



Hardened Optical Networks Critical Communications Solutions e-Advisory

Q1 2017



Greetings and welcome to the first Lentronics e-Advisory for 2017, intended to provide you, our customers and trusted partners with product updates affecting Lentronics Multiplexers and our JunglePAX Label switched platform. Regardless of the chosen technology, our business remains focused on delivering and supporting reliable and capable communications solutions for our industrial markets. You all play an important role as trusted advisors in this process, and for that, we thank you for your continued support.

As I reflect on our business legacy and in conversations with some of you during our 2016 regional technical conference series, I feel it's important to highlight some key factors driving our current investment and product strategy.

- Continue to protect core SONET/SDH technologies for many years to come,
- Jointly develop evolution strategies with stakeholder that meet their Key Performance requirements,
- Further develop best in class customer service to improve product lifecycle support,
- Be proactive to ensure system reliability; making available GE professional services to annually assess the network health and perform recommended firmware and software upgrades; that security is challenged and strengthened; and network-wide configuration accuracy validated,
- Expand equipment management functionality that targets improved operational effectiveness and efficiency.

I'd be more than happy to further discuss in detail GE's ongoing product strategy across our extensive collection of modules, paddleboards, cables, firmware and software solutions.

Best regards,

Adam Nicholls, Product Line Leader, Hardened Optical Networks, GE Automation and Control

JungleMUX/JunglePAX Technical Conference (JTC)

The planning for this year's event is already underway, and with help from your executive committee, a 'Save-the-date' email will soon be released announcing this year's conference. To aid in your initial planning and travel justification, the event will be in the Chicago IL area, sufficiently close to both Chicago's O'Hare International airport and our utility host this year, Commonwealth Edison, an Exelon company.

Event Dates: Arrival October 14th/15th, with a planned networking event on Sunday Oct 15th. The technical conference will run for three days, commencing Monday October 16th through noon Wednesday Oct 18th.

This, our 19th annual technical conference will be naturally open to GE MUX/PAX users but also to Consultants, Resellers, System integrators and Engineering Procurement Consultants who in partnership with GE, delivery solutions that solve critical communication challenges.

There will be a nominal fee to attend this year's conference.



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New Product Release Notes and Advisories available for download

New documents have been added to our website and are available for download.

- VistaNET version 5.10 Release notes
- VistaNET version 5.10 software and LENTRONICS-ACTIVITY-LOG-MIB.mib

JMUX or TN1U/Ue Application Notes (JAN/TAN), along with Release Notes (RN) and Product Advisories (PA) are separate document categories released to our website that communicate important issues affecting JungleMUX and TN1U/Ue Multiplexers.

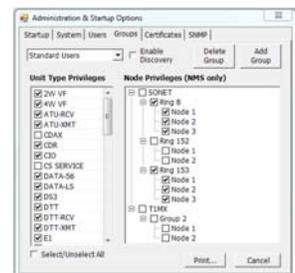
Product Advisories can be found [here](#) and Application notes [here](#)

New Product Releases

- **VistaNET version 5.10**, is available for download through GE's grid solution website <http://www.gegridsolutions.com/communications/Multiplexers.asp>. This is a software upgrade for customers already running VistaNET 5.04 or above, that provides **expanded SNMP functionality** for VistaNET's activity logs, **Deny by Default user Authorization** (configuration), new start-up options, **T1MX/E1MX scan control**, Controlling **Synchronization & VSA network adaptors**, changes to the serial window and number of serial ports, and reinstates the terminal window support for customers using modems to connect.

VistaNET Activity Log MIBs are also now available for download. SNMP user can now integrate Lentronics Multiplexer activity logs to centralize the logging of configuration changes, addition/deletion or modification to user accounts, discovery requests and inventory deletion.

Denying unit configuration by default is an important improvement now available within VistaNET 5.10. All previous versions of VistaNET used positive logic to enforce write restrictions, that is, users were granted write access by default. Now VistaNET 5.10 denies unit configuration by default, requiring administrators to specifically grant permissions else write restrictions are enforced. After upgrading to this version, previously defined 'Configuration restrictions' will be converted to 'Configuration Permissions'.



- This build includes a number of **fixes** to customer reported issues, in particularly ticket #1080 affecting the VistaNET alarm engine, "Network tree does not paint red when an alarm comes after a rediscover in alarm state of the node". A full list of fixed deficiencies can be found in the VistaNET 5.10 release notes.



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New Product Releases (continued)

- **VistaNET Advance Network Management (86456-7x & -7x/G)**, offered through a cooperative partnership between GE and Megasys Computer Technologies and is now available for purchase. Megasys 'Copper' for GE Grid Solution products is available in a Standard or Gold version, with the Gold solution offering 'Email and Escalation, Smart Scripting and Advanced Logic controller.

- **JunglePAX CORE unit firmware version 1.09ER** is available, supporting both 1+1 and 1:1 protection for VPWS and 1:1 protection for VPLS services. Updates to the embedded management system (eMS) are also supported with this firmware.

An expanded network of JunglePAX units supporting the updated VPLS protection switching solution is currently set up in both GE's Center of Excellence (Markham ON) and in our Burnaby BC design center. Please contact your sales manager if you'd like to schedule some time with our design team in our Burnaby BC location.



