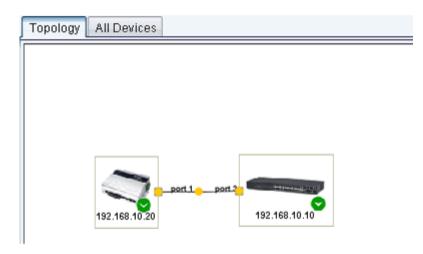


Figure 6–15. Deleting Connection Manually Step 1

Mouse Right-Click the connection and pop up *Delete* menu-item of pop-up menu.

Topology	All Devices				
		[
	402 409 40 20	port 1 port 3	192.168.10.10	5	
	192.168.10.20		132.166.10.10		

Figure 6–16. Deleting Connection Manually Step 2

Click *Delete* to delete the connection.

Topology All Devices			
	1		
		- Homesey	
192.168.10.20	,	192.168.10.10	

Figure 6–17. Deleting Connection Manually Step 3

Save Topology Map

To present to *Topology Map*, you could need to get topology map.

Save Topology Map as File

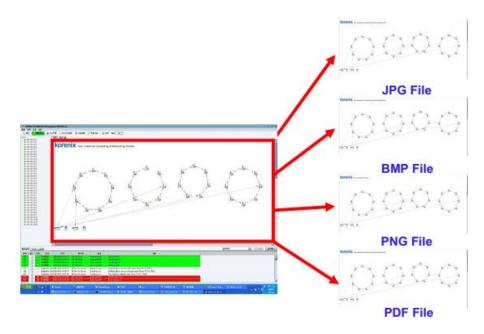


Figure 6–18. Saving Topology Map as File

These two methods can help you save currently displayed map in the Topology Map to file.

1. Image format file (BMP, JPEG, PNG). Click on *File / Export*, choose *File of Type* to use BMP, JPEG, PNG image format, Input File Name and press *Save* to save the file.

Save
Save In: 🙆 My Documents
📸 My Music 🕘 My Pictures
🕮 My Videos
🔂 shortcut - Work
Cource Insight
File <u>N</u> ame:
Files of Type: (*.png)
Save Cancel

Figure 6–19. Save Topology as File Options

2. PDF file. Click on *File / Print*. Input File Name and press *Save* to save the file.

Save ×
Save In: 🕒 My Documents 💽 💽 🔲
eẩ My Music @ My Pictures My Videos
💼 shortcut - Work
File Name:
Files of Type: (*.pdf)
Save

Figure 6–20. Save Topology as PDF

A PDF file will be generated. You can print it with the print function of your PDF viewer.

Save Topology Map as Database File (*.JVP)

To record current displayed map in the *Topology Map*, use this map again. First, you need to save Topology Map as database file.

Click on File / Save. Input File Name and press Save to save the file. (ex. demo.JVP)

Save	×
Save In: 📋 My Documents	
File Name:	
Files of Type: *.jvp (NMS Project)	~
	Save Cancel

Figure 6-21. Save Topology as JVP

To restore previous saved Topology Map, you click on File / Open.

Set File Name (ex. demo.JVP) and press *Open* to restore previous saved Topology Map.

Open	
Look In: 🕒 My Documents 🔹 💽 💽	
File Name:	
Files of Type: *.jvp (NMS Project)	~
Open Cancel	

Figure 6–22. Opening Previous Saved File

Note:

This function only available on server. Remote client can't backup/restore database due to security precautions.

7. Device Configuration

This section explains the device configuration on the *All Devices* Tab. One switch device can be configured by one mouse selection. Group devices can also be configured by many selections at a time.

The methods of mouse selection can be single selected any rows by CTRL + mouse click or continuously selected by first mouse click and then SHIFT + mouse click. Remember that first mouse select the switch devices to configure before the following of device configurations.

After having one more devices selections, show pop-up menu by mouse right-click.

1	7.07.165000	Mac Address	IP Address	Netmask Version		1	Status	
	JetNet4508f	00:12:77:01:02:B3	192.168.10.3	255.255.255.0		v2.12		
	JetNet5428G	00:12:77:FF:02:C3	192.168.10.2	255.255.255.0		√0.0.30 (N/A)		
3	JetNet5010G	00:12:77:60:14:60	192.168.10.202	255.255.255.		Change IP		
4	JetNet4508	00:12:77:01:12:78	192.168.10.1	255.255.255.				
5	JetNet4508f	00:12:77:01:1B:0B	192.168.10.1	255.255.255.		Firmware Upgrade		
6	JetNet4008	00:12:77:01:06:76	192.168.10.103	255.255.255.		Boot Loader Upgrade		
7	JetNet4508	00:12:77:01:03:86	192.168.10.251	255.255.255.		Configuration File >		
						Telnet SSH Ping		
						LED Signal		
						Load Factory Default		
						Reboot Device		

Figure 7–1. Device Options

Note:

Before using pop-up menu functions, remember to select the target device (mouse selection) that should be configured.

Global Settings

Change IP

You can assign the new IP address to the switch devices.

LED Signal

This function is convenient for searching the switch device. While this function is enabled, the light of the LED on the switch device constantly twinkles.

Load Factory Default

You can reset all the configurations of the switch to default setting.

Reboot Device

Some of the feature change to require you rebooting the system. Click on *Reboot Device* on popmenu to reboot your device.

MSR Group Setup

To let *Auto Topology* to generate Ring Topology, devices in the install ring network have to setup Multiple Super Ring (MSR) function.

- 1. Use mouse right click to select multiple devices on the Topology tab by CTRL key which you want to setup MSR function.
- 2. Mouse right-click on the selected device and click on the MSR Group Setup menu-item of popup menu.

