

Management Software

- Centralized Device Management
- Real-time visual representations & processing of alarms

СТС

SmartView™

EMS

- Long term event storage (up to 1 year)
- Easy, User-Friendly Operation Interface

CTCUnion's Industrial Network Management System is a comprehensive management tool, including **SmartView[™] Element Management System (EMS)** and **SmartConfig[™]**. Whether it is for monitoring, configuration, maintenance, or troubleshooting, the management software has a tool for every task.

SmartView[™]EMS

(Element Management System)

- Main Functions (FCAPS):
- -Fault Management
- -Configuration Management
- -Accounting Management
- -Performance Management
- -Security 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

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

SmartView[™] Management Architecture

· Agents

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

· 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. SmartView™ server requires 64bit Microsoft® Windows™ O.S.

Microsoft® SQL Server for Persistent Storage

SQL Server is the place where SmartView[™] stores collected data, such as alarms, traps and user actions, for long term retrieval. SmartView[™] requires Microsoft[®] SQL Server and is compatible with SQL 2008 Server, SQL 2008 Express, SQL 2014 Server and SQL 2014 Express. (The EMS installer will install the free version Microsoft[®] SQL 2008 Express or SQL 2014 Express under Windows 10 by default).

· Workstation-Clients

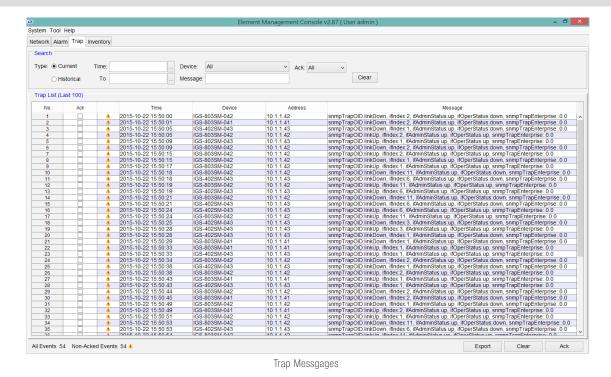
Management clients are provided with the JAVA applet GUI to monitor and control the agents at far end. They also receive the Alarm and Traps from the corresponding SNMP Agents. Multiple workstations are allowed, with a maximum of 25 concurrent logged in users.

Features at a Glance

Fault Management

TrapCollection

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.



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.

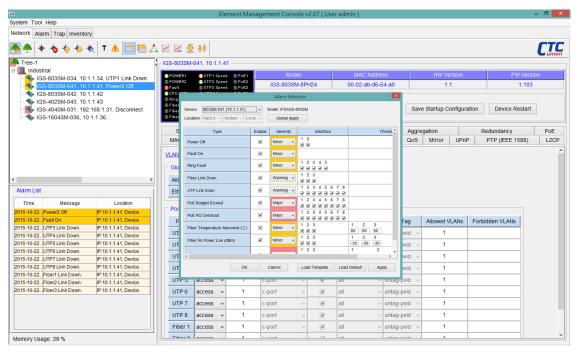
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26				2016 10 22 16:60:69	100 000	244.044		10114	1	Dovico			UTD7 Link Down	Marning

Active Warning

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

MarmSelection

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



Alarms Selection

Alarmssent 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.

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Alarms Sent by Email & SMS

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TrapForwarding and Syslog messages

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

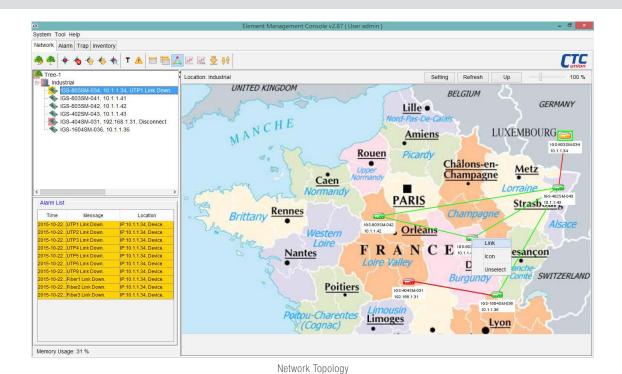
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Trap Forwarding Syslog Message

Configuration Management

NetworkTopology

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



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NetworkElementConfiguration

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.

