



# SmartView™ EMS

## Element Management System

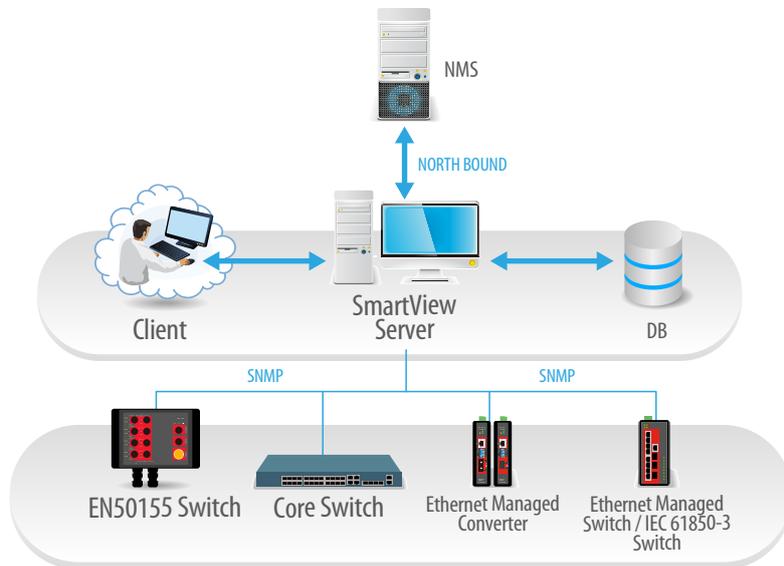
- Centralized Device Management Platform
- Real-time visual representations and processing of alarms
- Easy and User-Friendly Operation Interface
- Long term event storage (1 year)

### Main Features

- Main Functions (**FCAPS**): **F**ault, **C**onfiguration, **A**ccounting, **P**erformance and **S**ecurity Management
- Remote access control for efficient configuration
- Traffic / Performance monitoring and management
- Alarm Trap and event log management
- Auto Discovery and Device Viewer
- Allow up to 25 administrators to login

### Network Scheme Diagram

- Robust Client / Server architecture
- Network Monitoring and Management
- Security Access Management
- User- Friendly Operation Interface
- Database for persistent event storage



### SmartView™ Server

The server handles connection with the network devices using SNMP protocol, and is responsible for communication of requests from management clients. SmartView™ Server collects the information data from specific SNMP agents, stores the information into a persistent database and updates that information to the management clients.

### Agents

All of CTC Union's SNMP enabled products, such as Industrial Core Switch, PoE Switch and PoE Converter are manageable by CTC Union SmartView™ EMS management Platform.

### Microsoft® SQL Server for Persistent Storage

SQL Server is the place where the SmartView™ collected data, such as alarms, traps and user actions is stored for long term retrieval. SmartView™ requires Microsoft® SQL Server and is compatible with SQL Server 2005, SQL 2005 Express, SQL 2008 Server, SQL 2008 Express, SQL 2012 Server and SQL 2012 Express. (The EMS installer will install the free version Microsoft® SQL 2008 Express by default.)

### Workstation-Clients

Management clients are provided with the JAVA applet GUI to monitor and control the agents at far end. They also receive the Alarm and Traps from the corresponding SNMP Agents. Multiple workstations are allowed, with a maximum of 25 concurrent logged in users.

## Features at a Glance

### - Fault Management

#### Trap Collection

All traps will be stored in SQL database. When an SNMP agent experiences an abnormal condition it will send an SNMP trap message to SmartView™ which then receives the message, and records it in the database. Depending on preset conditions, SmartView™ may sound an audible alarm, send an email or SMS alert message or just simply flash the trap message on the administrative console screen.

No.	Ack	Time	Device	Address	Message
1	<input type="checkbox"/>	2015-10-22 15:50:00	IGS-803SM-042	10.1.1.42	snmpTrapOID linkDown. ifIndex: 2. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
2	<input type="checkbox"/>	2015-10-22 15:50:01	IGS-803SM-041	10.1.1.41	snmpTrapOID linkDown. ifIndex: 2. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
3	<input type="checkbox"/>	2015-10-22 15:50:05	IGS-402SM-043	10.1.1.43	snmpTrapOID linkDown. ifIndex: 1. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
4	<input type="checkbox"/>	2015-10-22 15:50:05	IGS-803SM-042	10.1.1.42	snmpTrapOID linkUp. ifIndex: 2. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
5	<input type="checkbox"/>	2015-10-22 15:50:09	IGS-402SM-043	10.1.1.43	snmpTrapOID linkUp. ifIndex: 1. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
6	<input type="checkbox"/>	2015-10-22 15:50:09	IGS-803SM-042	10.1.1.42	snmpTrapOID linkDown. ifIndex: 2. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
7	<input type="checkbox"/>	2015-10-22 15:50:15	IGS-803SM-042	10.1.1.42	snmpTrapOID linkUp. ifIndex: 2. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
8	<input type="checkbox"/>	2015-10-22 15:50:15	IGS-803SM-042	10.1.1.42	snmpTrapOID linkDown. ifIndex: 1. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
9	<input type="checkbox"/>	2015-10-22 15:50:17	IGS-803SM-042	10.1.1.42	snmpTrapOID linkUp. ifIndex: 1. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
10	<input type="checkbox"/>	2015-10-22 15:50:18	IGS-803SM-042	10.1.1.42	snmpTrapOID linkDown. ifIndex: 11. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
11	<input type="checkbox"/>	2015-10-22 15:50:18	IGS-402SM-043	10.1.1.43	snmpTrapOID linkDown. ifIndex: 6. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
12	<input type="checkbox"/>	2015-10-22 15:50:19	IGS-803SM-042	10.1.1.42	snmpTrapOID linkUp. ifIndex: 11. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
13	<input type="checkbox"/>	2015-10-22 15:50:19	IGS-402SM-043	10.1.1.43	snmpTrapOID linkUp. ifIndex: 6. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
14	<input type="checkbox"/>	2015-10-22 15:50:21	IGS-803SM-042	10.1.1.42	snmpTrapOID linkDown. ifIndex: 11. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
15	<input type="checkbox"/>	2015-10-22 15:50:21	IGS-402SM-043	10.1.1.43	snmpTrapOID linkDown. ifIndex: 6. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
16	<input type="checkbox"/>	2015-10-22 15:50:24	IGS-402SM-043	10.1.1.43	snmpTrapOID linkUp. ifIndex: 6. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
17	<input type="checkbox"/>	2015-10-22 15:50:24	IGS-803SM-042	10.1.1.42	snmpTrapOID linkUp. ifIndex: 11. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
18	<input type="checkbox"/>	2015-10-22 15:50:25	IGS-402SM-043	10.1.1.43	snmpTrapOID linkDown. ifIndex: 3. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
19	<input type="checkbox"/>	2015-10-22 15:50:28	IGS-402SM-043	10.1.1.43	snmpTrapOID linkUp. ifIndex: 3. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
20	<input type="checkbox"/>	2015-10-22 15:50:28	IGS-402SM-043	10.1.1.43	snmpTrapOID linkDown. ifIndex: 1. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
21	<input type="checkbox"/>	2015-10-22 15:50:29	IGS-803SM-041	10.1.1.41	snmpTrapOID linkDown. ifIndex: 1. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
22	<input type="checkbox"/>	2015-10-22 15:50:33	IGS-803SM-041	10.1.1.41	snmpTrapOID linkUp. ifIndex: 1. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
23	<input type="checkbox"/>	2015-10-22 15:50:33	IGS-402SM-043	10.1.1.43	snmpTrapOID linkUp. ifIndex: 1. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
24	<input type="checkbox"/>	2015-10-22 15:50:34	IGS-803SM-042	10.1.1.42	snmpTrapOID linkDown. ifIndex: 2. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
25	<input type="checkbox"/>	2015-10-22 15:50:38	IGS-402SM-043	10.1.1.43	snmpTrapOID linkDown. ifIndex: 1. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
26	<input type="checkbox"/>	2015-10-22 15:50:38	IGS-803SM-042	10.1.1.42	snmpTrapOID linkUp. ifIndex: 2. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
27	<input type="checkbox"/>	2015-10-22 15:50:43	IGS-803SM-041	10.1.1.41	snmpTrapOID linkUp. ifIndex: 1. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
28	<input type="checkbox"/>	2015-10-22 15:50:43	IGS-402SM-043	10.1.1.43	snmpTrapOID linkUp. ifIndex: 1. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
29	<input type="checkbox"/>	2015-10-22 15:50:44	IGS-803SM-042	10.1.1.42	snmpTrapOID linkDown. ifIndex: 2. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
30	<input type="checkbox"/>	2015-10-22 15:50:45	IGS-803SM-041	10.1.1.41	snmpTrapOID linkDown. ifIndex: 1. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
31	<input type="checkbox"/>	2015-10-22 15:50:49	IGS-803SM-042	10.1.1.42	snmpTrapOID linkDown. ifIndex: 1. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
32	<input type="checkbox"/>	2015-10-22 15:50:49	IGS-803SM-041	10.1.1.41	snmpTrapOID linkUp. ifIndex: 2. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
33	<input type="checkbox"/>	2015-10-22 15:50:51	IGS-803SM-042	10.1.1.42	snmpTrapOID linkUp. ifIndex: 1. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0
34	<input type="checkbox"/>	2015-10-22 15:50:53	IGS-803SM-042	10.1.1.42	snmpTrapOID linkDown. ifIndex: 11. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
35	<input type="checkbox"/>	2015-10-22 15:50:53	IGS-402SM-043	10.1.1.43	snmpTrapOID linkDown. ifIndex: 6. ifAdminStatus: up. ifOperStatus: down. snmpTrapEnterprise: 0.0
36	<input type="checkbox"/>	2015-10-22 15:50:54	IGS-803SM-042	10.1.1.42	snmpTrapOID linkUp. ifIndex: 11. ifAdminStatus: up. ifOperStatus: up. snmpTrapEnterprise: 0.0

