Lowest Total Cost of Ownership with High Performance

- Full control over Network Coverage Area
- Full control over Quality of Communication Services
- Cyber Security Protection Mechanisms
- Redundancy through multiple communication paths
- Self-healing communication network
- Integration of Distributed Power Generation and Storage
- Low maintenance and operation costs over the long term, resulting in more savings for the end energy consumers
- Independent of quick-to-be-obsolete Cellular technologies — Designed for utility equipment lifecycles
- Utility-grade hardware
- Supports Modbus DNP3, IEC61850, CIM/DDS, etc.

Benefits of the Trilliant Smart Communications Platform

Gateways, Extenders, Extender Bridges, Connectors, PSUs, SecureMesh Modules, NEMS, Head-End Software

TCO (Total Cost of Ownership) For 100,000 Smart Meters

- FCC (4 Watts)
- ETSI (1 Watt)

SecureMesh™ WAN/FAN (5.8 GHz)

Number of Nodes vs. Square km

Dollars vs. Over 20 Years

Over 20 Years

Dollars

Over 5, 10, 15, 20 Years

Trilliant SecureMesh™

Public Mobile Phone Networks

UMTS = $10 per month (OPEX) plus $30 for module (CAPEX)
SecureMesh™ Device View

Backbone/Intranet Tier 1

WAN/FAN 5.8 GHz

NAN/Access Network ‘Last Mile’ 2.4 GHz

Trilliant NEMS and HES Software

Gateway

Extender Bridge

Extender

Gateway

Airlinks = 50 – 800 kBit/s (available with the newly-enhanced SecureMesh)

OSI Layer Model

Layer 7 Application
Layer 6 Presentation
Layer 5 Session
Layer 4 Transport
Layer 3 Network
Layer 2 Data Link
Layer 1 Physical

SecureMesh™ Logical View Example 1

SecureMesh™ Logical View Example 2

Utilities Intranet/Backbone

SecureMesh WAN/FAN

SecureMesh WAN/FAN

PLC Data Concentrator

Smart Grid

SecureMesh NAN/SecureMesh (Smart Metering)
Distribution Automation (Substation)
Distribution Automation (Secondary Substation)

Smart City

CCTV
Traffic Lights
Monitoring Devices

A Network for Public Buildings

A Network for Public Medical Services

Backbone Network: Provided by Utility (e.g. T1, Optical Fiber, Copper, etc.)

Backhaul Network: SecureMesh on 5.8 GHz (e.g. T1, Optical Fiber, Copper, etc.)

Access Network: SecureMesh on 5.8 GHz

Access Network: SecureMesh on 2.4 GHz

Access Network: Local PLC

Trilliant devices run on Layer 1 and Layer 2 only

Trilliant

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