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🍲 IGS-402SM-043, 10.1.1.4		Ring Master Fiber1 Speed	UTP5 Spee UTP8 Spee									
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Network Element Configuration

NetworkElementFirmwareUpgrade

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

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System Tool Help		
Network Alarm Trap Inventory		
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Tree-1	Setting Upgrade	
- Industrial		
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- 🏇 IGS-803SM-041, 10.1.1.41, Power2 Off.	Add Delete Delete All Up Down	
- TGS-803SM-042, 10.1.1.42		
- % IGS-402SM-043, 10.1.1.43	No. Device Address Type	Version
IGS-404SM-031, 192.168.1.31, Disconnect	1 1803SM-041 10.1.1.41 IFS/IGS-803SM 1.1	
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Alarm List		
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2015-10-22Fault On. IP:10.1.1.41, Device. 2015-10-22UTP3 Link Down. IP:10.1.1.41, Device.		
2015-10-22UTP4 Link Down. IP:10.1.1.41, Device.		
2015-10-22 UTP5 Link Down. IP:10.1.1.41, Device.		
2015-10-22 UTP6 Link Down. IP:10.1.1.41, Device.		
2015-10-22 UTP7 Link Down. IP:10.1.1.41, Device.	1	
2015-10-22 UTP8 Link Down. IP:10.1.1.41, Device.	Setting	
2015-10-22 Fiber1 Link Down. IP:10.1.1.41, Device.		
2015-10-22 Fiber2 Link Down. IP:10.1.1.41, Device.	Type: Device v TFTP Server IP: 10.1.1.1 Interval (sec): 3	
2015-10-22Fiber3 Link Down. IP:10.1.1.41, Device.	Location: System v Local v TFTP Filename: firmware.ing	
	Scheduler. 2016-08-01 03:00:00	
Memory Usage: 29 %		Apply Refresh

Network Element Firmware Upgrade

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NetworkElementTimeSynchronization

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

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System Tool Help											
Network Alarm Trap Inventory											
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Tree-1	GS-803SM-	041, 10.1.1.41 —									
e Industrial	POWER1	😑 UTP1 Speed 🛛 🧉	PoE1	Model		MAC Add	ress		HW Version	FW	/ Version
IGS-803SM-034, 10.1.1.34, UTP1 Link Down.	POWER2	OUTP2 Speed		IGS-803SM-8PH	124	00-02-ab-d6			1.1		1.103
GS-803SM-041, 10.1.1.41, Power2 OII.	Eault			NTP Sync.			×				
🔸 IGS-402SM-043, 10.1.1.43	Ring Maste Fiber1 Spe						1				
- 🌺 IGS-404SM-031, 192.168.1.31, Disconnect	Fiber2 Spe	NTP Server: 2	211.22.10	03.158				ult Sav	e Startup Configura	ation Device Re	estart
	🔵 Fiber3 Spe										
	Syste	Select Devi	ce					Aggr	egation	Redundancy	PoE
	MAC Ta	No.	~	Device		Address		CL QoS	Mirror UPnF	P PTP (IEEE 15	588) L2CP
		1		IGS803-043	10.1.1.4			-	1 1		^
	<u>VLANs</u> >	2	•	IGS803-044	10.1.1.4	14					
	Global \										
	Allowed										
Alarm List											
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Time Message Location	Port VL										_
2015-10-22Power2 Off. IP:10.1.1.41, Device.											
2015-10-22Fault On. IP:10.1.1.41, Device. 2015-10-22UTP3 Link Down. IP:10.1.1.41, Device.	Port							Tx Tag	Allowed VLANs	Forbidden VLANs	
2015-10-22UTP3 Link Down. IP:10.1.1.41, Device. 2015-10-22UTP4 Link Down. IP:10.1.1.41, Device.	UTP 1							ntag-pvid 🗸	1		
2015-10-22UTP5 Link Down. IP:10.1.1.41, Device.	UTP 2							ntag-pvid v	1		
2015-10-22 UTP6 Link Down. IP:10.1.1.41, Device.											
2015-10-22UTP7 Link Down. IP:10.1.1.41, Device.	UTP 3							ntag-pvid v	1		
2015-10-22UTP8 Link Down. IP:10.1.1.41, Device. 2015-10-22Fiber1 Link Down. IP:10.1.1.41, Device.	UTP 4			確定 彫	滴			ntag-pvid 🗸	1		
2015-10-22Fiber1 Link Down. IP:10.1.1.41, Device. 2015-10-22Fiber2 Link Down. IP:10.1.1.41, Device.	UTP 5							ntag-pvid 🗸	1		
2015-10-22Fiber3 Link Down. IP:10.1.1.41, Device.	UTP 6	access v	1	c-port v	4	all	~ u	ntag-pvid v	1		
	UTP 7		1		4		-		1		
		access v		c-port v			-	ntag-pvid v			
	UTP 8	access v	1	c-port v	1	all	~ u	ntag-pvid v	1		
	Fiber 1	access v	1	c-port v	4	all	~ u	ntag-pvid 🗸	1		
Memory Usage: 29 %	Elbor 0		4	a past				ntaa nuid	4		· ·

