

## AlliedView™ NMS Release 15.0

### NETWORK MANAGEMENT SOFTWARE, ENTERPRISE EDITION

AlliedView NMS is a comprehensive network management platform, designed to offer network providers powerful tools for the management of Allied Telesis products and provisioning of multiple services in the IP- and Ethernet-based access network.

With a full suite of provisioning and monitoring tools, AlliedView NMS maximizes operational efficiency by providing proactive diagnostics, minimizing service deployment times and reducing operational expense, shortening the path to profitable revenue.

#### Flexible Management Tools

With extensive management capabilities, AlliedView NMS allows administration of thousands of Allied Telesis network elements from a remote operations center, reducing the need for support to perform diagnostics or make provisioning changes. Via a user-friendly Graphical User Interface (GUI), AlliedView NMS substantially decreases the time required for deploying and provisioning large networks. Among the key strengths of AlliedView NMS is network monitoring and network-wide service provisioning.

#### Architecture Overview

The core components of AlliedView NMS architecture are an integrated server and the distributed user clients.

- Integrated server software performs the core server-side network-facing tasks, such as the discovery of managed objects, receiving and processing event and alarm notifications, data collection, report generation and status polling. All updates to the relations database take place through the server.

#### Key Features

- » Automatic topology discovery and creation of network maps
- » Layer 3 network
- » Layer 2 network
- » VLANs
- » EPSR rings
- » Network inventory
  - » IP networks nodes, cards, ports, physical links
  - » VLANs, VLAN interfaces, EPSR domains
  - » iMG/RG, routers/switches
- » Fault management
  - » Event and alarm notification
  - » System logs and audit trails
- » Performance management
- » Security management
- » Zero touch service provisioning using profiles
  - » Profile creation and management
  - » TR-101 VLAN provisioning models
- » Management and configuration of Ethernet Protection Switching Rings (EPSRing)
- » Creation and management of QoS policies
- » Scripting – enabling flexible updates to CLI text strings
- » Device configuration back-up and restore
- » Firmware and software revision and upgrade management
- » Detection of configuration changes
- » Resource management and status monitoring

- The server software also supports distributed user clients and provides scalability in terms of the number of clients that can be supported. The server performs the following client support:
  - » Interfaces with and channels all client requests.
  - » Generates user client views through database read operations.
  - » Generates alarm and autonomous messaging from the server's database to clients.
- The integrated server code executes in a single physical AlliedView NMS server.
- Distributed clients act as the user interface between the end-users or administrators and AlliedView NMS server. The client interface supported is Java.



#### Network Inventory

AlliedView NMS provides automatic topology and device discovery of networks, regardless of size. It also allows for multiple network and device views where the user can observe the entire network or focus on an individual network device. In addition, AlliedView NMS contains an inventory of different device types and enables views of VLANs, Ethernet Protection Switched Ring (EPSRing™) domains, nodes, cards, network interfaces, ports, intelligent Multiservice Gateways (iMGs), and physical links.

## Zero Touch Service Provisioning

AlliedView NMS uses the DSLForum TR-101 recommended provisioning models for the rapid deployment of multiple services (e.g. Internet access, IPTV video and VoIP telephony) via VLANs and QoS policies across multiple devices using a GUI. Provisioning and rollout of new services and devices are significantly accelerated via the use of profiles for the most common types of services in the network.

By defining a common set of profiles, AlliedView NMS enables multiple services to a subscriber to be provisioned via a single screen. Service providers have the option of selecting the DSLForum – N:1 VLAN per service provisioning model.

## Network Upgrades

AlliedView NMS can perform scheduled or unscheduled network-wide firmware and software upgrades to many Allied Telesis device types. AlliedView NMS maintains control of software releases to ensure all nodes in the network always maintain consistent software loads.

## Southbound Interface

Through the southbound interface, AlliedView NMS communicates with devices via multiple protocols including Simple Network Management Protocol (SNMP) TR069, the device Command Line Interface (CLI) and Trivial File Transfer Protocol (TFTP).

## Scripting

Provisioning network devices requires that many CLI text strings be issued to network devices. The AlliedView NMS administrator does not have to learn or understand what operations are encapsulated by these text strings because the GUI will automatically generate the necessary CLI text for these operations. To further increase the flexibility of the AlliedView NMS, extensive text scripting capability has been added. The CLI scripts can now be dynamically generated and variables substituted using information stored in the database or acquired by AlliedView NMS from the network.

Faults (wsdl)		Inventory (wsdl)	
getTrapParsers		getNodeNames	
getTotalEventsCount		getNetworks	
getEvents		getNodes	
getEventFilters		getCards	
getEventParsers		getPorts	
setEventTarget		getPlInterfaces	
removeEventTarget		getVlanInterfaces	
getEventTargets		getVlans	
getTotalAlertsCount		getPhysicalLinks	
getAlertsCount		getEpsrDomains	
getAlerts		getProfiles	
getAlertFilters		getTasks	
getAlertAnnotation		getInventoryObjects	
getAlertHistory		getDiscoveryProperties	
AdminService (wsdl)		Mdti (wsdl)	
AdminService		getDeviceInfo	
Version (wsdl)			
getVersion			
Provisioning module (Administrator)		Subscriber module	
getDeviceInterfaces		getServices	
getDeviceVlans		updateService	
getRGDeviceDetails			
provisionPort			
deprovisionPort			
modifyPort			
modifyRG			
provisionPorts			
deprovisionPorts			
modifyPorts			
modifyRGs			