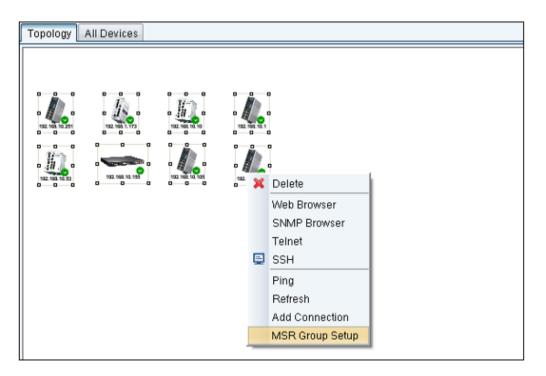


Figure 7–2. MSR Group Setup

3. It will show MSR Group Setup window. Set Ring ID (0~31), Ring Name, Ring Version, Ring Port1 and Ring Port2 for MSR setup. Then press *Check* button

MSR Group Setup						x
Ring ID	1			Chec	k	
Ring Name	aa1			App		
Ring Version	Rapid Su	per Ring	~	Expor		
Ring Port1	1		~	Save to I	lash	
Ring Port2	2		~	Canc	el	
Device	Snmp	Ring ID	Ring Port1	Ring Port2	Status	Setup result
						*

Figure 7–3. Options for MSR Groups Setup

- 4. It will show check status of selected device in the bottom of MSR Group Setup window. The columns in the table explain as follow:
 - o Device: IP address
 - SNMP: Connect via SNMP is available
 - Ring ID: whether Ring ID is used or exceeds the ring number limit
 - Ring Port1: whether Ring Port1 is enabled or exceed the port number limit for device
 - Ring Port2: whether Ring Port2 is enabled or exceed the port number limit for device
 - Status: the device status based on the status of SNMP, RingID, Ring Port1, Ring Port2
 - Setup result: response this column after pressing Apply button

SR Group Setu	p						
Ring ID	1			Chec	k		
Ring Name	aa1			App			
Ring Version	Rapid St	uper Ring	v	Expor	t >		
Ring Port1	1 v 2 v			Save to F	lash		
Ring Port2				Canc	el		
						1	
Device	Snmp	Ring ID	Ring Port1	Ring Port2	Status	Setup result	Γ
	Snmp Available	Ring ID Available	Ring Port1 Enabled	Ring Port2 Enabled	Status Available	Setup result Success	
192.168.10.251 192.168.10.10	Available	Available	Enabled	Enabled	Available	Success	
192.168.10.251 192.168.10.10	Available Available	Available Available	Enabled Enabled	Enabled Enabled	Available Available	Success Success	
192.168.10.251 192.168.10.10 192.168.10.105	Available Available Available	Available Available Available	Enabled Enabled Enabled	Enabled Enabled Enabled	Available Available Available	Success Success Success	-
192.168.10.251 192.168.10.10 192.168.10.105 192.168.10.1	Available Available Available Available	Available Available Available Available	Enabled Enabled Enabled Enabled	Enabled Enabled Enabled Enabled	Available Available Available Available	Success Success Success Success	

Figure 7–4. Options for MSR Groups Setup for Selected Devices

- 5. To indicate that there is at least one of device in the unavailable status if the *Apply* is disabled. Press Check button again after solving the problem for unavailable devices. If all the selected devices are in the available status, the Apply button will enable. Then press Apply button to setup MSR setting for all selected devices. Final, the setup result will show the last column in the table.
- 6. If you want to use these settings for rebooted devices, you MUST press *Save to Flash* button to save these settings into flash for each devices.

Firmware Upgrade

In this section, you can update the latest firmware for your switch.. The new firmware may include new features, bug fixes or other software changes. We'll also provide the release notes for the update as well. For technical viewpoint, we suggest you use the latest firmware before installing the switch to the customer site.

The UI also shows you the version and built date of current firmware. Please check the version number after the switch is rebooted.

Note:

The system will be automatically rebooted after you finished upgrading new firmware/bootloader. Please remind the attached users before you do this.

Configure File Operation

The configuration file of the switch is a pure text file. You can open it by word/txt read file. You can also modify the file, add/remove the configuration settings, and then restore back to the switch.

Backup

With Backup function, you can save current configuration file saved in the switch's flash

Restore

This will allow you to go to Restore function later to restore the configuration file back to the switch.

Load default

All of the configurations will be rollback to the factory default settings, except the device IP address.

Manage by Application

Web browser

For managing Ethernet switch devices, you need to consider that they have Web management function. Web management page is developed by JAVA. It allows you to use a standard Webbrowser such as Microsoft Internet Explorer, or Mozilla, to configure and interrogate the switch from anywhere on the network.

- 1. Use mouse to select one device on the Topology tab which you want to configure
- 2. Mouse right-click the selected device and click on the Web Browser menu-item of pop-up menu
- 3. The login screen will appear next
- 4. Key in *user name* and the *password*. Default user name and password are both admin.

Please enter Site:	user name and password. 192.168.10.8
User Name: Password:	admin
	OK Cancel

Figure 7–5. Welcome Page of the Web-Based Management Interface

5. Press ENTER or click on *OK*. Welcome page of the Web-based management interface will then appear.

- System	Velcome to the ndustrial Mana	-
 Network Redundancy 	System Name	
← 🚍 VLAN ← 🗔 Traffic Prioritization	System Location	
🕶 🚍 Multicast Filtering	System Contact	
← CII SNMP ← CII Security ← CII Warning	System OID	1.3.6.1.2.24062.2.1.3
	System Description	Industrial Managed Switch
- C Monitor and Diag	Firmware Version	v1.2 20070620
 Device Front Panel 	Device MAC	00:12:77:ff:00:00
- 🗋 Save - 🗋 Logout		

Figure 7–6. Configurations of Industrial Managed Switch

6. Once you enter the Web-based management interface, you can freely change the IP address to fit your network environment.

SNMP Browser

JetView Pro provides a SNMP browser for user to management SNMP devices. The SNMP Browser supports SNMP v1/v2c/v3 get, get next, walk, table view and set functions. And the SNMP Browser provides MIB file compiler tool *MIB File Manager* that can load public standard MIBs and private MIBs and build a MIB tree.

Provides many standard MIBs for users to configure or monitor the switch's configuration by SNMP. But, since some commands can't be found in standard MIB, JetView Pro provides Private MIB to meet up the need. Compile the private MIB file by you

Private MIB tree is the same as the Web tree. This is easier to understand and use. If you are not familiar with standard MIB, you can directly use private MIB to manage /monitor the switch, no need to learn or find where the OIDs of the commands are.

The SNMP Browser tool lets you read and write the MIB of the selected device.