#### Trap Messages

#### Active Alarm

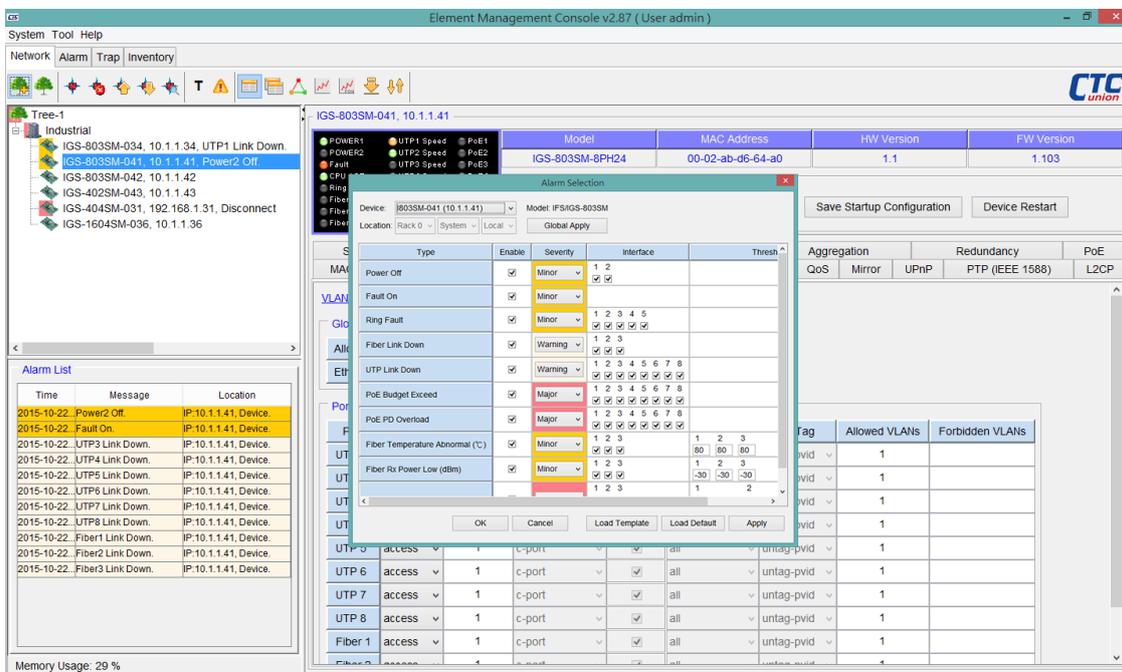
SmartView™ continuously polls all network devices under its management and will visually display all alarm conditions found. Alarms will be categorized as Major, Minor or Warning, depending on severity. Although alarms may be acknowledged, they remain actively displayed on the alarm page until there is no longer an alarm condition.

No.	Ack	Time	Device	Address	Location	Message	Severity
1	<input type="checkbox"/>	2015-10-22 15:49:01	IGS-404SM-031	192.168.1.31	Device	Device Disconnected	Major
2	<input type="checkbox"/>	2015-10-22 15:49:09	IGS-402SM-043	10.1.1.43	Device	Fault On	Minor
3	<input type="checkbox"/>	2015-10-22 15:49:09	IGS-402SM-043	10.1.1.43	Device	Fiber5 Link Down	Warning
4	<input type="checkbox"/>	2015-10-22 15:49:09	IGS-402SM-043	10.1.1.43	Device	Power2 Off	Minor
5	<input type="checkbox"/>	2015-10-22 15:49:09	IGS-402SM-043	10.1.1.43	Device	UTP2 Link Down	Warning
6	<input type="checkbox"/>	2015-10-22 15:49:09	IGS-402SM-043	10.1.1.43	Device	UTP4 Link Down	Warning
7	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	Fiber1 Link Down	Warning
8	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	Fiber2 Link Down	Warning
9	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	Fiber3 Link Down	Warning
10	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	UTP1 Link Down	Warning
11	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	UTP2 Link Down	Warning
12	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	UTP3 Link Down	Warning
13	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	UTP4 Link Down	Warning
14	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	UTP5 Link Down	Warning
15	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	UTP6 Link Down	Warning
16	<input type="checkbox"/>	2015-10-22 15:49:10	IGS-803SM-034	10.1.1.34	Device	UTP8 Link Down	Warning
17	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	Fault On	Major
18	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	Fiber1 Link Down	Warning
19	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	Fiber2 Link Down	Warning
20	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	Power2 Off	Minor
21	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	UTP3 Link Down	Warning
22	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	UTP4 Link Down	Warning
23	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	UTP5 Link Down	Warning
24	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	UTP6 Link Down	Warning
25	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	UTP7 Link Down	Warning
26	<input type="checkbox"/>	2015-10-22 15:49:11	IGS-803SM-042	10.1.1.42	Device	UTP8 Link Down	Warning
27	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	Fault On	Minor
28	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	Fiber1 Link Down	Warning
29	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	Fiber2 Link Down	Warning
30	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	Fiber3 Link Down	Warning
31	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	Power2 Off	Minor
32	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	UTP3 Link Down	Warning
33	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	UTP4 Link Down	Warning
34	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	UTP5 Link Down	Warning
35	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	UTP6 Link Down	Warning
36	<input type="checkbox"/>	2015-10-22 15:50:58	IGS-803SM-041	10.1.1.41	Device	UTP7 Link Down	Warning