Network Element Time Synchronization

NetworkElementDiscovery

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.

G 5		Admin Console v2.87	(User admin)		- 0 ×
System Help					
Broker Agent Use	er Role UserLog ActionLog Messengers	Event Storage Discovery			
Search Range		SNMP Setting			
IP From 10.1.1.1	To 10.1.1.254	Community String public Port 161	Timeout Second 1		
Device Managed					
IP	SysName	SysLocation	SysDescr Device		
Device Discovere					
Device Discovere	0				
IP	SysName	SysLocation	SysDescr	Туре	Manage
10.1.1.34			IGS-803SM Gigabit Ethernet Switch	IFS/IGS-803SM	□ ^
10.1.1.36			IGS-1604SM Gigabit Ethernet Switch	IFS/IGS-1604SM	
10.1.1.41			IGS-803SM-8PH24 Gigabit Ethernet PoE Switch	IFS/IGS-803SM	
10.1.1.42			IGS-803SM Gigabit Ethernet Switch	IFS/IGS-803SM	
10.1.1.43			IFS-402GSM-4PH24 Ethernet PoE Switch	IFS/IGS-402SM	
10.1.1.44	NMC	Unknown	Linux 2.4.20-uc0 #28580	FRM220	
10.1.1.59			MSW202 GigaBit Ethernet Switch	MSW202	
10.1.1.89 10.1.1.90			XGNMGMT GigaBit Ethernet Switch	Generic	
	la salla sati la salata main	University (a diff (she (see as for a set))	MSW-4424C GigaBit Ethernet Switch	Generic	
10.1.1.91 10.1.1.98	localhost.localdomain Hudson-RC-CP9	Unknown (edit /etc/snmp/snmpd.conf) 516	Linux localhost.localdomain 2.6.21-1.3194.fc7 #1 SMP Wed Ma RC-CP9 P2P Gigabit Fiber CPE		H
10.1.1.98	nuuson-RC-CP9	010	GSW-1005MS P2P Gigabit Fiber CPE	Generic Generic	<u> </u>
10.1.1.132			GSW-1005MS P2P Gigabit Fiber CPE	Generic	
10.1.1.198	198		ETHERNET MULTI ENVIRONMENT.ROM H 07 19.JETDIRECT		
10.1.1.227	Switch	Location	ETTERNET MOET_ENVIRONMENT,ROM H_07_19,JETDIRECT	Generic	<u> </u>
10.1.1.227	omen	Location	24G GigaBit Ethernet Switch	Generic	
Status : Complete	d			Start Search	Stop Search

