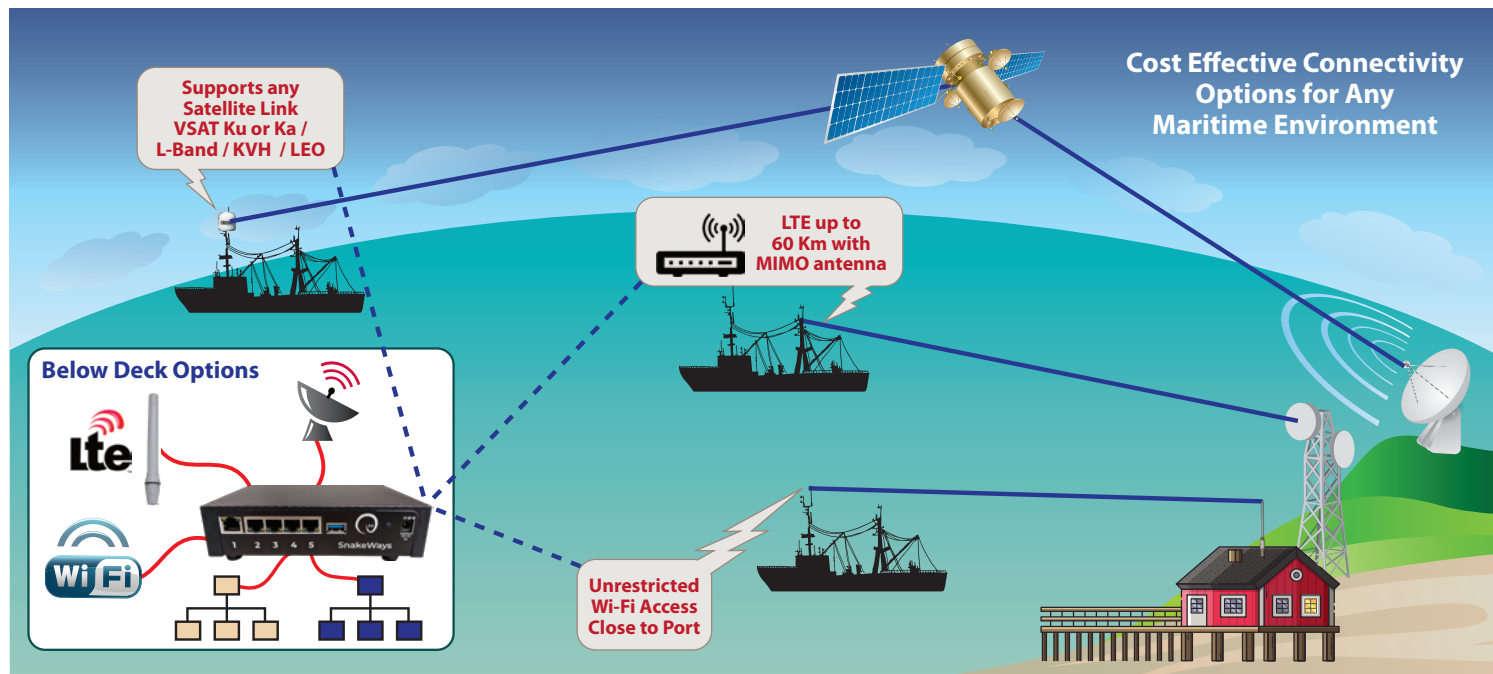


Stay Connected Anytime, Anywhere, with Mackay WAN Management

Select Networking Tools to Control Costs and Increase Satellite Service & System Efficiency

- Extend Wi-Fi and Cell Service
- Seamless Handoff to Satcom
- Save Money & Enable Multiple Connections
- Versatile, Easy to Use, Plug and Play Installation
- Keep Data Transfer Within Defined Limits
- Ensure Resilience with Multiple WAN Paths
- Aggregate Multiple WAN's with bonding
- Limit Nonessential Traffic to Wi-Fi and LTE



Optimize Any IP Satellite System

- Starlink, VSAT Ku/Ka, Inmarsat, Iridium, OneWeb
- Efficient Utilization of Available WAN Resources
- Quota Definition to Limit Usage on Specific Networks
- Quota Definition for Individual Users
- Load Balancing and Resilience in Event of WAN Failure

Mackay WAN Switch

- Least-Cost Router Saves Money
- Firewall Security; Restricts Unessential Data
- WAN Prioritization Wi-Fi → Cell → Satellite
- Email Server (Integration with O365)
- Message Delivery Tracking
- Vessel and Crew LAN's

Cell Data Modem (LTE) and High-Gain Antennas

- High Speed Data Available Near-shore
- Extends Voice & Data Service up to 40 Miles
- Low-Cost Cellular Data Plan Options