#### Active Warning

### Alarm Selection

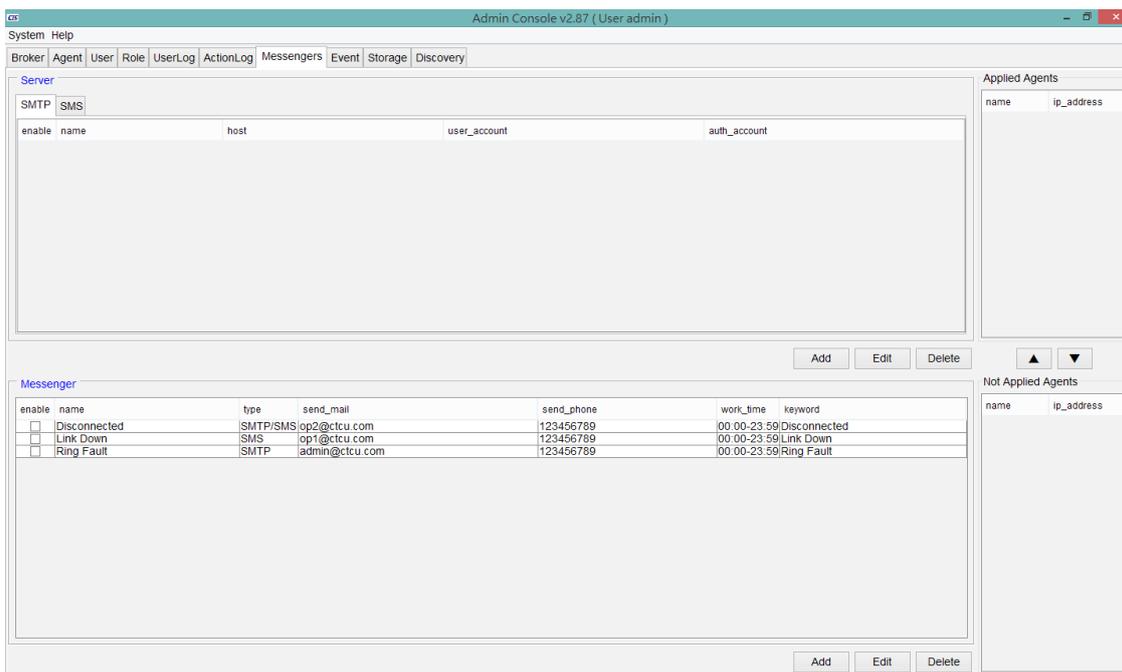
Alarm events of network element are configurable. All alarm events are warned by default, but them can be disabled to ignore warning messages.



Alarms Selection

### Alarms sent by E-mail & SMS

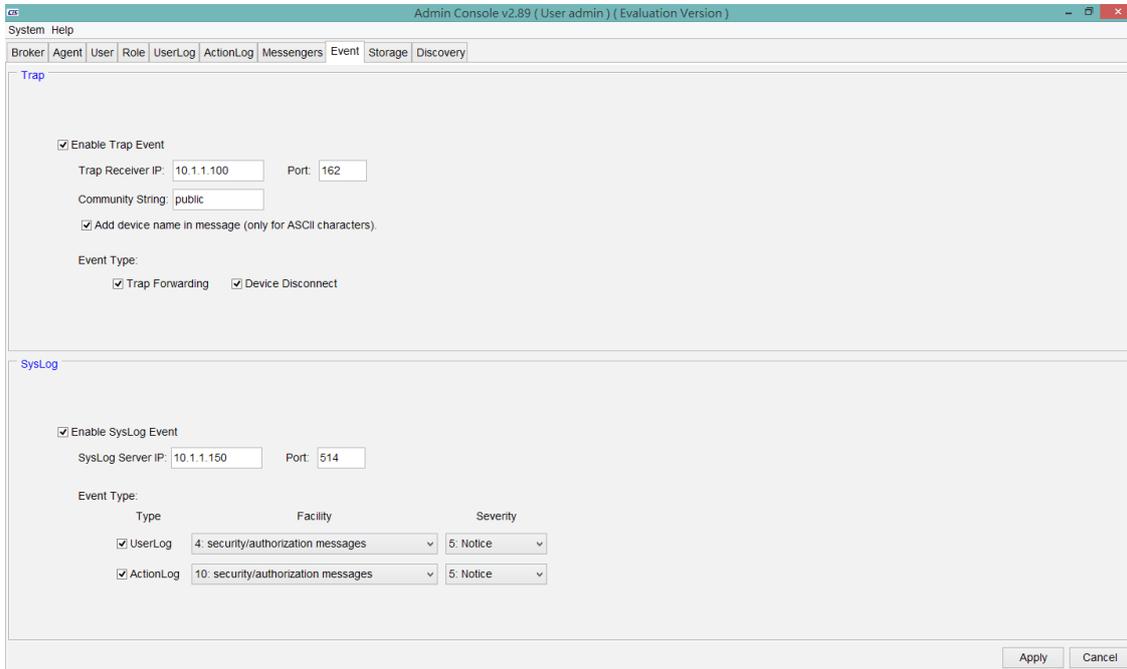
The SmartView™ is capable of sending emails and or SMS text messages to selected administrators when critical alarms occur. Prompt notification of system problems aid in getting problems in the network devices fixed in the shortest time possible.



Alarms Sent by Email & SMS

## Trap Forwarding and Syslog messages

The SmartView is capable of forwarding received traps to upper network management and sending event messages to a syslog server.