	V Q 30= =0	1	1.1		
	V 🔍 34- 14	IP Add	ress:	192.168.0.199 🛩	SNMP Agent Profile
⊖ id	dentified-organization	Cobject	in f	1.3.6.1.2.1.1.1.0	
8	dod	Coluct	1		and the second sec
	internet	G	et	Get Next Wal	k Table View Stop
	e mgmt			-	1 [
	🖯 mib-2	SetVa	lue		Set
	🕀 system		erect 1		Clea
	sysDescr	List	Table	11	olea
	sysObjectID	N	lame	Object ID	Value
	sysUpTime	sysDes	cr.0	1.3.6.1.2.1.1.1.0	Industrial Managed Ethernet Switch
	sysContact	sysDes	cr.0	1.3.6.1.2.1.1.1.0	Industrial Managed Ethernet Switch
	sysName	sysObj	ectID.0	1.3.6.1.2.1.1.2.0	1.3.5.1.4.1.24062.2.2.1
	sysLocation	sysUpT	Time.0	1.3.6.1.2.1.1.3.0	2 days, 16:37:37.16
	sys5ervices	sysCor	itact O	1.3.6.1.2.1.1.4.0	
	sysORLastCh	sysNar	ne.0	1.3.6.1.2.1.1.5.0	Switch
	sysORTable	sysLoc	ation.0	1.3.6.1.2.1.1.6.0	11
	interfaces	sysSen	vices.0	1.3.6.1.2.1.1.7.0	2
	🗇 at	 sysORI 	LastCha	1.3.6.1.2.1.1.8.0	2 days, 16:37:37.19
1		sysORI	D.1	1.3.6.1.2.1.1.9.1.2.1	1.3.6.1.6.3.1
		sysORI		1.3.6.1.2.1.1.9.1.2.2	1.3.6.1.2.1.49
Attribute	Message	sysORI		1.3.6.1.2.1.1.9.1.2.3	1.3.6.1.2.1.4
Object		sysORJ		1.3.6.1.2.1.1.9.1.2.4	1.3.6.1.2.1.50
	sysDescr	sysOFU		1.3.6.1.2.1.1.9.1.2.5	1.3.6.1.6.3.16.2.2.1
lame	1.3.6.1.2.1.1.0	syson		1.3.6.1.2.1.1.9.1.2.6	1.3.6.1.6.3.10.3.1.1
bject ID Status	mandatory	sysORI		1.3.6.1.2.1.1.9.1.2.7	1.3.6.1.6.3.11.3.1.1
Access	read-only	sysORI		1.3.6.1.2.1.1.9.1.2.8	1.3.6.1.6.3.15.2.1.1
	DisplayString (SIZE (0.255))	and the second sec	Descr.1	1.3.6.1.2.1.1.9.1.3.1	The MIB module for SNMPv2 entities
yntax	*A textual description of the entity.		Descr.2	1.3.6.1.2.1.1.9.1.3.2	The MIB module for managing TCP implementations
	lude the full name and version ide		Descr.3	1.3.6.1.2.1.1.9.1.3.3	The MIB module for managing IP and ICMP implementations
	em's hardware type, software ope	C. Burkenser	Descr.4	1.3.6.1.2.1.1.9.1.3.4	The MIB module for managing UDP implementations
	etworking software. It is mandator	The second second	Descr.6	1.3.6.1.2.1.1.9.1.3.6	View-based Access Control Model for SNMP.
	a statistic and a statistic to the statistic date	*HillsysOBI	Descr.6	13612119136	The SNMP Management Architecture MI8.

Figure 7–7. MIB Example Compiler

The MIB Compiler assists user in building MIB tree. While MIB files have been changed, user uses the MIB Compiler to rebuild MIB tree. To add new MIB into MIB Tree, *go File* > *MIB Manager*. It will show the following window.

Available MIBs		Loaded MIBs		
MIB Name	Path	MIB Name	Path	5.0
		RFC1213	C:\Program FilesNMS\mibs\RFC12.	1
		RFC1229	C:IProgram FilesNMSImibsIRFC12.	
		RFC1231	C:IProgram FilesNMSImibs\RFC12.	
		RFC1243	C:/Program FilesNMS/mibs/RFC12.	
		RFC1253	C:/Program FilesNMS/mibs/RFC12.	
		RFC1271	C:\Program FilesNMS\mibs\RFC12.	
		RFC1285	C:\Program FilesNMS\mibs\RFC12.	
		RFC1315	C:Program FilesNMSImibs\RFC13	
		RFC1381	C:/Program FilesNMS/mibs/RFC13.	
		RFC1382	C:/Program Files/NMSImibs/RFC13.	-
		RFC1398	C:/Program FilesNMS/mibs/RFC13.	
		RFC1406	C:/Program FilesNMS/mibs/RFC14.	
		SNMPv2-MIB	C:\Program FilesNMS\mibs\SNMPv	
		jetnet-trap	C:Program FilesNMSImibsljetnet-tr	
		jetnet4506rj	C:Program FilesNMS\mibs\jetnet4.	
		jetnet4506m12	C:/Program Files/MS/mibsljetnet4.	
		jetnet4006	C/Program FilesNMSImibsljetnet4.	
		jetnet4006f	C:/Program Files/MS/mibs/jetnet4_	
		jetnet4706	C:/Program FilesNMS/mibs/jetnet4_	
(> <		>
Add MIB from file Rem	tove Load > Lo	ad all >> 🔤 🗸 Unload	< Unload all	
			Rebuild MIB Tree	se

Figure 7-8. Adding a MIB

Press Add MIB from file to add new MIB file. Load this new MIB file and then press Rebuild MIB Tree to update MIB Tree.

Eile Edit				
MIB Tree		68.0.199 😽 SMMP Agent i	Profile	
🖯 root	Object ID: 1.0.8	802.1.1.2.*		
ccitt	Get Get	Next Walk Table V	tew Stop	
🖯 iso		T		
standard	SetValue:		Set	
registration-authority member-body	List Table			Clear
identified-organization	Name	ObjectID	Value	
B std				8.
iso8802				
ieee802dot1				
😑 leee802dot1mibs				
IldpMIB IldpNotifications				
IldpObjects IldpConformanc joinf-ccitt-iso				
< .				
Attribute Message				
Object				
Name IIdpMIB				
ObjectID .1.0.8802.1.1.2.*				
Status				
Access				
Syntax "Management Information Base r Iguration, statistics, local system (erns data components, Copyright s version of this MIB module is pu				
< >				

Figure 7–9. Loaded MIB

Telnet

Connect's network devices support Telnet console. You can connect to the switch by

Telnet, the command lines are the same as what you see by RS232 console port. You can use CLI command to configure your device.

Telast 192.168.10.202
Switch login: admin Password:
JetNet5010G (version 2.1.22-20081120-18:58:31). Copyright 2006-2008 Korenix Technology Co., Ltd.
Switch>

Figure 7–10. Telnet Command Line

SSH (Secure Shell)

Connect's network devices also support SSH console. You can remotely connect to the switch by command line interface. The SSH connection can secure all the configuration commands you sent to the switch.

SSH is a client/server architecture where network devices are considered as the SSH server. When you want to make SSH connection with the switch, you should download the SSH client tool first.

Ping

This ping function can confirm your host access to Connect's network devices via network. Ping the selected device to verify a normal response time.

Change Device Name

You can give device an alias for a device by Change Device Name function.

