CACEIS

SECURE GIGABIT CONNECTIVITY TO ANY LOCATION



OVER ANY WIRELINE MEDIUM

COPYTIGHT & ZUZU ACTENS NETWORKS









JITC Certified

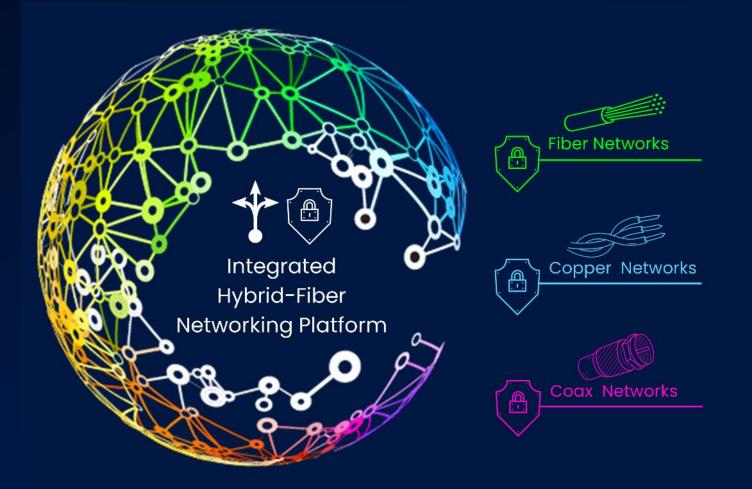
ACTELIS HYBRID-FIBER, CYBER-HARDENED NETWORKING SOLUTIONS ARE LISTED ON THE DODIN APPROVED PRODUCTS LIST (APL)

TN # IS 23039011

The Actelis solution is the only technology of its kind found on the DoDIN APL, giving the military a cost-effective way to rapidly implement and connect IoT devices and applications at fiber-grade, utilizing any existing wires, fiber or coax, in just hours compared to weeks or months.



INTEGRATED HYBRID-FIBER NETWORK: SCALABLE, FLEXIBLE, SECURE



FIBER WHEN AVAILABLE, GIGABIT COPPER/COAX WHEN NOT

Actelis provides a single platform that brings your existing legacy infrastructure together with your growing network of new fiber installations, into one, secure Gigabit network.

Our platform, from our networking devices to our management system, is cyberhardened, helping to protect your critical applications from cyber attacks.





Ethernet Aggregation Switches, MTU Solutions

Point-to-Multi-Point Ethernet Aggregation platforms – Hybrid Copper-Fiber



Optical Hardened Switches 10G and 1G L2/L3 managed switches.



