

90000-5x

Advanced NMS Release Notes

Document version: 1.00
Release Date: May 6th, 2020
Type of Release: Production Release

Lentronics Multiplexers

For SONET/SDH Multiplexers & T1/E1 Multiplexers

Lentronics JunglePAX Platform

JunglePAX MPLS Platform

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RELEASE SUMMARY

PRODUCT/COMPONENT

- Software Version: 8.0.3 for Appliance (host server) & Client
- 90000-5x Advanced NMS Licenses (for JunglePAX)
 - 90000-50, Standard NMS license per Network Element
 - 90000-51, Standard (High Availability) NMS license per Network Element
 - 90000-50/G, GOLD NMS license per Network Element
 - 90000-51/G, GOLD (High Availability) NMS license per Network Element
- 86456-7x Advanced NMS Licenses (for Lentrionics Multiplexers)

REQUIREMENTS

- VistaNET version 5.10+ is a required software component for Multiplexer products. VistaNET can be downloaded from GE's website <http://www.gegridsolutions.com/communications/Multiplexers.asp>
- JunglePAX firmware package version 1.14a
- CentOS version 7 for the Host Server (NMS Appliance)
- Windows 10 for the NMS Client (Client)

DOCUMENTATION CONTROL

Version 1.00	Production Release	April 30th, 2020
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RELEASE DETAILS

NEW FEATURES

GE's release of the Advanced Network Management System (NMS) software is now available for Lentronics Multiplexers and GE's newest Hybrid MPLS & SONET/SDH JunglePAX platform. This version provides like-for-like functionality for managing Lentronics Multiplexers as the previous version 7.4.2 however offers Service and Tunnel building for the JunglePAX platform.

Please refer to GE's Advanced_NMS_User's_Guide for more details.

Version 8.0.3 of the Advanced NMS Appliance (Host Server) is typically installed on a Virtual Machine running within Linux (v7) and connected over a secure network to the Utilities Optical Communications Network (MUX or JPAX). This appliance is connected to GE's VistaNET NMS platform to manage Lentronics Multiplexers via the SNMP protocol, while connecting to a Primary and/or Secondary JunglePAX Gateway node(s) via the Netconf protocol.

One user seat is offered by default. Customers needing support for concurrent users have the option of purchasing additional RTU seat licenses.

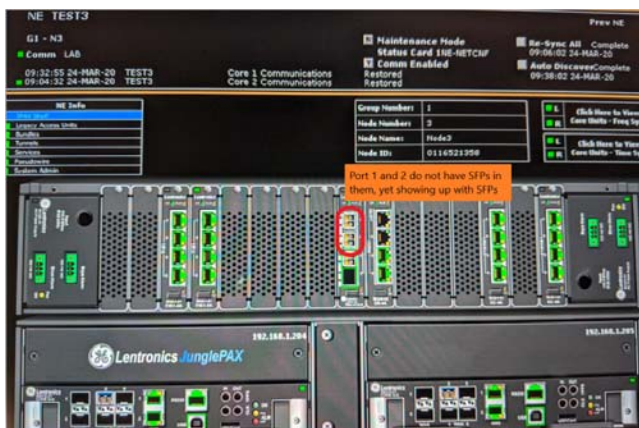
Advanced NMS client(s) are installed on customers laptops with Windows 10 OS.

ENGINEERING RULES

VistaNET version 5.10 or newer is required and licensed with VistaNET SNMP (p/n 86456-51, 1 license per system) to manage Multiplexer alarms (Traps, Active and Cleared alarm tables). VistaNET Traffic Manager right-to-use licenses (p/n 86456-21, 1 license per node) can be optionally added to additionally manage Physical & Logical Entities, Performance Monitoring, Activity Logs and other general information.

LIMITATIONS

1. Support to build VTUs (SONET VT and SDH TU-12s) is not supported in this software. Upgrade to software version 8.2 is required.
2. When moving SFPs between different IEEE C37.94 Card ports (e.g. removing from port 1 and placing into port 2) will incorrectly show both old and new ports having SFPs equipped in the GSM graphical view (GE-72).





SOFTWARE UPGRADE PROCEDURE

To migrate the existing NMS environment from version 7.4.2 to version 8.0.3, GE will create a new VM and install CentOS 7 and NMS version 8.0.3.

This “Software Upgrade Procedure” will install a blank database where all history (alarm, pm, attribute, user changes, policies, etc.) has been discarded. The Bulk Import/Export and Policy Manager applications will be used to export data (NEs, Sites, Users, Policies, etc.) from your NMS version 7.4.2 database and import it to your new NMS version 8.0.3 database. Refer to the appropriate chapters of the Telenium System Administration documentation for instructions to perform the export and import of data and policies (Chapter 10 Policy Manager and Chapter 26 Telenium Power Tools).

Upgrade requirements

1. A customer resource with access to, and administrator rights on the VM Host server. This access can be remote but should be able to go to the location of the server in a timely manner if hands on intervention is required.
2. GE will require access to a customers’ Windows desktop with the following software installed:
 - Appliance v8.x.x (must be the matching version purchased by the customer).
 - WinSCP
 - Putty
3. The Windows desktop must be able to access the VM Host server as GE requires access to the built-in console of the VM Host Software to install CentOS 7 on the VM. This desktop must also be able to access the VM once CentOS 7 has been installed and an IP assigned to the VM.
4. The new VM must be able to access the existing software Appliance via the network if the databases are being migrated from the existing Appliance to the new v8.0.3 Appliance.
5. Download the latest CentOS 7 ISO from http://isoredirect.centos.org/centos/7/isos/x86_64/ and have that ISO file available on the Windows desktop that GE will have access to.
6. The VM will need access to the following URLs to complete the CentOS install. This access can be via the internet or from a standalone/offline mirror repository that is maintained by the customer:
 - CentOS
 - http://mirror.centos.org/centos/7/os/x86_64/
 - http://mirror.centos.org/centos/7/extras/x86_64/
 - http://mirror.centos.org/centos/7/updates/x86_64/
 - EPEL
 - <http://dl.fedoraproject.org/pub/epel/7/>
 - MySQL-8.0



http://repo.mysql.com/yum/mysql-8.0-community/el/7/x86_64/

- Percona-release-x86_64

http://repo.percona.com/percona/yum/release/7/RPMS/x86_64/

- Microsoft dotNET

<http://packages.microsoft.com/rhel/7/prod/>

7. The VM will need access to a repository to complete the installation of the v8 Appliance. This access can be via the internet (SSH or HTTP connection to ssh.megasys.com) or via a standalone repository that has been pre-downloaded and copied to the Windows desktop GE will have access to.

CONTACTS

For additional details or technical assistance, you may contact:

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