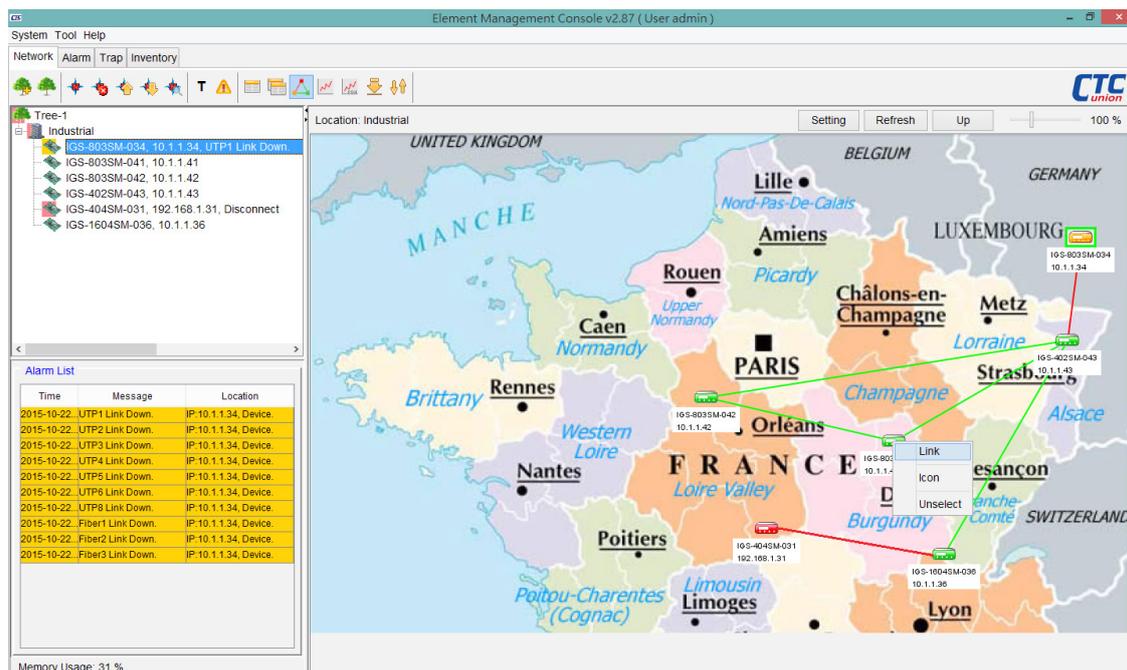
Trap Forwarding Syslog Message

## - Configuration Management

### Network Topology

User can load maps to SQL server, load maps from SQL server or delete attached maps. Download procedure is very simple. Map area may be used to layout any objects from Root and Node panel.

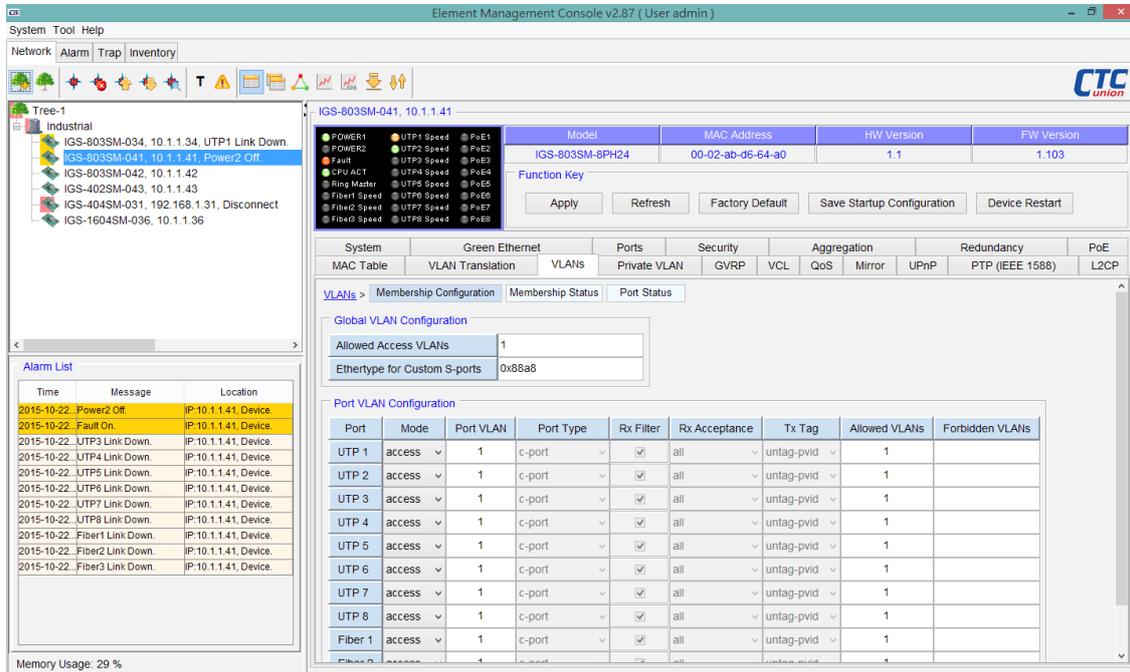
Using drag-and-drop, put any object to map area. Any label or network element location name may be added to object. Objects in red color indicate some alarm condition is present in the device. Right clicking an object brings a popup window to select Telnet or http management of the device directly.



Network Topology

### Network Element Configuration

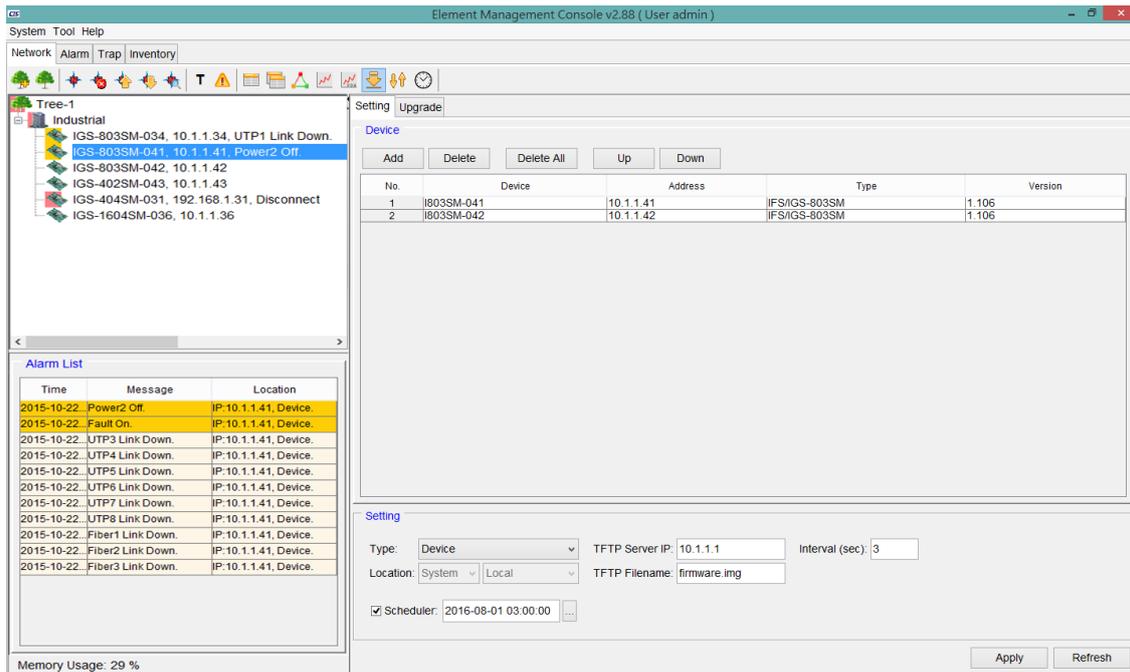
SmartView™ is able to provide a single point of configuration for the network device elements. Most settings only require mouse clicks and by using a tab format, most scrolling is eliminated. Current settings and status are displayed along with hardware and firmware versions for each element.