Ethernet Access Devices & Industrial Switches

Managed switches, Hybrid Copper-Fiber



Reach & Rate Extenders

BBA

XR239

Repeaters and DSL Broadband amplifiers, Over copper



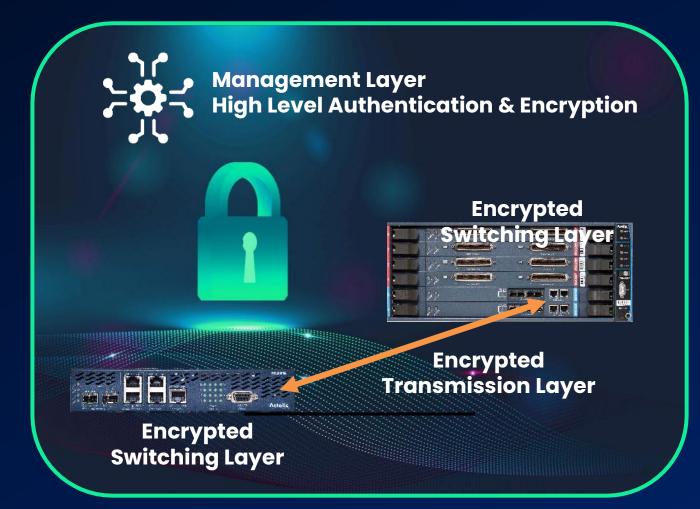


MetaASSIST EMS





CYBER HARDENED SOLUTIONS FOR YOURMISSION CRITICAL APPLICATIONS



END TO END ENCRYPTION

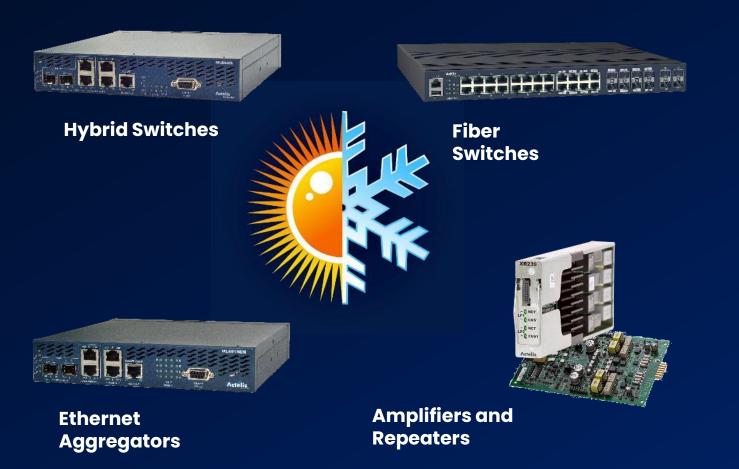
Keeping your network safe from cyberhacking or denial of service attacks is a key focus for Actelis.

We provide **"Triple Shield Protection"** – three levels of network protection encrypting your data at the transmission level, device level, and management level.



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BUILT FOR EXTREME TEMPERATURES

Actelis equipment is designed for outdoor or indoor use and is proven in over 40 countries in some of the world's harshest climates. You can find Actelis devices in the bitter cold of Alaska and Canada, the extreme heat of Arizona, and the damp humidity of Florida.



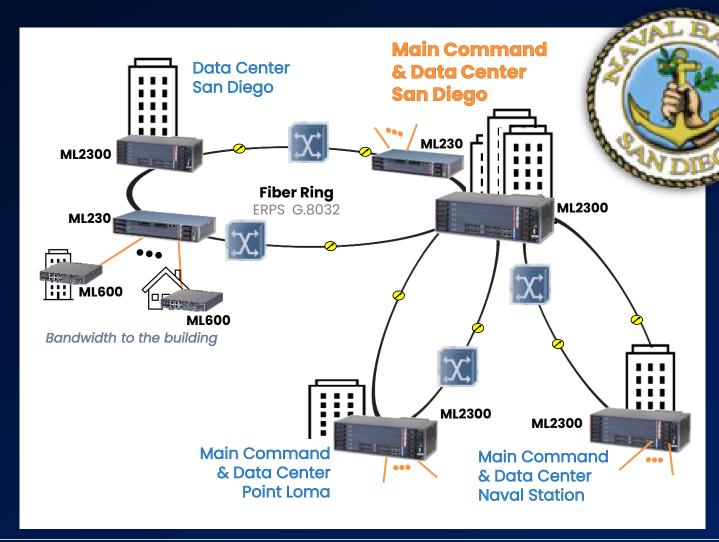
MILITARY APPLICATIONS

Actelis Solutions for Hybrid Networks – Over Fiber, Copper or Coax

- Base Modernization
- TDM/T1 Replacement
- Migration to VoIP
- High Speed Ethernet
 Connectivity
- BW to the Building
- Backhaul Application
- HVAC Monitoring
- Alarm Circuit 'On Network'
- CAMPUS Replacement