- **OC-48 Bypass cable** (P/N 135-86419-90) with 90 degree RJ45 is now available for order through GE's online store. This cable replaces the 135-86419-01 bypass cable that was found to cause bypass errors when the cable was physically stressed.
- **RoHS Common shelf for TN1Ue** users is now available (P/N B86430-41), providing the same fit, form and function as the existing common shelf (P/N B86430-28), which will additional remain available to order.
- **2017 Wurldtech Achilles Level 1 Certification** issued for GE's Cyber Secured Service Unit (CSSU), in secured mode was completed in Q1 certifying the robustness of the CSSU-S device against a variety of Ethernet and TCP/IP cyber attacks. There were no reproducible anomalies found during this level 1 certification.
Note to customer: The legacy Service Unit, Xport PB or CSSU in Legacy mode are not considered Secure devices.
- **Professional Support Services** have been repositioned to provide support and assistance with everything from Network Analysis to Network Implementation. Tiers of services are now available, including
 - Engineering Services: Network Audit & Analysis, and Design
 - Factory Services: Order Engineering, System Assembly & test, and Customer Witness Test
 - Field & Education Services: On-site support for commissioning, troubleshooting & maintenance
 - Technical Support
 - Basic: Giving you what you need
 - Silver: Annual Preventative Maintenance and Training workshops
 - Platinum: 24/7 support, Dedicated 1-800 #, Product certification training

Special thanks to our customers who provided their valuable input on this topic during the 2016 regional JTC series. Your suggestions have culminated in a new set of offerings targeting overall network reliability.



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Online Store for Lენტronics Multiplexers

GE's 'Online Store' (OLS) is available now **across all regions** and to all Lენტronics customers for a number of online order tasks including

- Order Entry
- Order Status (even for orders not placed through the OLS),
- Order Tracking and tracking numbers,
- Invoice copies,
- Price and lead-time,



Visit <http://store.gedigitalenergy.com/Home.aspx> to access this online store portal. A username and password is required to access the site. For new customers or for those who have not used the OLS site, GE's inside sales team will coordinate the setup of new user accounts as well as training sessions. Please send your request to access the online store to Sales.gridolutionsap@ge.com stating your name and contact information, your company's name, and customer account number if you have it.

If you've ordered other GE products and services through this online portal, then your existing account can be modified for ordering Lენტronics equipment. Email the above address to have Lენტronics products added to your online store profile. To order, select 'Industrial Communication', then 'Lენტronics Parts' from the main menu, then 'Buy now' for the desired ordering category. Sub-categories can be selected to further refine the search.

Learning and Development – YouTube Channel

Visit GE's Learning and Development [YouTube channel](#) to gain access to a wide array of educational videos, including 4 new MPLS technical seminars, designed to guide you through the complexity of modern packet networking, **are now available**.

Ultimately the training series will include instructional videos on how to perform typical network management tasks associated with GE's JunglePAX converged communications platform.



'Passport' enabled Website

Customer access to **GE Lენტronics private website** will be authenticated through a GE Passport. Existing logon credentials to www.jmux.com or www.tn1u.com will be replaced by the passport.

Subscriptions will be additionally available via the updated website. Users can 'subscribe' to release information that's of interest to you, perhaps VistaNET upgrades, new user manuals or updated firmware.





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Around the Corner

- Customer access to **GE LENTRONICS private website** will be authenticated through a GE Passport shortly. Existing logon credentials to www.jmux.com or www.tn1u.com will be replaced by the passport. Apply for your GE Passport today by visiting the "Resources" page within GE Grid Solutions website <http://www.gegridsolutions.com/Passport/Login.aspx>
- **Visit GE Grid Solutions at UTC**, Charlotte Convention Center, North Carolina, Wednesday May 10th – Thursday May 11th, Booth 617. Please join us.
- **2nd generation Direct Transfer Trip unit (B86441-42)** for TN1Ue and E1MXe product lines is expected at the end of Q2, 2017.
- **NMX unit firmware** upgraded with **Secured Socket Layer (SSL)**, and now supporting T1MX products, expected Q2 2017. NMX units are used within the T1MX Multiplexers to provide secure Ethernet connectivity into VistaNET.
- A 2nd generation **Orderwire Unit**, is currently under development providing the same fit, form and function at the current unit. The current Orderwire unit will be replaced in Q3 2017 due to component obsolescence.
- **Nx64 Ethernet Paddleboard** with integrated Layer-2 Ethernet switch for inter-node packet bridging that conserves 64k channels, will be available in 2H 2017.
- **130VDC/120VAC 30W Power Supply** for the Multiplexers, and a **120/240VAC Power Supply for JPAX** have targeted releases in Q4 2017.

Missed an e-blast?

All advisories are now stored on GE's LENTRONICS website. Additionally the site now includes information to up-and-coming events like the JTC Technical Conference, previous JTC presentations, RMA (return material authorization) data as well as Product "Advisories", where all application notes, firmware lists and previous released e-blasts can be retrieved.

Still have questions? You can always contact your LENTRONICS Regional Sales Manager, our Burnaby Customer Services Team at 604-421-8610 or visit <http://www.gegridsolutions.com/communications/opticalnetworks.htm>

Current firmware list at http://www.gegridsolutions.com/Communications/Lentronics/Advisories_Firmware.asp

Pre-Sales inquiries, Product information and pricing: INDC.MDSInsideSales@ge.com

Post-Sales support, Technical Support, Field Services & training: Lentronics.techservices@ge.com, 604.421.8610

Order Entry, Order Management: Sales.gridsolutionsap@ge.com, 1.800.547.8629, option 1

Return Material authorization (RMA), Credit returns, Warranty: Multilin.tech@ge.com, 1.800.547.8629, option 3, or via http://www.gegridsolutions.com/multilin/support/ret_proc.htm. Status of an existing RMA can be checked here <https://store.gedigitalenergy.com/PSSPortal/RMAStatus.aspx>