

NetAtlas EMS

NetAtlas Element Management System

The Zyxel NetAtlas Element Management System (EMS) meets the current and future business requirements of service providers and enterprises by providing a robust management, deployment and provisioning solution designed for Zyxel access network equipment. It enhances the ability to deliver state-of-the-art, profitable IP-based services to customers while improving operating cost efficiency and service levels. Through an intuitive user interface, the NetAtlas EMS eases and accelerates deployment, enables efficient operation of large network environments and streamlines the provisioning process. It also provides fault and element management for devices deployed in the network.

Benefits

Centralized, scalable network management platform

The Zyxel NetAtlas EMS supports a full suite of features for managing Zyxel's MSAN, DSLAM, and GPON E2E solutions such as system management, network configuration, performance monitoring, fault detection and security control. Thanks to the advanced design, remote management becomes simple, efficient and cost-effective through point-and-click operations of the centralized EMS graphical user interface (GUI). This not only simplifies network management and provisioning, but also shortens the time for failure recovery in order to increase network availability.



Tree View and Device View



Centralized, comprehensive management



Intuitive Graphical User Interface (GUI)



Fast system recovering



Up to 300 concurrent remote login clients



Periodical configuration file backup



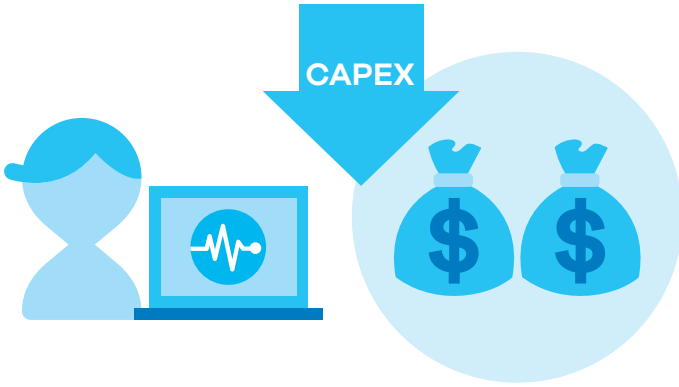
Batch firmware upgrade and service provisioning



XML/SOAP northbound interface supported

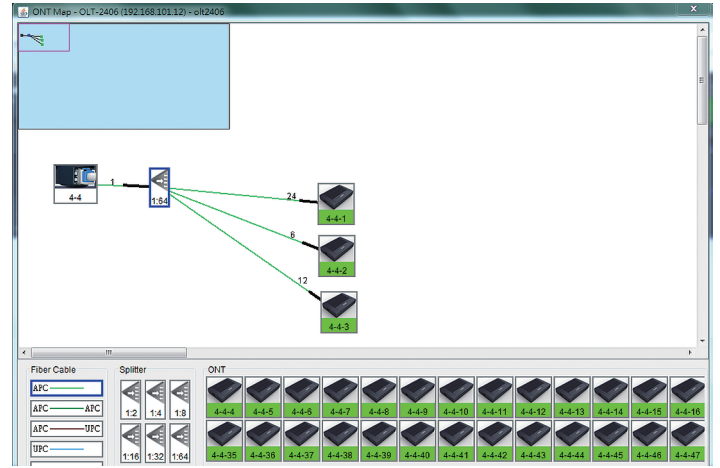
Better network management with less CAPEX

The design of the Zyxel NetAtlas EMS simplifies network management tasks significantly. Networks and systems can be effectively configured, monitored and managed with ease to relieve technical personnel from extra efforts, while the advanced features empower operators with better network management and lower daily operating costs. The Zyxel NetAtlas EMS offers the flexibility to install any PC or server that runs Linux OS to fulfill different levels of reliability required by different application scenarios.



Network-wide visibility

The Zyxel NetAtlas EMS offers a real-time display of devices and network topology, with which a clear network status overview can be presented to system administrators, while users can add new managed devices assisted by the auto-discover function. This is not only very useful when devices are scattered across various locations, but also saves time and expense to minimize network maintenance efforts.