Network Element Configuration

### Network Element Firmware Upgrade

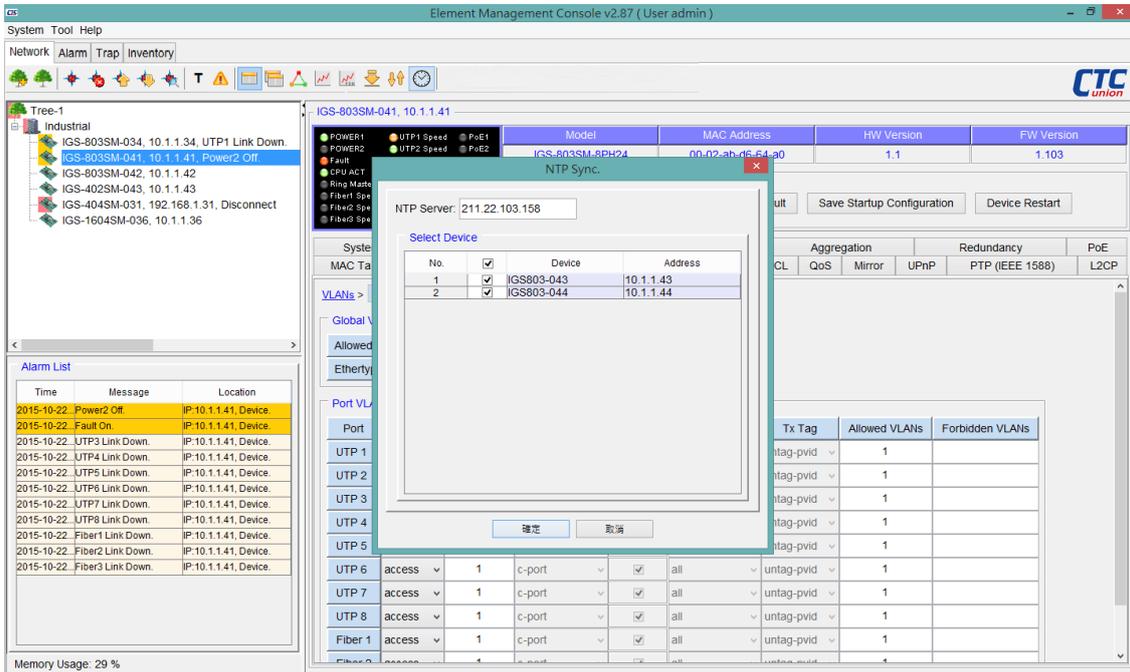
SmartView™ is able to download firmware to device elements and perform configuration backup/restore.



Network Element Firmware Upgrade

## Network Element Time Synchronization

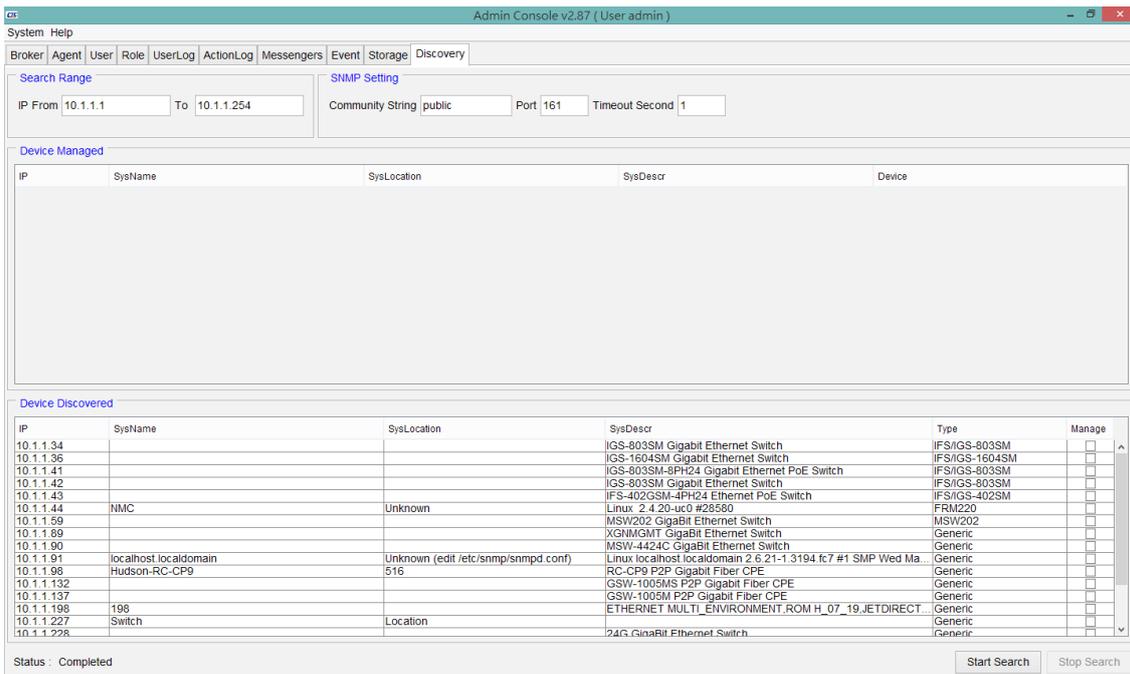
SmartView™ is able to trigger a command to network elements to perform time synchronization with Smartview or a NTP server.



Network Element Time Synchronization

## Network Element Discovery

SmartView™ has a tool for automatically discovering SNMP agents on the network. Simply enter an IP address range and the discovery program will ping every IP address looking for SNMP agents. Once discovered, the agents can be selected and brought into the broker for polling.



Network Element Discovery

## • Accounting Management

The accounting management supports property overview for each network device. The location, status and version of all assets can be managed and exported.

No.	Device	Address	Location	Type	HW Version	FW Version	Serial Number	Alias	Status	Date
1	IGS-1604SM-036	10.1.1.36	Device	IGS-1604SM	1.1	1.103	None		Online	2015-10-22 15:36:44
2	IGS-803SM-041	10.1.1.41	Device	IGS-803SM-8PH24	1.1	1.103	None		Online	2015-10-22 15:36:41
3	IGS-803SM-042	10.1.1.42	Device	IGS-803SM	1.2	1.103	None		Online	2015-10-22 15:36:41
4	IGS-402SM-043	10.1.1.43	Device	IFS-402GSM-4PH24	1.1	1.103	None		Online	2015-10-22 15:36:40
5	IGS-803SM-034	10.1.1.34	Device	IGS-803SM	1.0	1.104	None		Online	2015-10-22 15:36:40
6	IGS-404SM-031	192.168.1.31	Device	IGS-404SM-4PH24	1.1	1.103	None		Offline	2015-10-22 15:40:19