Device IP Addre	ss: 192.168.10.52
Device Name:	AnotherName

Figure 7–11. Changing Device Name

	Device IP Address : 192.168.10.52
	Device Name: AnotherName
	Device Type : JetNet4510
	Description : Industrial Managed Ethernet Switch JetNet451
·#	System Up Time : 0:59:14.05
11-	System Name: Switch
	System Contact:
	System Location:
	LLDP Status : OK
	LLDP Chassis ID: 00:12:77:60:1c:89
	Status : SNMP OK

Figure 7–12. Applied Device Name Change

8. Event and Alarm Management

Event Management

Administers can identify the event threshold (OK, Warning, Error, No Status) by the color. Notifications based on any event (Node up, Node down, Link up, Link down, Remote Access Client mode, etc.) can be generated. Besides, notifications can be sent via email, SNMP trap and this JetView Pro program. For the event settings refer to section 9.1.

In the case of red background icon on Topology tab, relevant fields in the event line of Event Management tab are colored as red (see Figure 8–1). According to the event message, users can identify what occurs to the devices with red background.

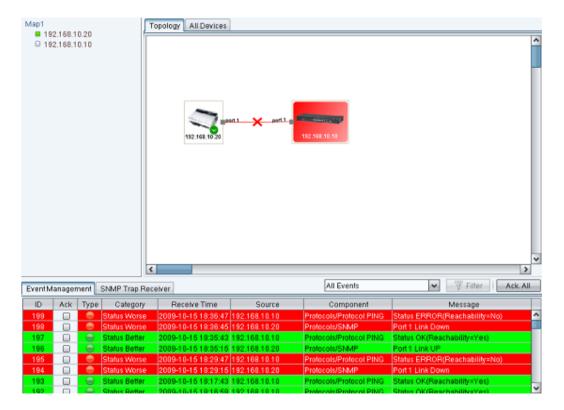


Figure 8–1. Event Management Example

Ack This column is to check the status of each event and confirm these events for network manager. After checking Ack, the corresponding links or device icons in the topology are restored to the normal color. This is also to recognize updated status in the topology.

Use mouse to click checkbox to check.

ID	Ack	Type	Category	Receive Time	Source	Component	Managa
4		0	Application Info	2009-08-28 15:15:57	JetView Pro Service	Remote Access	Authentication is success in Edit mode. From /192 168.10.80
3	Application Info 2009-08-28 15:14:21 deView Pro Service Remote Access Authentication is success in Monitor mode, Prom/192.168.10.80						
2		0	Application Info	2009-08-28 15:14:16	JetView Pro Service	Linease	License file: is not exist!
1		0	Application Info	2009-08-28 15:14:16	JetView Pro Service		JefView Pap Storted

Figure 8–2. Selecting Devices to Ack

Ack for the green link, for example.

Elle M		ent j	Configuration	on Help Web Brow	ser 🔒 SNWP Browser	Scan Network	🖗 Fast Scan 🕴 🍈 Prete	vences Zoom 80	1	
Map II 19	12.168.1	0.199		Topolo 192		192 102 TO 14	Fran Juli			
				<	1					>
EventM	lanager	ment	SNMP Tra	p Receiver				All Events	Y FEL	Ack All
ID	Ack	Туре	C	degory	Receive Time	Source	Component			
46	D	÷	Status Ba	the	2014-08-04 16:51:37 1	192.168.10.14	Protocols/SNMP	Port 8 Link UP		0
45	D	9	Applicatio		2014-08-04 16:51:16 K		EventManagement	SMTP Serveris discon		
44	0		Status We		2014-08-04 15:51:15 1			InStatus ERROR/Reach		
43	0	1	Applicatio		2014-08-04 15:50:38 k		EventManagement	SMTP Serveris discon	heat	
42			Status We Etatus Be		2014-08-04 16:50:37 1 2014-08-04 16:50:04 1		Protocols/SNMP	Port B Link Down I Status OK/Reachability	Contraction of the Contraction o	
40	ø	0	Status Be		2014-08-04 15:49:37 1		Protocols/SNMP	Port 8 Link UP	1-1-0-3V	
30	D	100	AnnEcatio		2014-08-04 15:49:18 8			SMTP Severis discon	nert.	U
<										>

Figure 8–3. Event Management, Ack

While you check this Ack of ID 46 and 47, the link color will restore from green to gray.

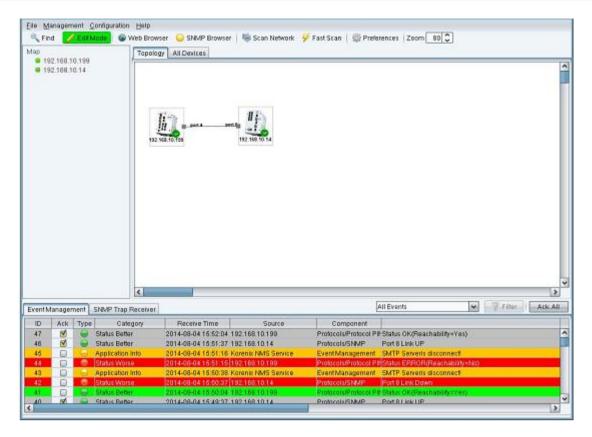


Figure 8-4. Event Filter for Ack

Event Filter You can choose to use *All Events, Unacknowledged Events, Warnings & Errors, Warnings, Errors, Unacknowledged Warnings & Errors and Source*=, so that show the event status you want to see. While choosing *Source* =, you must append the IP address (ex, 192.168.10.1) behind the *Source* = string and press Filter button to filter the events matched by Source column,

All Events 🗸 🗸
All Events
Unacknowledged Events
Warnings & Errors
Warnings
Errors
Unacknowledged Warnings & Err
Source =

Figure 8–5. Filters

Link up/down Events

While the link failure happens, JetView Pro will issue a Link Down event in Event

Management tab page and update the Topology Map Figure 8–6. This event will show *Port1 Link Down* Message.