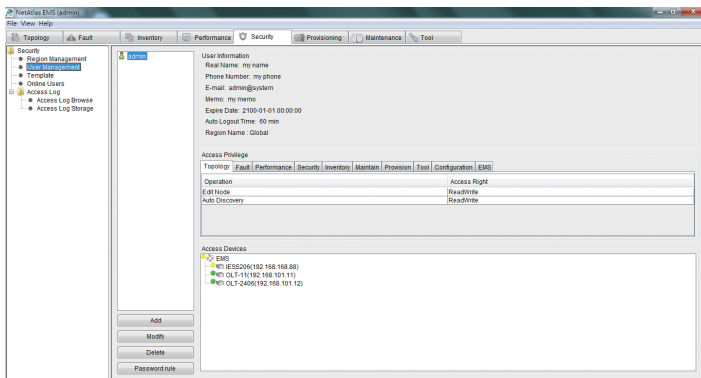
ONT Map and Topology

Complete FCAPS embedded

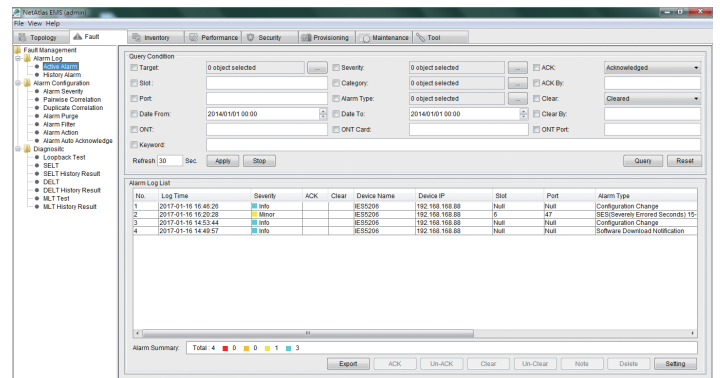
The Zyxel NetAtlas EMS provides various service templates for fast configuration and provisioning. Network status monitoring, performance monitoring and statistics reports are provided for performance management, while alarm/event supervision is for fault management; access control, login control and view-based control are helpful to the security management staff. Accounting management can be performed with information collected by the standard or proprietary MIBs.

Prompt alarm collection and immediate corrections

In order to quickly handle events happened in the field, the Zyxel NetAtlas EMS provides a "global alarm status" window on the view screen. All alarms are categorized and stored according to their severity and they would trigger blinking of the corresponding icons, so operators can be notified of the occurrence and severity of the events. Service providers can specify alarming events according to their operating requirements. Upon receiving these traps, the Zyxel NetAtlas EMS can instantly notify operators by sending E-mail or executing external programs to take immediate actions as well as to shorten system recovery time.