ONE NETWORK, ONE PLATFORM - SAN DIEGO ETHERNET & FIBER RINGS

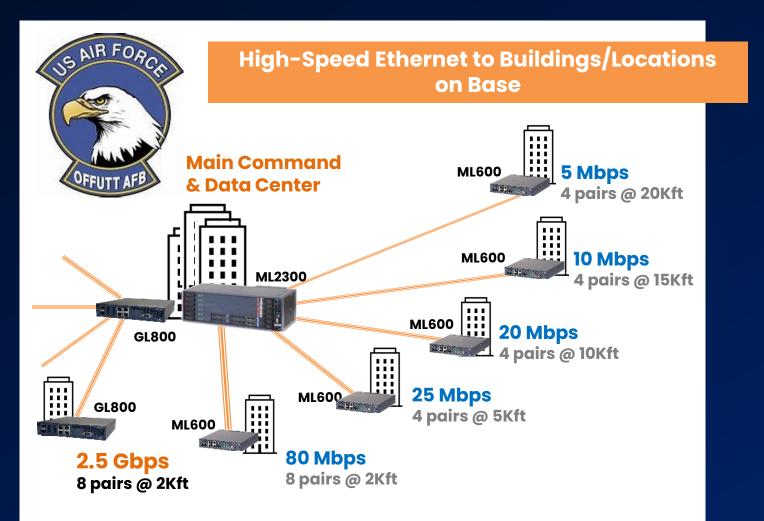


ACTELIS ML/GL PORTFOLIO FOR ALL DATA NETWORKS ACROSS THE BASE & BETWEEN BASES

- Hybrid fiber Networks utilizing the existing fiber & copper
- Enhanced in-Base Applications
 - Ethernet Services
 - VOIP
 - Campus replacement
 - T1 Replacement



HIGH SPEED ETHERNET - OFFUTT AFB ENHANCED CONNECTIVITY TO BUILDING ON CAMPUS



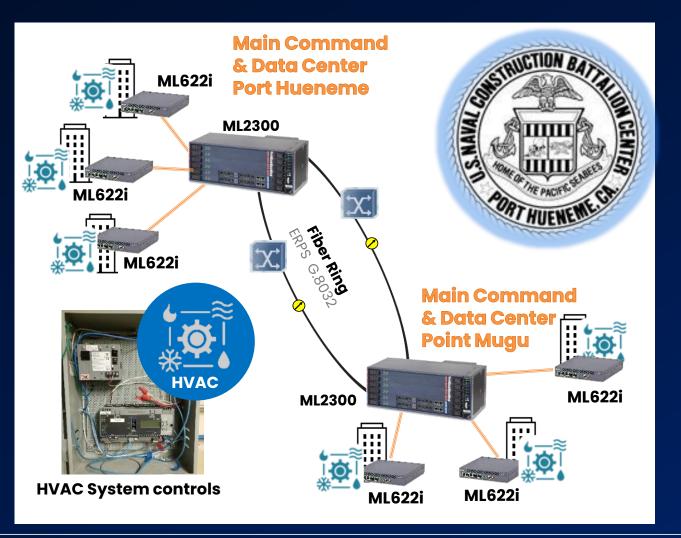
BASE MODERNIZATION - RELIABLE AND ROBUST COMMUNICATION WITH ACTELIS SOLUTIONS

- Actelis has been an integral part of the OFFUTT communication network for many years
- Actelis solutions utilize the existing infrastructure to offer higher bandwidth, resilient and cyberhardened connectivity from 5 Mbps and up to 2.5Gbps over bonded copper



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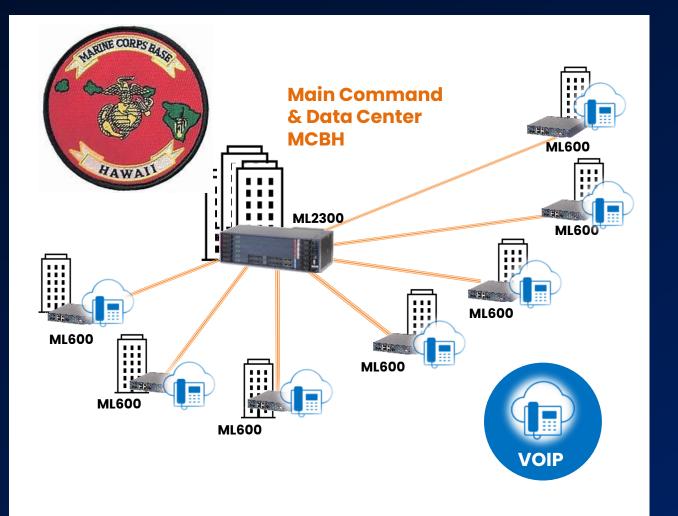
GETTING THE HVAC 'ON NETWORK' INSTANTLY, EFFICIENTLY AND COST-EFFECTIVELY

HVAC Monitoring Benefits:

- Energy Efficiency Reduces energy waste and lowers costs.
- Preventative Maintenance Detects early system issues, preventing failures.
- **Air Quality** Ensures proper ventilation and filtration.
- Smart Optimization Uses analytics to enhance performance and comfort.