	2.168.11			opology <u>All Devices</u> 152.168.10.20	sti 1 🗶 port 1 g	192.168.10.10		
EventMa	-	unt i	SNMP Trap Rece	aktor		All Events	V Filter Ack	All
ID	Ack	_		Receive Time	Course	Component		
199		Type	Category Status Worse	2009-10-15 18:36:47	Source	Component Protocols/Protocol PING	Message Status ERROR(Reachability=No)	^
198	Ť.	ŏ	Status Worse	2009-10-15 18:38:45		Protocols/SNMP	Port 1 Link Down	
197	ŏ		Status Better	2009-10-15 18:35:43		Protocols/Protocol PING	Status OK(Reachability=Yes)	
196	Ō		Status Better	2009-10-15 18:35:15		Protocols/SNMP	Port 1 Link UP	
195		۲	Status Worse	2009-10-15 18:29:47	192.168.10.10	Protocols/Protocol PING	Status ERROR(Reachability=No)	
194		۲	Status Worse	2009-10-15 18:29:15	192.168.10.20	Protocols/SNMP	Port 1 Link Down	
193			Status Better	2009-10-15 18:17:43		Protocols/Protocol PING	Status OK(Reachability=Yes)	~
192			Status Reffer	2009-10-15 18:16:58	1921681010	Protocols/Protocol PING	Status OK(Reachability=Yes)	~

Figure 8–6. Link Down Event

While the link restores, JetView Pro will issue a Link Up event in Event Management tab page and update the Topology Map Figure 8–7. This event will show *Port1 Link UP* Message.

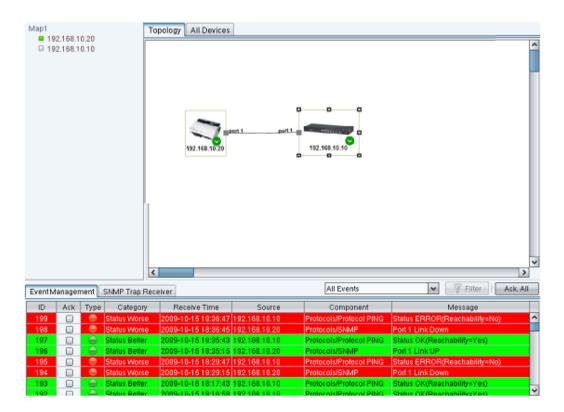


Figure 8–7. Link Up Event

Node up/down Events

While the node failure happens, JetView Pro will issue a Node down event in Event Management tab page and update the Topology Map Figure 8–8. This event will show *Status ERROR(Reachability=No)* Message.

	12.168.1			Topolog	Y All Devices	e Gan Network			
rently	lanager	nent	SNMP Trap R	< Necessary				All Events	Fitter Ack A
vent W	lanager Ack		SNMP Trap P	lecelver	Receive Time	Source	Component	All Events	
CARGO	-	Type	SNMP Trap P	aceiver Jory	Receive Time 2014-08-04-16:06:15			All Events	V Fitter I Ack A
D	Ack		SNMP Trap R	tecelver tory	and a second second second second	19216810199			V Fitter Ack /
D 0 9	Ack		SNMP Trap R Categ	leceiver	2014-08-04 16:06:15	192.168.10.199 192.168.10.14	Protocols/Protocol #	Ph ⁱ Status ERROR(Reac Port 8 Link Down	I (¥ Fitter . Ack) Nability=No)
0	Ack		SNMP Trap P Categ Status Worse Status Worse Application In Application In	teceiver gory nito nito	2014-08-04 16:06:15 2014-08-04 16:05:37	192 168 10 199 192 168 10 14 Korentx NMS Service	Protocols/Protocol / Protocols/SNMP	PhStatus ERROR(Reac Port 8 Link Down Authentication is suc	I (¥ Fitter . Ack) Nability=No)
D 0 9 9 7			SNMP Trap P Categ Status Worse Status Worse Application In Application In	teceiver pory nito nito nito	2014-08-04 16:06:15 2014-08-04 16:05:37 2014-08-04 15:59:44	192.168.10.199 192.168.10.14 Korenix NMS Service Korenix NMS Service	Protocols/Protocol i Protocols/SNMP Piemote Access	PorStatus ERROR(Reac Port 8 Link Down Authentication is suc The client leave Moni	Fitter 1 Ack / Ack
D 0 9 8			SNMP Trap P Categ Status Worse Status Worse Application In Application In	teceiver pory nito nito nito nito	2014-08-04 16:06:15 2014-08-04 16:05:37 2014-08-04 15:59:44 2014-08-04 15:59:39	192,168,10,199 192,168,10,14 Korenix NMS Service Korenix NMS Service Korenix NMS Service Korenix NMS Service	Protocols/Protocol / Protocols/SNMP Remote Access Remote Access	Port & Link Down Authentication is such The client leave Mon Authentication is such The client leave Mon	Ack J

Figure 8–8. Node Down Event

While the node restores, JetView Pro will issue a Node up event in Event Management tab page and update the Topology Map Figure 8–9. This event will show *Status OK(Reachability=Yes)* Message.

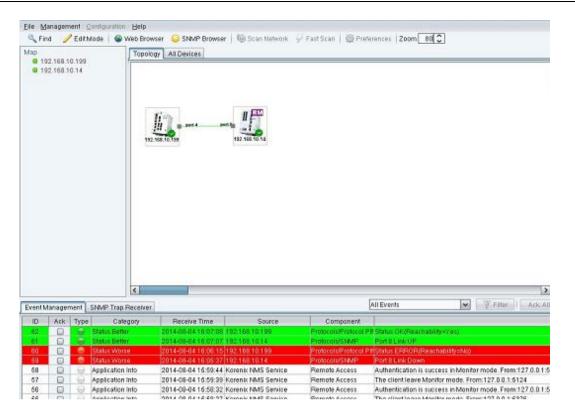


Figure 8–9. Node Up Event

SNMP Trap

SNMP Trap is the notification feature defined by SNMP protocol. All the SNMP management applications can understand such trap information. So you don't need to install new application to read the notification information. The SNMP Trap Receiver of JetView Pro supports SNMP v1/v2c traps receiving.

The following sections illustrate SNMP Trap with Link down and up event.

Enable Link-down and Link-up Event

To enable link-down and link-up event, you must enable SNMP Trap Server and Link down and up event. Enter Web screen to configure these settings.

- 1. Use mouse to select one device on the Topology tab which you want to enable link down and up event.
- 2. Mouse right-click the selected device and click on the Web Browser menu-item of pop-up menu.
- 3. When the login screen appears, login with the user name and password. The default login User Name and Password: admin/admin

🔗 JetNet SwitchManager - Windows Internet Explorer	
🔆 🔄 - 🙋 http://192.168.10.1/index.html 💌 🗲 🗙 🏷 Bing	P -
🚖 🕖 JetNet SwitchManager	
	^
Switch Manager	
Please enter user name and password.	
Site: 192.168.10.1	
User Name: admin	
Password:	
OK Cancel	
	~
	🔍 100 % 🔹 🔡

Figure 8–10. Connect Switch – Switch Manager Start Page

4. Click on the tree node SNMP Traps. Enable SNMP Trap, and set SNMP Trap Server IP address on the machine where the JetView Pro is installed.