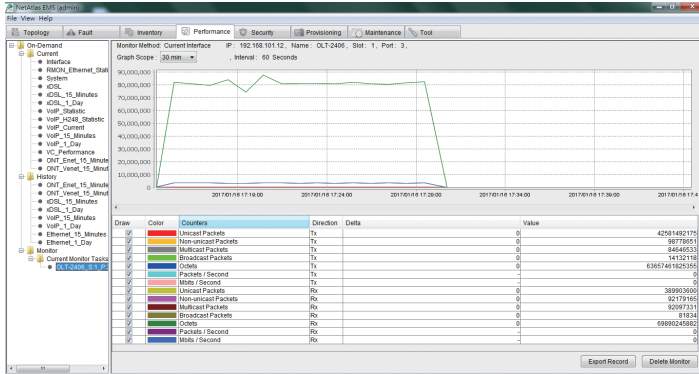
Security Management



Alarm and Event Management

Proactive management for better performance

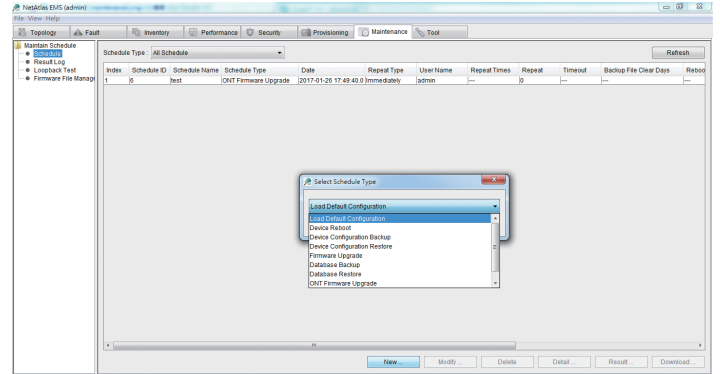
A variety of parameters can be monitored to keep track of networks and systems. The Zyxel NetAtlas EMS provides performance monitoring features that enable service providers to analyze both network and system throughput as well as error rates. The statistical data can be displayed in a graphical format, as such better network performance can be planned and achieved through meticulous error prevention measures.



Performance Monitoring and Statistics Report

Flexible event schedule

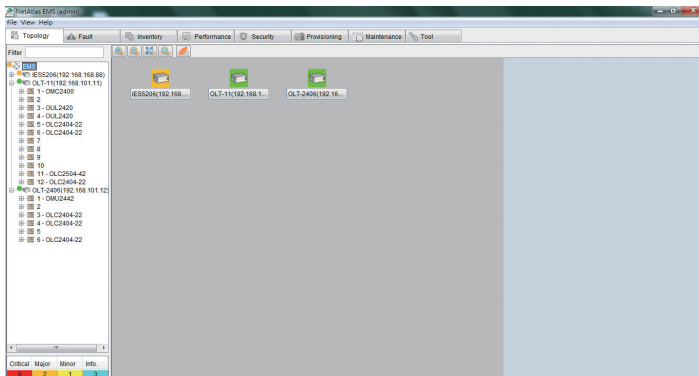
Service provider is able to set specific events such as firmware upgrade, device reboot time and database backup, etc. to improve their service with minimized impact to subscribers. It helps to provide better network service experience to end users.



EMS Maintenance

OSS integration

The Zyxel NetAtlas EMS provides a XML/SOAP-Based interface to interact with external Operations Support Systems (OSS). The integration can be done with the XML/SOAP interface to support the existing OSS/IT infrastructure smoothly. Service providers can reduce their operating expenditure with less on-site manual operations and simplify the operation for access network device management.



Overview

Specifications

System Specifications

Server OS

- Ubuntu Linux 16.04 LTS

Database

- MySQL 5.7.x
- vsftpd 2.3.5
- MySQL client

Client OS

- Windows 7 and above
- Java Runtime Environment 1.7 (jre 1.7)

Performance Specifications

- Able to process 190 alarms per second
- Able to store 1,000K alarm records in alarm history

Managed Devices

- OLT1404A/OLT1408A
- OLT2406
- VES1724-55C/VES1724-56/VES1724-56B2
- IES4005/IES4105
- IES6217/IES5212/IES5206/IES4204
- IES-6000/IES-5106/IES-5112
- GES1116/GES2104

System Requirements

Linux Server

CPU: Intel® Xeon® processor E5-2600 v4 product family

- Memory: 64G DDR3 or above
- Hard disk: 4T with raid 0+1 or above
- Graphic adapter: 1024x768 graphical adapter
- Ethernet interface: 100/1000 Mbps Ethernet adapter
- Manage up to:
 - OLT2406: 2000 nodes
 - OLT1404A: 8000 nodes
 - OLT1408A: 4000 nodes
 - IES4204: 6000 nodes
 - IES5206: 5000 nodes
 - IES5212: 3000 nodes
 - IES6217: 2000 nodes
 - IES4105: 6000 nodes
 - IES4005: 6000 nodes
 - IES-5106: 5000 nodes
 - IES-5112: 3000 nodes
 - IES-6000: 2000 nodes
 - GES2104: 50000 nodes
 - GES1116: 50000 nodes
 - VES1724-55C: 50000 nodes
 - VES1724-56: 50000 nodes
 - VES1724-56B2: 50000 nodes