Network Element Discovery

Accounting Management

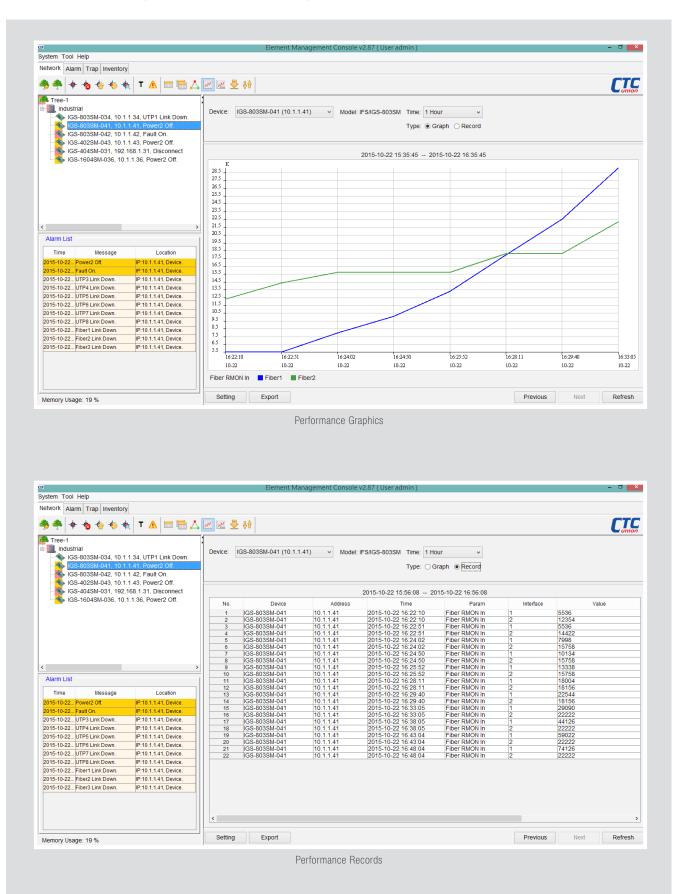
The accounting management supports property overview for each network device. The location, status and version of all assets can be managed and exported.

No. Device Address Location Tipe HW Version Serial Number Als Due 1 0.5 55424544.40g 10.1 10 Device 10.5 10.1 Device 10.5 10.1 Device 10.5 10.1 Device 10.5 10.1 Device 10.1 Device 10.5 10.1 Device 10.5 10.1 Device 10.5 Device 10.1 Device 10.5 Device 10.1 Device 10.5 Device 10.1 Device 10.5 Device Device 10.5 Device Device Device 10.5 Device Device <td< th=""><th></th><th>I Help</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>		I Help																			
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pg 1/1 Prid Prid Prid Last Refer No 56500000 1011000 1000000000000000000000000000000000000	⊖ Su	immary	То		L	ocation:	All Racks	 All Slots 	s v Alls	Sites v	Туре:			Alias	S:			Remark			Clear
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Epon Eat Device Inventory List Inventory List • • • • • • • •	5	IGS-803	SM-034	10.1.1.43 10.1.1.34	D	evice	10	S-803SM		1.0	1.	.103 .104	None	9					Online	2015-1	10-22 15:36:4 10-22 15:36:4
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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.



TC

Security Management

UserPrivilege

- 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.

			Admin Console v2.89 (User ad	dmin) (Evaluation Version)		- 0
m Hel	lp					
er Ag	ent User Role UserLog	ActionLog Messengers Eve	nt Storage Discovery			
DIUS A	Authentication					
Enable	e RADIUS Authentication					
	ADIUS Server IP Address:	10.1.1.1 Port: 1812	2 Share Secret: secret			
	CADIOD OCIVEI II Address.		Share Secret. Secret			
	t administrator account 'ad					Apply Cancel
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ocal u er No. 1 2 3 4 5 6 7	Name admin admin1 admin2 op1 op2 site8-001 site8-001	Description administrator Administrator Administrator Operator Operator SiteA user SiteB user	Role Administrator Administrator Administrator Operator Operator Operator device10,funcDevice funcNetwork device20,funcDevice	Admin Dep. Admin Dep. Admin Dep. Op Dep. Op Dep. siteA Dep.	Phone	

User Privilege

UserRole

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.