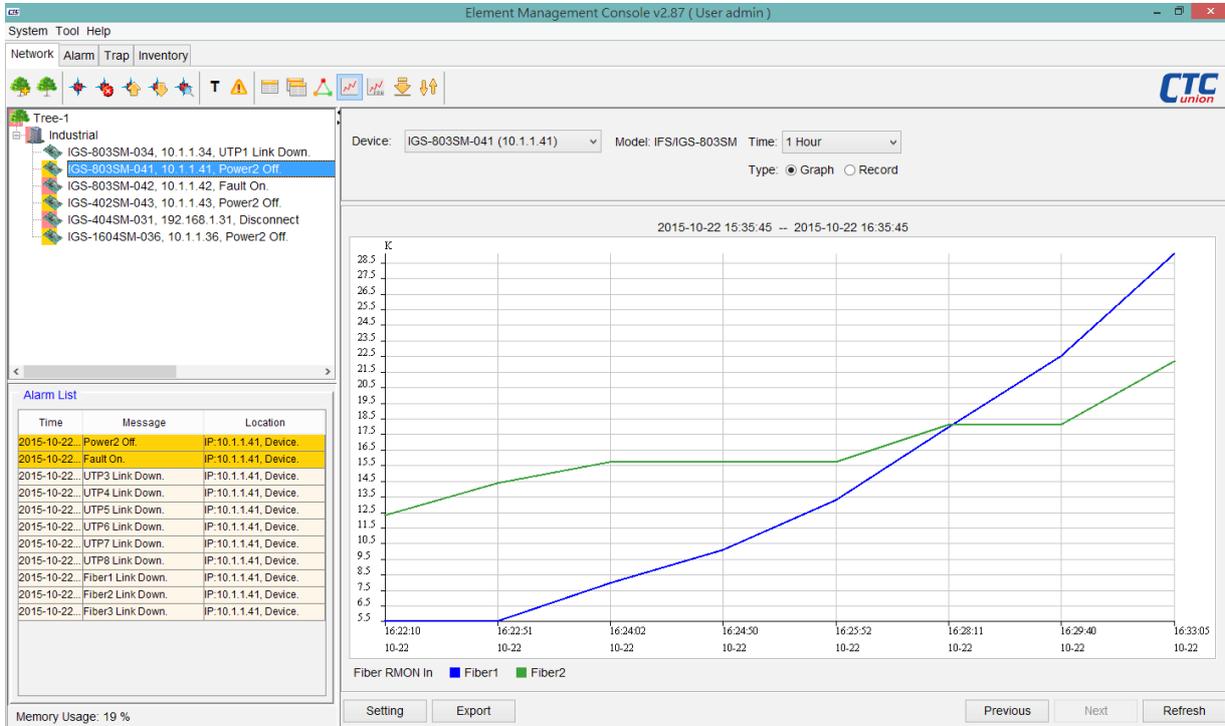
Inventory List

No.	Device	Type	Online	Offline	Total
1	IFS/IGS-1604SM				
2		IGS-1604SM	1	0	1
3					
4	IFS/IGS-402SM				
5		IFS-402GSM-4PH24	1	0	1
6					
7	IFS/IGS-404SM				
8		IGS-404SM-4PH24	0	1	1
9					
10	IFS/IGS-803SM				
11		IGS-803SM	2	0	2
12		IGS-803SM-8PH24	1	0	1
13					

Inventory Summary

## - Performance Management

SmartView™ is able to monitor device performance parameters through polling of specific OIDs. Graphs of performance information (for example PDH PM data such as ES, UAS, etc. as well as hardware parameters such as fan speed, temperature, optical Tx/Rx power or RMON counters) can be generated on an X Y axis showing different trend data.



Performance Graphics

The screenshot displays the 'Performance Records' interface. The main area shows a table with 22 records of performance data for 'Fiber RMON In'. The table columns are: No., Device, Address, Time, Param, Interface, and Value. The records show a steady increase in values over time. At the bottom, there are buttons for 'Setting', 'Export', 'Previous', 'Next', and 'Refresh'.

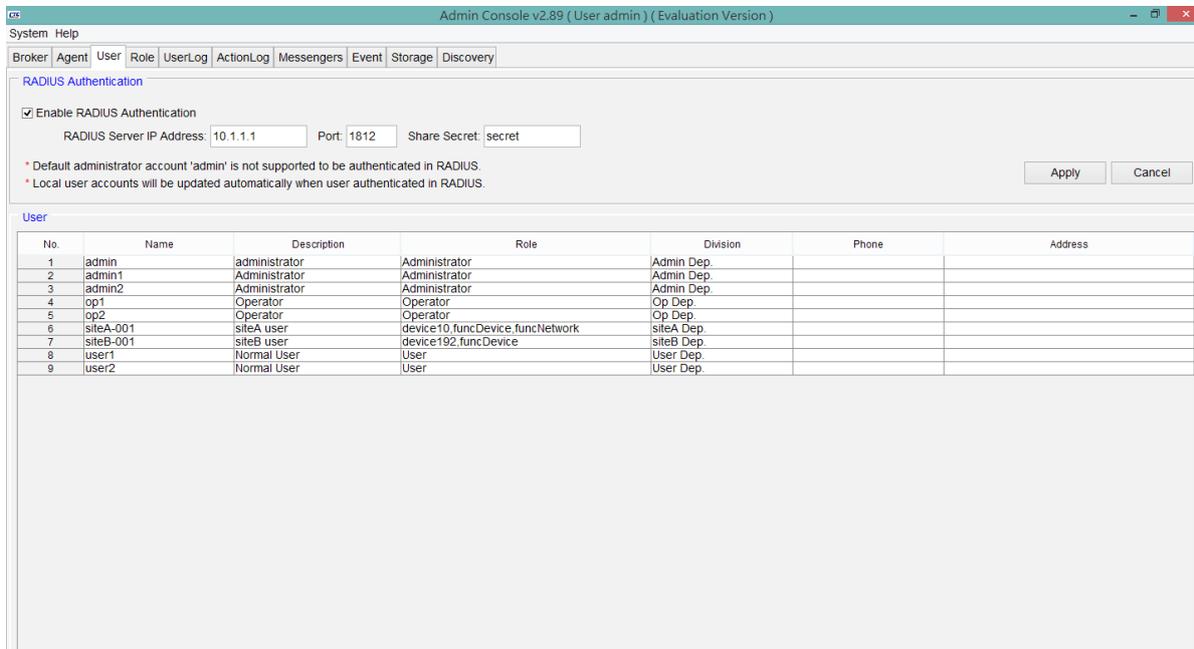
No.	Device	Address	Time	Param	Interface	Value
1	IGS-803SM-041	10.1.1.41	2015-10-22 16:22:10	Fiber RMON In	1	5536
2	IGS-803SM-041	10.1.1.41	2015-10-22 16:22:10	Fiber RMON In	2	12354
3	IGS-803SM-041	10.1.1.41	2015-10-22 16:22:51	Fiber RMON In	1	5536
4	IGS-803SM-041	10.1.1.41	2015-10-22 16:22:51	Fiber RMON In	2	14422
5	IGS-803SM-041	10.1.1.41	2015-10-22 16:24:02	Fiber RMON In	1	7998
6	IGS-803SM-041	10.1.1.41	2015-10-22 16:24:02	Fiber RMON In	2	15758
7	IGS-803SM-041	10.1.1.41	2015-10-22 16:24:50	Fiber RMON In	1	10134
8	IGS-803SM-041	10.1.1.41	2015-10-22 16:24:50	Fiber RMON In	2	15758
9	IGS-803SM-041	10.1.1.41	2015-10-22 16:25:52	Fiber RMON In	1	13338
10	IGS-803SM-041	10.1.1.41	2015-10-22 16:25:52	Fiber RMON In	2	15758
11	IGS-803SM-041	10.1.1.41	2015-10-22 16:28:11	Fiber RMON In	1	18004
12	IGS-803SM-041	10.1.1.41	2015-10-22 16:28:11	Fiber RMON In	2	18156
13	IGS-803SM-041	10.1.1.41	2015-10-22 16:29:40	Fiber RMON In	1	22544
14	IGS-803SM-041	10.1.1.41	2015-10-22 16:29:40	Fiber RMON In	2	18156
15	IGS-803SM-041	10.1.1.41	2015-10-22 16:33:05	Fiber RMON In	1	29090
16	IGS-803SM-041	10.1.1.41	2015-10-22 16:33:05	Fiber RMON In	2	22222
17	IGS-803SM-041	10.1.1.41	2015-10-22 16:38:05	Fiber RMON In	1	44126
18	IGS-803SM-041	10.1.1.41	2015-10-22 16:38:05	Fiber RMON In	2	22222
19	IGS-803SM-041	10.1.1.41	2015-10-22 16:43:04	Fiber RMON In	1	59022
20	IGS-803SM-041	10.1.1.41	2015-10-22 16:43:04	Fiber RMON In	2	22222
21	IGS-803SM-041	10.1.1.41	2015-10-22 16:48:04	Fiber RMON In	1	74126
22	IGS-803SM-041	10.1.1.41	2015-10-22 16:48:04	Fiber RMON In	2	22222