## Specifications

### Recommended Server and Platform Requirements

Client: Java 1.16.0\_16 enabled browser: Windows, Linux  
Database: PostgreSQL

### NMS Server

Windows Server 2003 or 2008, Windows 2012\*  
Processor: Intel Xeon dual core 2GHz or equivalent, Intel Xeon quad core 2.4GHz or equivalent  
RAM: 4GB  
Disk: 20GB  
Monitor: 1280 x 1024 resolution

\* Windows Compatibility Mode required

### Client to Communicate with AlliedView NMS 12.2 Client

Windows client  
OS: Windows 2000, 2003, XP, Windows 7, Windows 8  
Processor: 1GHz minimum  
RAM: 1GB  
Monitor: 1280 x 1024 resolution  
Java JRE: 1.5.0\_11  
Browser: Explorer 6.0 and above, Mozilla 1.7 and above (platform independent)

Supported Allied Telesis Devices

iMAPS	iMGS	ALLIEDWARE LAYER 3 SWITCHES	ALLIEDWARE PLUS LAYER 3 SWITCHES	LAYER 2 SWITCHES	ALLIEDWARE ROUTERS
iMAP Express 7101	AR250E	8624T/2M	x510L-28GT	x200-GE-28T	AR130
iMAP Express 7105	RG213	8624POE	x510L-28GP	x200-GE-52T	AR160
iMAP Express 7112	iMG606	8624T	x510L-52GT	x210-16GT	AR250E
MicroMAP 9001	iMG624A	8624/SP	x600-24Ts	x210-24GT	AR260S
MiniMAP 9101	iMG624B	Rapier 24i	x600-24Ts/XP	8000S/16	AR300
MiniMAP 9102	iMG634A	Rapier 24iDCNEBS	x600-24Ts-POE	8000S/24	AR300L
MiniMAP 9103	iMG634B	Rapier 48i	x600-48Ts	8000S/24POE	AR410
iMAP 9400 Series	iMG634W	8824	x600-48Ts/XP	8000S/48	AR415S
iMAP 9700 Series	iMG624-R2	8824DC	x610-24Ts	8000S/48POE	AR440S
iMAP 9810	iMG634-R2	8848	x610-24Ts-POE+	8000GS/24	AR442S
SBx3112	iMG634W-R2	8848DC	x610-24Ts/X	8000GS/24POE	AR450S
	iMG646BD	9812T	x610-24Ts/X-POE+	8000GS/48	AR550S
	iMG646-PX-ON	9812TDC	x610-48Ts	8012M	AR560S
	iMG626MOD	9812TF	x610-48Ts-POE+	8012MQS	AR570S
	iMG646MOD	9816GB	x610-48Ts/X	8016F MT	AR720
	iMG726MOD	SB4104AC	x610-48Ts/X-POE+	8016FSC	AR740
	iMG746MOD	SB4108AC	x610-24SPs/X	8016FST	AR750S
	iBG915FX	SB4108DC	x900-12XT	8016XL	AR725
	iMG1405	9724TS	x900-24XT/S	8024	AR745
	iMG1425	9924SP	x900-24XS	8024M	AR750
	iMG1425RF	9924T	x900-24XT	8024GB	AR770S
	iMG1505	9924T/4SP	x900-24XT-N	8026FC	
	iMG1525	x900-24XT	x930-28GPX	8026T	Others
	iMG1525RF	x900-24XS	x930-28GSTX	8088MT	CentreCOM 8000 Series
	iMG2426	x900-48FE	x930-28GTX	8088SC	CentreCOM 9400 Series
	iMG2426F	x900-48FS	x930-52GPX	8100S/24C	CentreCOM FS Series
	iMG2504		x930-52GTX	8100S/24	CentreCOM GS Series
	iMG2522		SBx908	8100S/48	CentreCOM 9048XL
	iMG2524		8000GS/24	8100S/48POE	
	iMG2524F		8000GS/24POE	8216XL	
	iMG2524H		8000GS/48	8216FXL/SC	
			SBx8112	8216FXL/SMSC	
				8224XL	
				8224SL	
				8300 Series	
				8400 Series	
				8500 Series	
				8600 Series	
				8700 Series	
				8800 Series	
				8948	
				9400 Series	
				FS970M/24C	
				FS970M/24PS	

Ordering Information

AlliedView NMS

Release 15.0, AlliedView NMS server requires License Key

AT-TN-NMS-R15-E

NMS Enterprise server software download.  
Requires License Key at the end of Trial Period

AT-TN-NMS-100E-SK

License Key, NMS support for 100 managed Nodes and 5 NMS Clients

AT-TN-NMS-400E-UK

License Upgrade Key, NMS support for 400 managed Nodes

AT-TN-NMS-500E-SK

License Key, NMS support for 500 managed Nodes and 5 NMS Clients

AT-TN-NMS-500E-UK

License Upgrade Key, NMS support for 500 managed Nodes

AT-TN-NMS-IKE-SK

License Key, NMS support for 1000 managed Nodes and 5 NMS Clients

AT-TN-NMS-5KE-UK

License Upgrade Key, NMS support for 5000 managed Nodes

AT-TN-NMS-10CE-UK

License Upgrade Key, NMS support for 10 Additional NMS Clients

AT-TN-NMS-RAE-UK

License Upgrade Key, Authentication via central Radius Server

Support for Non-Allied Telesis Devices

GenBand-G6

GenBand-G2

OCCAM (discovery/browse/telnet/SSH)

BEC Modems (discovery/browse/telnet/SSH)



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