JetNet5628G	SNMP Trap			
Gasic Setting Gasic Setting	SNMP Trap Apply	Enable 🔻		
🕶 📑 Multicast Filtering	SNMP Trap S	erver		
←	Server IP	92.168.10.80		
- 🗋 SNMP V3 Profile	Community	ublic		
SNMP Traps Security	Version	● V1 ○ V2c		
←	Add			
←	Trap Server F	rofile		
🗆 🗋 Logout	Server IP	Community	Version	
	192.168.10.80	public	V1 .	▲
				•
	Remove	Reload		

Figure 8–11. Connect Switch – SNMP Trap Configuration

5. Click on the tree node Event Selection. Enable the specified port for link-down and link-up event (ex. Set Port 1 as both).

► □ Basic Setting ► □ Port Configuration	Syste	em Event S	Sele	ection	
Metwork Redundancy	📃 De	vice Cold Start		Device Warm Start	
🗠 📑 Traffic Prioritization	Pov	wer 1 Failure		Power 2 Failure	
🗠 🗂 Multicast Filtering	📄 Aut	hentication Fa	ilure	Time Synchronize Failure	
- SNMP	🔲 Fau	ult Relay		Super Ring Topology Change	
• 🗂 Security • 📑 Warning		P DDM Failure		DI1 Change DI2 Change	
- Sault Relay		DDMFallure		Dir change Diz change	
G Furent & Fare sill@fermine.	Port	Event Sele	ctic	on	
 — D Syslog Configuration 	Port	Link State			
- 🗋 SMTP Configuration	1	Both	-		
🗠 🚍 Monitor and Diag	2	Disable	-		
Device Front Panel	3	Disable	-		
Cave	4	Disable	-		
	5	Disable	-		
	6	Disable	•		
	-				
	7	Disable	-		
	8	Disable	-		
	9	Disable	•		
	10	Disable	•		
	Арр	bly			

Figure 8–12. Management, Event Selection Configuration

Receive SNMP Trap

1. Click on *Start* on the SNMP Trap Receiver tab.

Event Ma	anagement SNMP Trap Re	ceiver A	gent IP Addı	ress: All Traps	▼ Filter	🕞 🖒 Start	Stop
ID	Agent address/Port	Transport	Protocol	Timestamp	Enterprise	Community	

Figure 8–13. SNMP Trap Receiver Tab

2. While plugging in or out the network line (ex. RJ45) on the port 1 of device (ex.192.168.10.1), it will display as follows:

Event M	Event Management SNMP Trap Receiver Agent IP Address: All Traps 🗸 🖓 Filter 🕞 Stort 🚺 Stop											
ID	Agent addressPort	Trensport	Protocol	Timestamp	Enterprise	Connunity		Bindings				
2	192.168.10.1/1024	SNMP-/1	UDP	2009-09-04 11:15:07	1.3.6.1.4.1.24062	public	[1.3.6.1.2.1.2.2.1.] = 1, 1.3.6.1.4.1.2406	(2.4.4.1.0 = Link 1 Up.]				
1	192.168.10.1/1024	SIMP-1	UDP	2009-09-04 11:14:43	1.3.6.1.4.1.24062	public	[1.3.6.1.2.1.2.2.1.] = 1, 1.3.6.1.4.1.2406	(2.4.3.1.0 = Link 1 Down.]				

Figure 8–14. SNMP Trap Receiver with Values Captured

Alarm and Action

When event or SNMP trap are produced. They in addition to display in event management or SNMP Trap Receiver, and they can trigger some alarms and do some actions. The alarm can be triggered by type or other field of event. The actions of JetView Pro supported are Popup Message, E-mail and Run Executable File.

The following sections illustrate how to use alarm and action.

Create an Action

Open JetView Pro Preference, select Event Action and new an action.

Preferences	Event Action					
Events						
Events	Action					
Event Action	Name	Action	Recipient	Execu	table File	New
Status Colors	myAction1	Popup Me:				
SMTP Configuration	myAction2	Send E-M				Edit
SNMP						Delete
SNMP Configuration						Datata
SNMP Trap Receiver						Duplicate
Remote Access						
Applications	<				>	
Background Image	Alarm					
Select Language						
License	Name	Active	Actions	Type	Source	New
	myAlarm	1	myAction1,myAction2	Error	•	Edit
						EGIN
						Delete
						Duplicate
	<				>	

Figure 8–15. Creating an Action

Press New button the Action Editor window will be opened. You need input action name and select an action type (Popup Message, Send E-Mail or Run Executable File) to create a new action.

Or you can manage actions via Edit, Duplicate or Delete functions.

Action Editor	- NewAction X
Name:	myAction3
Action:	Popup Message 🗸 🗸
Recipient:	Popup Message
recipient.	Send E-Mail
Executable File:	Run Executable File
	OK Cancel

Figure 8–16. Action Editor

Create an Alarm

Open JetView Pro Preference, select Event Action and new an alarm.

Press *New* button the Alarm Editor window will be opened. You need input action name and select actions to create a new alarm. Select Active option to active this alarm. *Change Filter Type* or *Source* to filter what event that you want to trigger. Select actions to decide what action will be executed when this alarm is trigged.

Or you can manage actions via Edit, Duplicate or Delete functions.

Alarm Editor - NewAlarm X
Alarm
Active
Name: myAlarm1
Filter
Type: All Types 🖌
Source: *
Actions
MyAction1
M myAction2
~
OK Cancel

Figure 8–17. Alarm Editor

Popup Message Action

When a Popup Message action is executed, all JetView Pro clients will pop up a message as follows:



Figure 8–18. Event Alarm Popup Message

E-mail Action

When a Send E-mail action is executed, the JetView Pro will send an alarm e-mail to your e-mail account (configured in Preference->SMTP configuration). The e-mail could show as follows:

NMS Event Alarm E	-mail
ID:263 Type:Error Category:Status Worse Source:192.168.10.13	Time:2012-07-24 18:28:04 Component:Protocols/Protocol PING Message: Status ERROR(Reachability=No)

Figure 8–19. E-mail Action

Run Executable File Action

When a Run Executable File action is executed, the user specified executable file will be executed.

9. Performance Management

If you want to monitor the traffic of your local network for a period of time, JetView Pro can give you an indication of the network traffic for the connections in a time context. It is useful as a quick reference for determining the amount of network bandwidth being consumed.