Performance Records

• Security Management

**User Privilege**

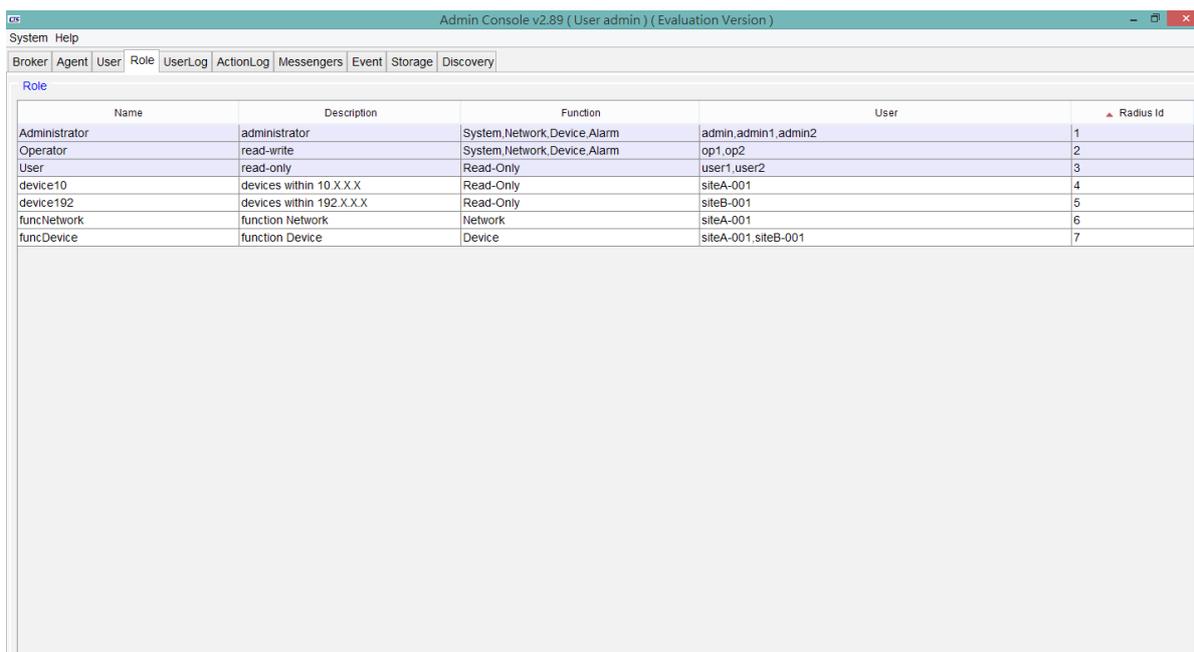
- The administrator can add necessary user logins with specific privileges, from Administrator to Operator and lastly to normal user.
- Radius Authentication. Supports authentication login provided by credentials stored on RADIUS server.



User Privilege

**User Role**

A user role is a group and defines privileges for users to perform management tasks. The access to network elements is also restricted by user role.



User Role

## User Activity

Provides viewing and clearing of the user login and configuration action logs. User client login & logouts are recorded, including the client's source IP address. All activities performed on any Network Element are logged with time-stamping, the user making changes and the changes made.

No.	Time	Username	Agent Name	Action
1	2015-10-22 18:06:46	admin	IGS-803SM-041	[PortSpeedMode 3] auto -> speed1Gfdx
2	2015-10-22 18:06:46	admin	IGS-803SM-041	[PortSpeedMode 4] auto -> speed1Gfdx
3	2015-10-22 18:06:47	admin	IGS-803SM-041	[PortSpeedMode 5] auto -> speed1Gfdx
4	2015-10-22 18:06:47	admin	IGS-803SM-041	[PortSpeedMode 6] auto -> speed1Gfdx
5	2015-10-22 18:06:47	admin	IGS-803SM-041	[PortSpeedMode 7] auto -> speed1Gfdx
6	2015-10-22 18:06:47	admin	IGS-803SM-041	[PortSpeedMode 8] auto -> speed1Gfdx
7	2015-10-22 18:06:47	admin	IGS-803SM-041	[PortSpeedMode 9] auto -> speed1Gfdx
8	2015-10-22 18:06:47	admin	IGS-803SM-041	[PortSpeedMode 10] auto -> speed1Gfdx
9	2015-10-22 18:06:47	admin	IGS-803SM-041	[PortSpeedMode 11] auto -> speed1Gfdx
10	2015-10-22 18:09:24	admin	IGS-803SM-042	[PortFlowCtrlEnabled 3] false -> true
11	2015-10-22 18:09:25	admin	IGS-803SM-042	[PortFlowCtrlEnabled 4] false -> true
12	2015-10-22 18:09:25	admin	IGS-803SM-042	[PortFlowCtrlEnabled 5] false -> true
13	2015-10-22 18:09:25	admin	IGS-803SM-042	[PortFlowCtrlEnabled 6] false -> true
14	2015-10-22 18:09:25	admin	IGS-803SM-042	[PortFlowCtrlEnabled 7] false -> true
15	2015-10-22 18:09:25	admin	IGS-803SM-042	[PortFlowCtrlEnabled 8] false -> true
16	2015-10-22 18:09:25	admin	IGS-803SM-042	[PortFlowCtrlEnabled 9] false -> true
17	2015-10-22 18:09:25	admin	IGS-803SM-042	[PortFlowCtrlEnabled 10] false -> true
18	2015-10-22 18:09:48	admin	IGS-803SM-041	[PortExcCoilMode 3] discard -> restart
19	2015-10-22 18:09:48	admin	IGS-803SM-041	[PortExcCoilMode 4] discard -> restart
20	2015-10-22 18:09:48	admin	IGS-803SM-041	[PortExcCoilMode 5] discard -> restart
21	2015-10-22 18:09:48	admin	IGS-803SM-041	[PortExcCoilMode 6] discard -> restart
22	2015-10-22 18:09:48	admin	IGS-803SM-041	[PortExcCoilMode 7] discard -> restart
23	2015-10-22 18:09:48	admin	IGS-803SM-041	[PortExcCoilMode 8] discard -> restart
24	2015-10-22 18:09:48	admin	IGS-803SM-041	[PortExcCoilMode 8] restart -> restart
25	2015-10-22 18:09:48	admin	IGS-803SM-041	[PortExcCoilMode 8] restart -> restart
26	2015-10-22 18:09:48	admin	IGS-803SM-041	[PortExcCoilMode 8] restart -> restart
27	2015-10-22 18:10:33	admin	IGS-803SM-042	[PortSpeedMode 3] auto -> speed1Gfdx
28	2015-10-22 18:10:34	admin	IGS-803SM-042	[PortSpeedMode 4] auto -> speed1Gfdx
29	2015-10-22 18:10:34	admin	IGS-803SM-042	[PortSpeedMode 5] auto -> speed1Gfdx
30	2015-10-22 18:10:34	admin	IGS-803SM-042	[PortSpeedMode 6] auto -> speed1Gfdx