5	A	dmin Console v2.89 (User admin) (Eva	uation Version)	- 0
ystem Help				
Broker Agent User Role UserLog	ctionLog Messengers Event Storage D	iscovery		
Role				
Name	Description	Function	User	Radius Id
Administrator	administrator	System, Network, Device, Alarm	admin,admin1,admin2	1
Operator	read-write	System,Network,Device,Alarm	op1,op2	2
User	read-only	Read-Only	user1,user2	3
device10	devices within 10.X.X.X	Read-Only	siteA-001	4
device192	devices within 192.X.X.X	Read-Only	siteB-001	5
funcNetwork	function Network	Network	siteA-001	6
funcDevice	function Device	Device	siteA-001,siteB-001	7

User Role

UserActivity

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.

		Admi	n Console v2.87 (User admin)					- 0
stem Help)							
roker Age	ent User Role UserLog ActionLog Messer	ngers Event Storage Discovery						
Search								
Search								
Time From	Username	All						
То	Agent Name	e All v Search	Clear					
ActionLog								
Page : 1 / 2	2			First	Last	Previous	Next	Refres
No.	Time	Username	Agent Name			Action		
1	2015-10-22 18:06:46	admin	IGS-803SM-041	[iPortSpeedMode.3]	auto> sne	ed1Gfdy		
2		admin	IGS-803SM-041	iPortSpeedMode.4				
3		admin	IGS-803SM-041	[iPortSpeedMode.5				
4		admin	IGS-803SM-041	[iPortSpeedMode.6				
5		admin	IGS-803SM-041	[IPortSpeedMode.7				
6		admin	IGS-803SM-041	[iPortSpeedMode.8				
7		admin	IGS-803SM-041	[iPortSpeedMode.9				
8		admin	IGS-803SM-041	[iPortSpeedMode.10				
9		admin	IGS-803SM-041	[iPortSpeedMode.11				
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11		admin	IGS-803SM-042	[iPortFlowCtrlEnable				
12		admin	IGS-803SM-042	[iPortFlowCtrlEnable				
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18		admin	IGS-803SM-041	[iPortExcCollMode.3				
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27		admin	IGS-803SM-042	[iPortSpeedMode.3]				
28		admin	IGS-803SM-042	[iPortSpeedMode.4				
29		admin	IGS-803SM-042	[iPortSpeedMode.5				
30		admin	IGS-803SM-042	[iPortSpeedMode.6				

User Activity

2019 v1.0

System 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 Server 2012/2014 Win 7/8/10 (64)
SmartView™ Clients	Intel Core2 or higher processor, 2GB RAM, 20GB HD	JAVA JRE. SmartView™ Kit.	Windows 7/8/10 (64)
All-In-One	Intel Core2 or higher processor, 4GB RAM, 80GB HD	JAVA JRE. MS-SQL Server. SmartView [™] Kit. SmartView [™] Server/Client	Windows Server 2012/2014, Win 7/8/10 (64)
SmartConfig™	Hardware (minimum)	Software	Operating System
SmartConfig™	CPU : 2 GHz or faster Dual core RAM : 1GB, Hard Disc : 1GB	—	Windows 7/8/10

Ordering Information

SmartView[™] EMS Server for industrial product

Model Name	Description
SV2-AGT-50	SmartView™ management software with 50 nodes (by IP address)
SV2-AGT-100	SmartView™ management software with 100 nodes (by IP address)
SV2-AGT-200	SmartView™ management software with 200 nodes (by IP address)
SV2-AGT-500	SmartView™ management software with 500 nodes (by IP address)
SV2-AGT-1000	SmartView™ management software with 1000 nodes (by IP address)
SV2-AGT-1500	SmartView™ management software with 1500 nodes (by IP address)
SV2-AGT-2000	SmartView™ management software with 2000 nodes (by IP address)