BASE MODERNIZATION VOIP PROJECT – MCBH



80 VOIP LOCATIONS USING THE EXISTING COPPER INFRASTRUCTURE

The original plan was to use Fiber to connect all 80 locations for VoIP.

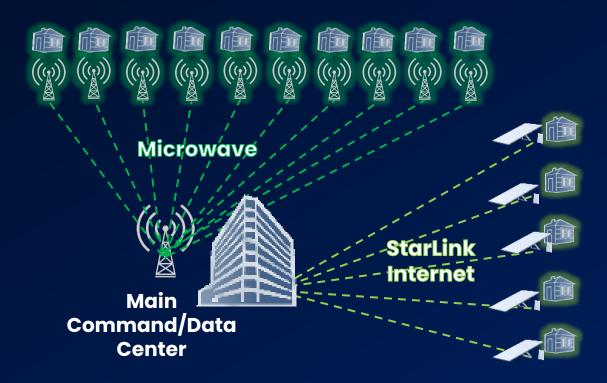
The project would have cost **Million+** dollars and take **over a year to complete**

The Actelis solution **costs 500K** deployable in **three months**



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BELIEVE IT OR NOT - MILITARY WASTE

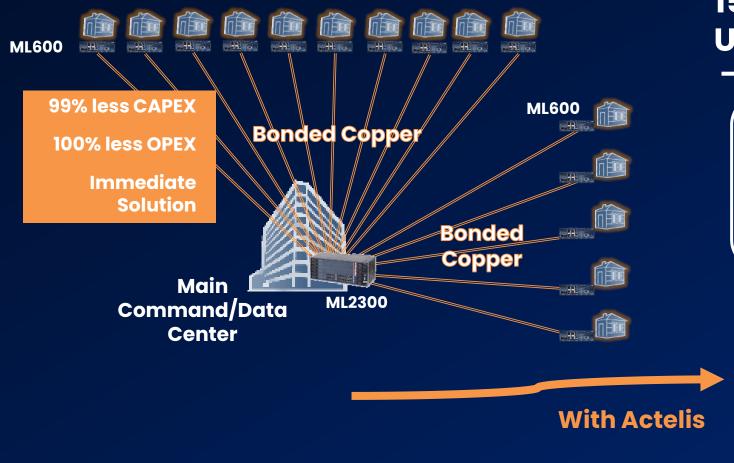


15 SENSORS USING LESS THEN A MEG EACH

- 10 separate Microwave connections, Reoccurring yearly cost
- 5 StarLink connection to the internet, reoccurring monthly cost (\$5K/location)
- 8 months to a year to install
- Estimated, 2.1 million dollars Installation only (CAPEX only)



BELIEVE IT OR NOT – MILITARY WASTE WHAT COULD HAVE BEEN



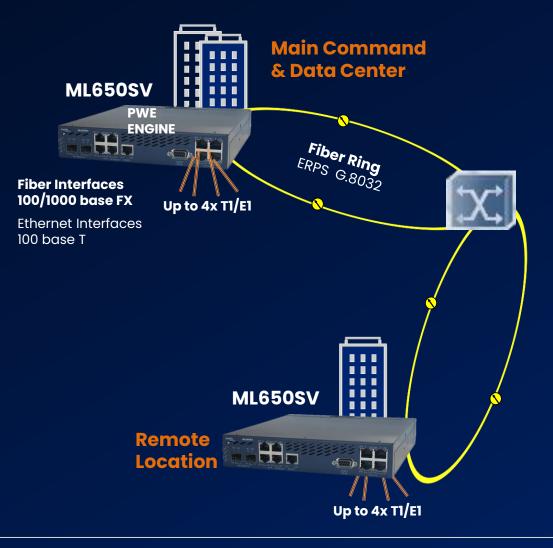
15 SENSORS USING LESS THEN A MEG EACH



- 5 Star Link connection to the internet
- **<u>8 months</u>** to a year to install
- Estimated, <u>2.1 million dollars to install</u>
 - 15x 2-Wire modems, existing infrastructure
 - <u>2 weeks</u> to install
- Estimated, <u>30K</u>



SEAMLESS T1/E1 MIGRATION TO FIBER BASED PACKET SWITCHED NETWORKS WITH ML650SV



SEAMLESSLY INTEGRATION OF TDM & ETHERNET/IP SERVICES INTO A SINGLE, COST-EFFECTIVE PLATFORM WITH BUILT-IN PSEUDOWIRE EMULATION (PWE) CAPABILITIES.