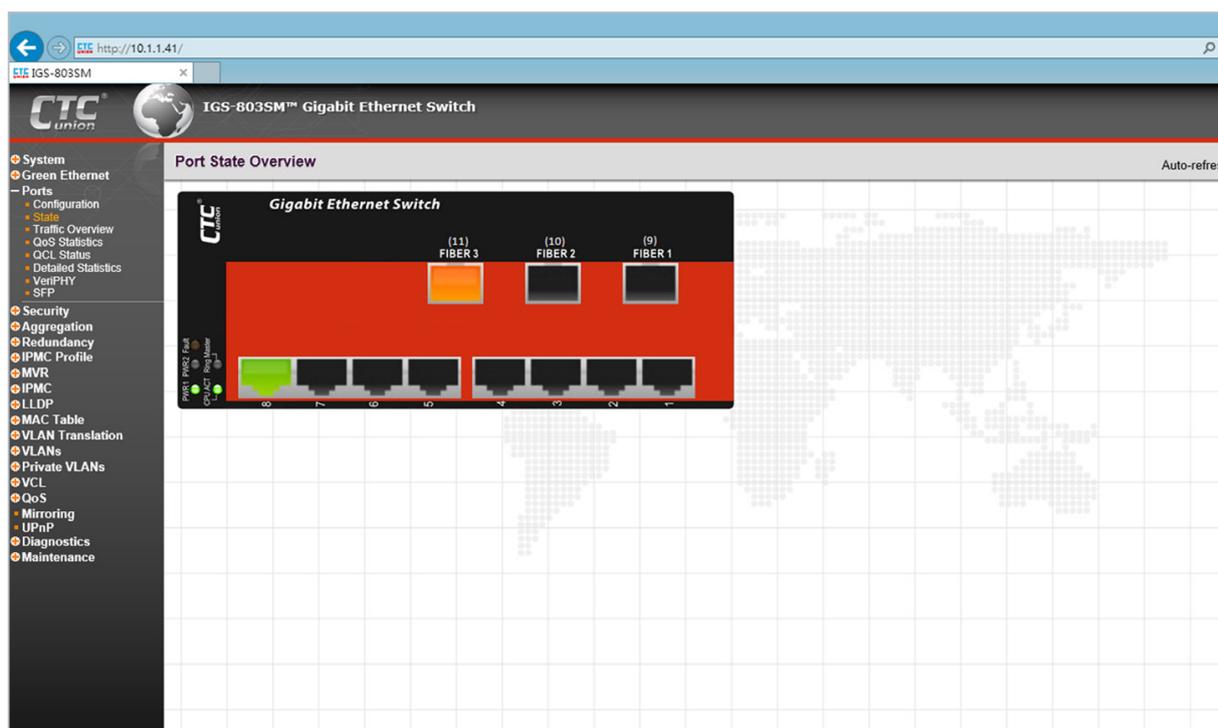
User Activity

## Available Models

### - Industrial Ethernet Switch & Media Converter

The screenshot shows the Element Management Console v2.75 (User admin) interface. On the left, a tree view shows the network structure, including a selected device 'IGS-803SM-041, 10.1.1.41'. The main area displays configuration options for this device, such as 'POWER1', 'POWER2', 'Fiber1 Speed', and 'Fiber2 Speed'. Below the configuration, there is a 'Gigabit Ethernet Switch' diagram showing fiber ports (FIBER 1, FIBER 2, FIBER 3) and other network ports. An 'Alarm List' is visible at the bottom left, showing various system messages like 'Power2 Off' and 'UTP1 Link Down'.

EMS Interface



Web Interface

## Requirements

SmartView™	Hardware (minimum)	Software	Operating System
SmartView™ Server	Intel Core2 or higher processor, 2GB RAM, 40GB HD.	JAVA JRE, SmartView™ Kit, MS-SQL Server	Windows 2008/2012 Server, Windows Vista, Win 7/8
SmartView Clients	Intel Core2 or higher processor, 2GB RAM, 20GB HD.	JAVA JRE, SmartView™ Kit.	Windows Vista, Win 7/8
All-In-One	Intel Core2 or higher processor, 4GB RAM, 80GB HD.	JAVA JRE, MS-SQL Server, SmartView™ kit, SmartView™ Server/Client	Windows 2008/2012 Server, Windows Vista, Win 7/8

## SmartView™ Supported Industrial Product List

Product Series	Model List
Industrial Managed Ethernet Switch	IGS-404SM, IGS-803SM, IGS-812SM, IGS-1604SM, IFS-402GSM, IFS-803GSM, IFS-1604GSM, IGS-804SM-SE, IGS-1608SM-SE
Industrial Managed PoE Switch	IGS-402SM-4PH24, IGS-803SM-8PH24, IGS-1608SM-8PH, IFS-1608GSM-8PH, IFS-402GSM-4PH24, IFS-803GSM-8PH24
Industrial Managed Media Converter	IMC-1000MS
Industrial Managed Converter with PoE	IMC-1000MS-PH12
IEC61850-3 Ethernet Switch	IPS-G803SM, IPS-803GSM
EN50155 Ethernet Switch	ITP-G802SM, ITP-G800M, ITP-802GSM, ITP-802GTM, ITP-800M
EN50155 Ethernet Switch with PoE	ITP-G802SM-8PH24, ITP-G800M-8PH24, ITP-802GSM-8PH24, ITP-802GTM-8PH24, ITP-800M-8PH24
Industrial Core Switch	ICS-G2454X, ICS-G2452X

## Ordering Information

### SmartView™ Platform Server with Device Agents

Model Name	Description
SV2-AGT-50	SmartView™ Platform with 50 device agents for Industrial grade product
SV2-AGT-100	SmartView™ Platform with 100 device agents for Industrial grade product
SV2-AGT-200	SmartView™ Platform with 200 device agents for Industrial grade product
SV2-AGT-500	SmartView™ Platform with 500 device agents for Industrial grade product

Agent  
**SV2 – AGT** –   
 Example: SV2 – AGT – 100