Traffic Report

JetView Pro monitor and report selected connection statistics. The tab name of the current traffic history shows two connected devices' IP address and port - Port 13 on the device (192.168.10.10) connects to port 9 on the other device (192.168.10.1). The data was collected by through SNMP's polling. The default sampling rate is set to 30 seconds.

The figure below indicates network load for the specified port. In order to show a visible line on the graph for network traffic on any interface, the view automatically scales to magnify the Y-axle's unit of traffic. The X-axle is time. The Y-axle means the total number of bytes sent on the connection in the polling time interval. The maximum number of entries can be recorded in 30 minutes. When the maximum number of entries is reached, JetView Pro throws out the oldest entry when a new one is recorded.

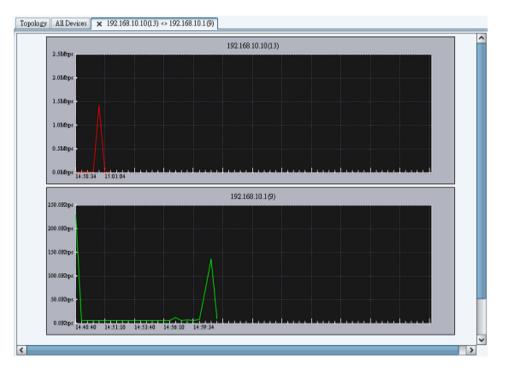


Figure 9–1. Traffic Graphic

To view the traffic report

- Mouse Double-Click on the line between the two devices
- The traffic report only available if the network connection is present
- The traffic tab provides an indication of the network traffic for the connection

10. Preferences

Event

Events

This page allows you to record events into the log file. You can change maximum number of traps, trap log to file and trap log directory.

Prefer	rences	Events		
O E	vents			
	Events	Events		
	Event Action	Max. Number of Events:	1000 🗸	
	Status Colors		1000	
	SMTP Configuration	Event Log to File:	Enable Log to File	
⊖ St	NMP			_
	SNMP Configuration	Event Log Directory:		
	SNMP Trap Receiver			
_	ernate Access			
	pplications			
	ackground Image			
Se	elect Language			
Li	cense			
		Reset to Defaults		
				OK Cancel

Figure 10–1. Events Preferences

Events Action

This page allows you to manage Actions and Alarms; the management functions include *New*, *Edit*, *Delete and Duplicate*.

	eterences	Event Action						
Э	Events	Action						
_	Events	Action						740
	Event Action	Name	Action	n	Recipient	Execu	table File	New
	Status Colors	myAction1	Popup Me	ssage				
	SMTP Configuration	myAction2	Send E-	Mail ja	mes@sssssscom			Edit
Ð	SNMP						1	Delete
	SNMP Configuration							
	SNMP Trap Receiver							Duplicate
	Remote Access							
	Applications	<					>	
	Background Image	Alarm						
	Select Language						· · · · ·	
	License	Name	Active		Actions	Type	Source	New
		myAlarm	(V)	myActio	on1,myAction2	Error		Edit
								Delete
								Duplicate
								Dribicare
		<					>	

Figure 10–2. Event Action

If you press *New, Edit, Delete* or *Duplicate of Action*, the Action Editor will pop up for Action configuring.

Action Editor - NewAction X						
Name:	myAction3					
Action:	Popup Message 🗸 🗸					
Recipient:	Popup Message					
Necipient.	Send E-Mail					
Executable File:	Run Executable File					
	OK Cancel					

Figure 10–3. Action Editor – New Action

If you press *New, Edit, Delete or Duplicate of Alarm*, the Alarm Editor will pop up for Alarm configuring.

Alarm Editor - NewAlarm	
Alarm	
🗹 Active	
Name: myAlarm1	
Filter	
Type: All Types 🗸	
Source: *	
Actions	
🗹 myAction1	
MyAction2	
~	
OK Cancel	

Figure 10–4. Alarm Editor – New Alarm

Status Colors

This page allows you to assign a color to each status. You can change text and background color of 4 types status.

P	references	Status Colors					
Θ	Events Events	Status Colors					
	Event Action	ок:	0K	Text	Background		
	Status Colors						
	SMTP Configuration	Warning:	Warning	Text	Background		
Θ	SNMP SNMP Configuration	Error:	Error	Text	Background		
	SNMP Trap Receiver	Info:	Into	Text	Background		
	Remote Access						
	Applications						
	Background Image						
	Select Language						
	License						
		Reset to Defaults					
		Nonconcentration of the local data					
						OK	Cancel

Figure 10–5. Editing Event Status Colors

SMTP Configuration

While you use to send Email function for Event Action, you must set SMTP Configuration. If SMTP server requests you to authorize first, you can also set up the username and password in this page. And you can press *Test SMTP configuration* to test your configuration after you finish this configuration.

Pret	ferences	SMTP Configuration	
Θ	Events		
	Events	SMTP Configuration	
	Event Action		
	Status Colors	SMTP Server:	
	SMTP Contiguration	Mail Account:	
Θ	SNMP		
	SNMP Configuration		Authentication
	SNMP Trap Receiver	User Name:	
	Remote Access		
	Applications	Password:	
	Background Image	Retype Password:	
	Select Language	newperassword.	
	License	Test SMTP Contiguration	
			OK Cancel

Figure 10–6. SMTP Configuration

SNMP

SNMP Configuration

The JetView Pro will add a default SNMP agent profile for discovered devices. You can use this page to new, edit, delete or duplicate a profile. The configurations of profile include agent listening port (default is 161), SNMP version (support v1/v2c/v3), read/write community, retry numbers and timeout (in second(s)).

Preferences		SNMP Configuration						
Events								
Events		SNMP Agent Profile						
Event Action		IP Address	Port No.	Version	Community	Retries	Timeout (s)	1
Status Colors		192.168.0.199	161	SNMPv1	public,private	4	6	~
SMTP Config	uration	192.168.10.14	161	SNMPv1	public,private	4	6	11
SNMP					,, ,			11
SNMP Config	uration							
SNMP Trap R	eceiver							
Remote Access								
Applications								
Background Imag	je –							
Select Language								v
License								-

Figure 10–7. SNMP Configurations

SNMP Trap Receiver

This page allows you to configure SNMP Trap Receiver and record SNMP Trap into the log file. You can enable the SNMP Trap Receiver on system starting, change listening port, change maximum number of traps, trap log to file and trap log directory.