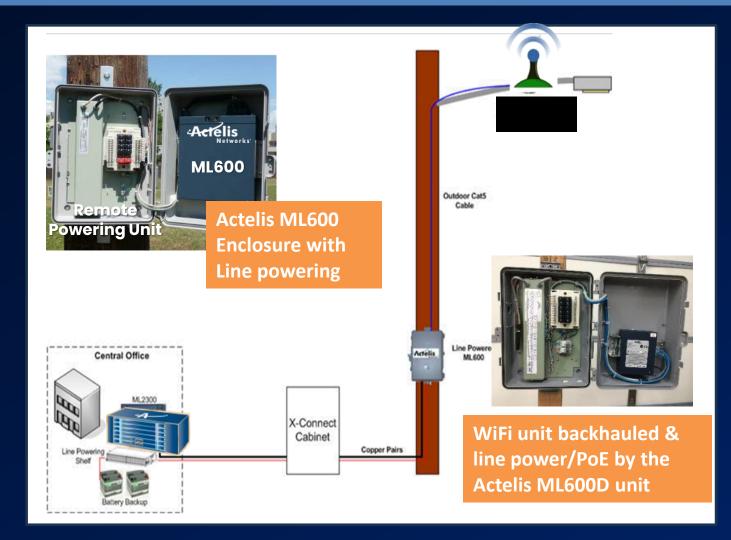
Key Benefits:

- Legacy Equipment Support: Ensures compatibility with essential existing E1/T1 systems.
- Efficiency & Cost Savings: A single-unit solution that reduces both CAPEX and OPEX while streamlining operations.
- Comprehensive Circuit Emulation Support including CESOETH (MEF 8), CESOPSN, & SATOP.
- **Carrier-Grade, Compact Design** Delivering robust performance in demanding environments.



WIFI BACKHAULING ON POLE, STRAND MOUNT





OUTDOOR OPTIMIZED DEPLOYMENT OF WIFI HOT SPOTS Where you need it, and not where you can - by using bonded copper

- Cost optimized Location, Power
- High Bandwidth
- Remote power feeding for backhaul & WiFi equipment
- Integrated in Actelis self-contained enclosure





Actelis has the solutions

Multiple Links

GigaLine 800

GL800 enables Gigabit to the MTU over existing wires if Fiber is not available

GigaLine 900 enables Gigabit, Fiber-Grade connectivity in buildings, utilizing existing twisted pairs and/or Coax infrastructure, to offer **Instant 1G services.**





INSTANT 1G TO MULTI-TENANT UNITS USE CASE #1 – BONDED COOPER AS BACKHAUL

2.5 Gbps

To the building with

• Fiber to the cabinet

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- Fiber extension over existing copper wires to the building
- Gigabit throughout the building over existing wires twisted pair/Coax No rewiring.

GigaLine 800

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- Up to 16 tenants per GL900
- Very Low power consumption 5W



GigaLine 800

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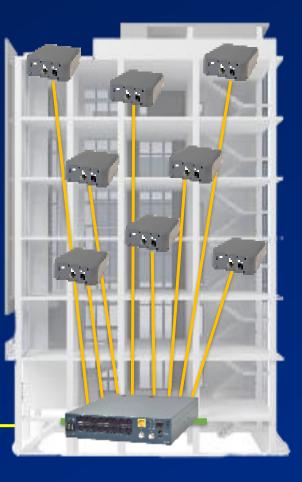
GigaLine 900

INSTANT 1G TO MULTI-TENANT UNITS USE CASE #2 – FIBER AS BACKHAUL

2.5 Gbps

- Fiber to the building
- Gigabit throughout the building over existing wiring twisted pair/Coax. No rewiring is needed.
- Up to 16 tenants per GL900
- Very Low power consumption 5W

1 Gbps Throughout the building with GL900







Applying the Science of Networking

'CAMPUS' REPLACEMENT

PairGain / ADC 'CAMPUS' Replacement Tech Refresh Initiative With Actelis Smart Base Solution



Manufactured Discontinued Products



PairGain Campus Star







Cisco LRE

Primary Reasons for Replacing with Actelis

- Significantly Higher Performance
 Actelis offers up to 25× throughput
- Unmatched Reliability
 Actelis Provides fiber-like uptime, maintaining service even during multiple failures.
 - Higher Density
 Actelis Supports 20× more copper pairs per rack unit, optimizing space and capacity
- Flexible Deployment
 Actelis solutions fit diverse installation needs, budgets, topologies, and interfaces.
- Power and Data on the Same Lines
 - Actelis delivers both power & data over coppersupporting remote devices like WiFi AP/cameras.