CPU: Intel® Xeon® processor E5-1600 v4 product family

- Memory: 32G DDR3 or above
- Hard disk: 2T with raid 0+1 or above
- Graphic adapter: 1024x768 graphical adapter
- Ethernet interface: 100/1000 Mbps Ethernet adapter
- Manage up to:
 - OLT2406: 500 nodes
 - OLT1404A: 2000 nodes
 - OLT1408A: 1000 nodes
 - IES4204: 1700 nodes
 - IES5206: 1500 nodes
 - IES5212: 700 nodes
 - IES6217: 500 nodes
 - IES4105: 1700 nodes
 - IES4005: 1700 nodes
 - IES-5106: 1500 nodes
 - IES-5112: 700 nodes
 - IES-6000: 500 nodes
 - GES2104: 15000 nodes
 - GES1116: 15000 nodes
 - VES1724-55C: 15000 nodes
 - VES1724-56: 15000 nodes
 - VES1724-56B2: 15000 nodes

CPU: Intel® Xeon® processor E3-1200 v5 family

- Memory: 16G DDR3 or above
- Hard disk: 2T with raid 0+1 or above
- Graphic adapter: 1024x768 graphical adapter
- Ethernet interface: 100/1000 Mbps Ethernet adapter
- Manage up to:
 - OLT2406: 100 nodes
 - OLT1404A: 400 nodes
 - OLT1408A: 200 nodes
 - IES4204: 400 nodes
 - IES5206: 250 nodes
 - IES5212: 150 nodes
 - IES6217: 100 nodes
 - IES4105: 400 nodes
 - IES4005: 400 nodes
 - IES-5106: 250 nodes
 - IES-5112: 150 nodes
 - IES-6000: 100 nodes
 - GES2104: 2500 nodes
 - GES1116: 2500 nodes
 - VES1724-55C: 2500 nodes
 - VES1724-56: 2500 nodes
 - VES1724-56B2: 2500 nodes

Client

- CPU: Intel® Core™ 2 Quad/Core™ 2 Duo or higher
- Memory: 8 GB DDR3 or above
- Hard disk: 500 GB or above
- Graphic adapter: 1024x768 graphical adapter
- Ethernet interface: 100/1000 Mbps Ethernet adapter

Support List

GPON

- IES6217/IES5212/IES5206/IES4204
- OLT2406
- OLT1404A/OLT1408A

BOX MSAN

- GES1116/GES2104
- VES1724-55C/VES1724-56/VES1724-56B2

MSAN Chassis:

IES4204/IES5206/IES5212/IES6217

- MSC1240XA
- MSC1280XA
- MSC1240QA
- VLC1448X-53/VLC1448X-51S/VLC1448X-51
- VEC1001X
- OLC3416-42A
- GLC1440X-55A

MSAN Chassis:

IES-5106/IES-5112/IES-6000

- MSC1024GC (SIP/H.248)
- MSC1024GB/MS1224GB
- ALC1348G-51C (SIP/H.248)
- ALC1372G-51
- VOP1372G-61 (SIP/H.248)
- VLC1424G-56
- VLC1324G-51/VLC1324G-53
- VLC1348G-51/VLC1348G-53

MSAN Chassis: IES4005

- MSC1002G
- ALC1132G-51
- VLC1132G-51
- VOP1164G-61

MSAN Chassis: IES4105

- MSC1002GA
- ALC1132A-51
- VLC1124A-51
- VOP1164A-61
- ELC1132A-45

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