		1
	erences	SNMP Trap Receiver
0 6	Events	
	Events	SNMP Trap Receiver
	Event Action	Enable On Starting: Enable On Starting
	Status Colors	
	SMTP Configuration	SNMP Trap Listening Port: 162
0 9	SNMP	
	SNMP Configuration	SNMP Traps
	SNMP Trap Receiver	Max. Number of Traps: 1000 🗸
F	Remote Access	Tobo V
1	Applications	Trap Log to File: Enable Log to File
E	Background Image	
\$	Select Language	Trap Log Directory:
L	license	
		Reset to Defaults
		OK Cancel

Figure 10–8. SNMP Trap Receiver Configuration

Remote Access

Due to the access synchronization, we only allow one client to enter the Edit mode at the same time and the other clients on Monitor mode. The Monitor mode can only allow viewer to browse the topology. Edit mode can use all functions. The maximum number of remote client is default 5. You can setup new passwords on Monitor and Edit mode.

P	references	Remote Access		
Θ	Events			
	Events	Properties		
	Event Action	Max. Number of Remote	Clients: 5 🗸	
	Status Colors			
	SMTP Configuration	Password for Monitor Clie	nt	
Θ	SNMP	0		
	SNMP Configuration	Password:	•••••	
	SNMP Trap Receiver	Retype Password:	•••••	
	Remote Access			
	Applications	Password for Edit Client		
	Background Image	Password;		
	Select Language	Forsaworu.		
	License	Retype Password:	******	
		Reset to Defaults		
				OK Cancel

Figure 10–9. SNMP Remote Access Configuration

Applications

The JetView Pro uses external applications for the functions. This page allows you to assign specified programs or use default application to run the functions.

Pr	eterences	Applications		
Θ	Events			
	Events	External Applicat	ions	
	Event Action	Teinet	feinet.exe	 🗹 Use Default
	Status Colors			
	SMTP Configuration	SSH:		
Θ	SNMP	WEB Browser:	iexplore.exe	🗹 Use Default
	SNMP Configuration	MED BIOWSEI.	Texplore.exe	 Se Deladir.
	SNMP Trap Receiver	Ping:	ping.exe	 🗹 Use Default
	Remote Access	DOCHINA	A LOS DIRACIONAL	et un ortent
	Applications	PDF Viewer:	AcroRd32.exe	 🗹 Use Default
	Background Image			
	Select Language			
	License			
		Reset to Defa	ults	
				OK Cancel

Figure 10–10. SNMP Application Configurations

Background Image

This page allows you to configure background image for topology map. You can select an image file to change the default background image.

Pr	eferences	Background Image
Θ	Events	
	Events	Background Image
	Event Action	Background Image File:
	Status Colors	
	SMTP Configuration	
Θ	SNMP	altus
1	SNMP Configuration	
	SNMP Trap Receiver	
	Remote Access	Har.
	Applications	
	Background Image	
	Select Language	
	License	
		Reset to Defaults
		OK Cancel

Figure 10–11. SNMP Background Image Configuration

Select Language

JetView Pro support 4 language interfaces.

Figure 10–12. Selecting Language

You can change JetView Pro display interface by selecting a language option. The Language will apply immediately.

Language:	English 🔽
	English
	繁體中文
	简体中文
	русский

Figure 10–13. Language Options

11. Glossary

Baud rate	Rate in which information bits are transmitted through a serial interface or communication network (measured in Bits/second, bps)
Bit	Basic information unit, it may be at 1 or 0 logic level.
Bus	Set of electrical signals that are part of a logic group with the function of transferring data and control between different elements of a subsystem
Byte	Information unit composed by eight bits.
Communication Network	Set of devices (nodes) interconnected by communication channels.
CPU	Central Processing Unit. It controls the data flow, interprets and executes the program instructions as well as monitors the system devices.
Database	A group of data organized in a table.
Default	A value that is commonly used as a standard
Diagnostic	Procedures to detect and isolate failures. It also relates to the data set used for such tasks, and serves for analysis and correction or problems.
Download	Information that is sent to some device/path.
ESD	Electrostatic Discharge.
Firmware	The operating system of a PLC. It controls the PLC basic functions and executes the application programs.
Frame	Information unit transmitted in the network.
Gateway	Device to connect two communication networks with different protocols.
Hardkey	Connector normally attached to the parallel port of a microcomputer to avoid the use of illegal software copies
Hardware	Physical equipment used to process data where normally programs (software) are executed
I/O	See Input/Output.
Input/output	Also known as I/O. Data input or output devices in a system. In PLCs these are typically the digital or analog modules that monitor or actuate the devices controlled by the system.
Interface	Normally used to refer to a device that adapts electrically or logically the transferring of signals between two equipments.
Kbytes	Memory size unit. Represents 1024 bytes.
LED	Light Emitting Diode. Type of semiconductor diode that emits light when energized. It's used for visual feedback.
Master	Device connected to a communication network originating all the command requests to other network units.
Master-slave communication network	Communication network where the data transfer are initiated only by one node (the network master). The remaining network nodes (slaves) only reply when requested.
Media access	Method used by all nodes in a network to synchronize data transmission and solve possible conflicts in simultaneous transmissions.
Menu	Set of available options for a program, they may be selected by the user in order to activate or execute a specific task
Module (hardware)	Basic element of a system with very specific functionality. It's normally connected to the system by connectors and may be easily replaced.
Module (software)	Part of a program capable of performing a specific task. It may be executed independently or in conjunction with other modules through information sharing by parameters.
Module address:	Address used by the CPU in order to access a specific I/O module.
Node	Any station in a network with the capacity to communicate using a determined protocol.
Operands	Elements on which software instructions work. They may represent constants, variables or set of variables.
PLC	See Programmable Controller.
Programming Language	Set of rules, conventions and syntaxes utilized when writing a program.
Protocol	Procedures and formats rules that allow data transmission and error recovery among devices with the use of control signals
RAM	Random Access Memory. Memory where all the addresses may be accessed directly and in random order at the same speed. It is volatile, in other words, its content is erased when powered off, unless there is a battery to keep its contents.
RX	Acronym used to indicate serial reception.
Serial Channel	Unit interface that transfers data serially.

Software	Computer programs, procedures and rules related to the operation of a data processing system
Sub network	Segment of a communication network that connects a group of devices (nodes) with the goal of isolating the local data traffic or using different protocols or physical media.
Supervisory Station	Equipment connected to a PLC network with the goal of monitoring and controlling the process variables
Tag	Name associated to an operand or to logic that identifies its content.
Time-out	Maximum preset time to a communication to take place. When exceeded, then retry procedures are started or diagnostics are activated.
Toggle	Element with two stable states that are switched at each activation.
тх	Acronym used to indicate serial transmission.
Upload	Reading a program or configuration from the PLC.
Word	Information unit composed by 16 bits.