Actelis solution

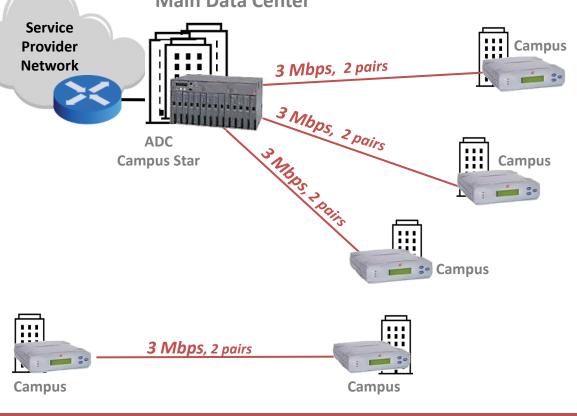
An Acknowledged leading provider to the military for over 25 years





► BASE CONNECTIVITY USING 'CAMPUS' → HINDERING SMART BASE MODERNIZATION

Base Connectivity Using Campus (Pairgain/ADC) Main Data Center



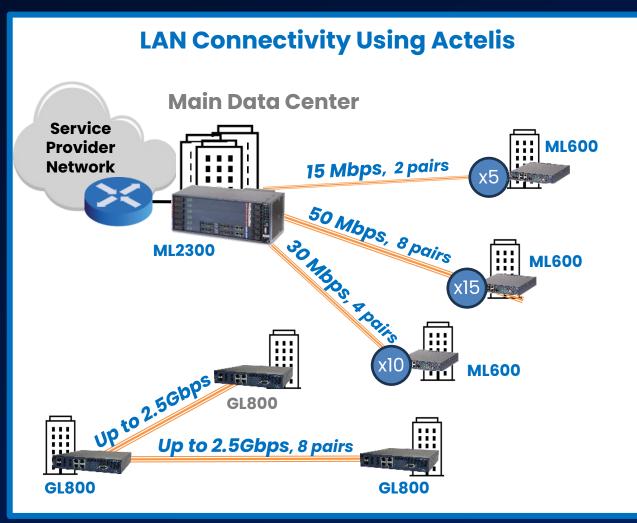
• CAMPUS main limitations :

- Aging Infrastructure Rely on outdated technology prone to failure, with no viable replacement options.
- Insufficient Bandwidth Offer very low bandwidth, failing to meet the high-speed connectivity demands of modern smart bases.
- Unreliable Performance Struggle with service continuity, leading to frequent disruptions and reduced operational efficiency.
- Integration Issues Legacy competitor equipment lacks compatibility with modern Ethernet switches and devices, delaying deployments and increasing costs.



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SMART BASE LAN CONNECTIVITY USING ACTELIS



Actelis solutions

- Instant 10x faster connectivity
- Extremely high reliability and connectivity availability
- Significant scale and growth opportunity
 - Up to 100 Mbps with Actelis ML600
 - Up to 2.5 Gbps with new GL800
- Easy replacement Same form

Actelis is the sole DSL solution approved by the DoD



Actelis Hybrid-Fiber, Cyber-Hardened Networking Solutions deliver significantly superior modernization by maximizing your existing infrastructure. This ensures:

DRASTICALLY LOWER COSTS – Achieve major savings on CAPEX and OPEX

RADICALLY FASTER DEPLOYMENT – Upgrade in a fraction of the time.

EXCEPTIONALLY EASY MIGRATION – Transition smoothly with minimal effort & disruption.

Actelis is the ONLY copper (DSL) solution approved by the DoD - TN # 23039011



Thank You!

Doug Nelson dnelson@actelis.com 951-966-7732