Wi-Fi Extender

- Connect to Shore-Based Wi-Fi up to 5 Miles
- Use with Mackay WAN Switch
- Boosts Reception for Connected Devices
- Single Antenna for Wi-Fi and LTE

Email Service



- Message Compression
- Virus Scan, Spam Filters, & Size Filters
- Independent Crew Accounts
- Integration with Corporate Email (@mycompany.com)

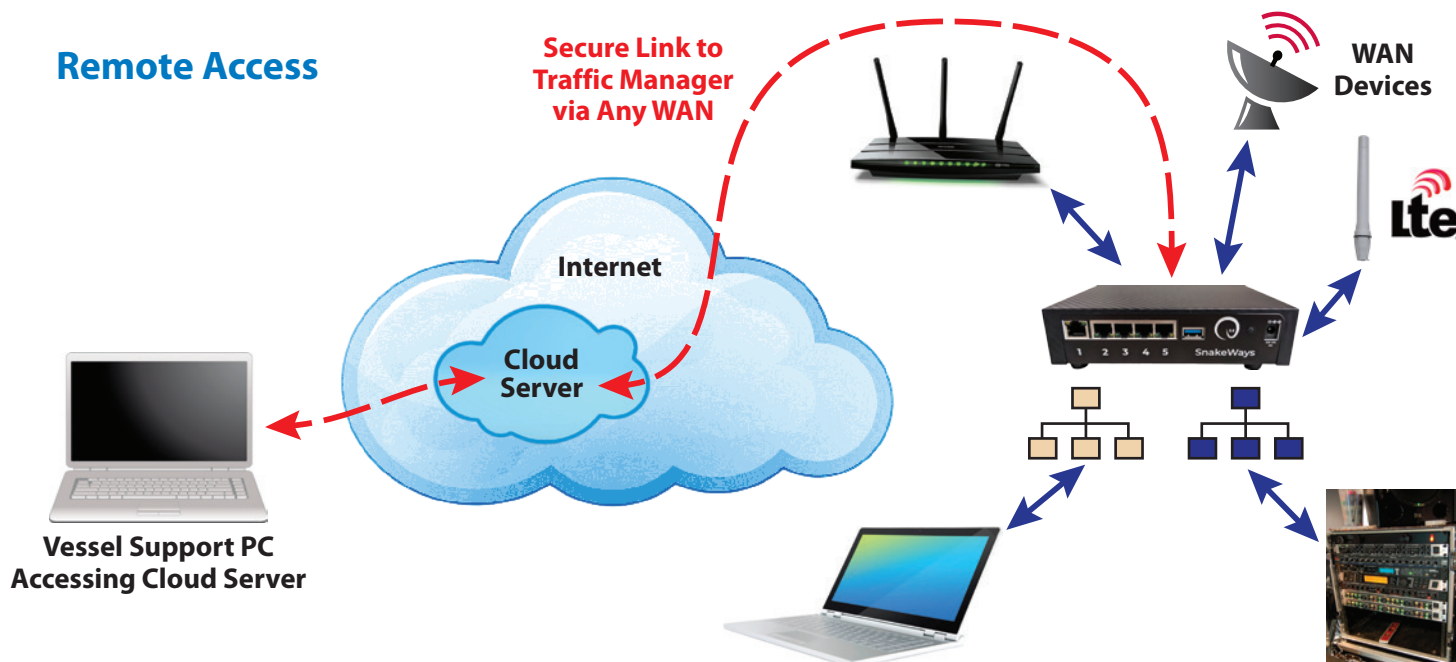
Push-to-Talk (PTT) with Corded Handset

- VOIP Very Similar to Mobile Radio Experience
- Engage with Private Talk Groups Beyond the Horizon
- Optional Loud Speaker & Cordless Headset

Enhance Olex Subsea Mapping Packages

- Stay Safe with Up-to-Date Weather Reports
- View & Collect Bottom Mapping at its Finest

Mackay WAN Management Unique Benefits



- Remote Access to All Connected Devices (WAN and LAN)
- Port Scan Automatically Identifies Equipment and Servers on Vessels
- One Click Connection to Target
- Secure Access From Corporate Network Only

Complete Traffic Management for Maritime Customers Across All Networks

Automated WAN Switching with Least-Cost Routing

- Wi-Fi, LTE, Satellite

Predictable Monthly Cost Control

- Quota Definitions to Prevent Bill Shock

Firewall

- Security and Content Control
- **Different Rule Set for Each WAN and LAN**
- Restricted Access After Exceeding Quota

Reporting

- Snapshot of Current Usage Values Per Network
- Report Generation for a Given Period/Network
- View of Active Network at Any Time

Crew Portal

- Email Server
- IMAP Support of Corporate Domain (e.g. Outlook.Office365.com)
- Incoming and Outgoing Filters
- Unlimited Accounts
- Secure Communication
- Complete Log of Messages with Progress Report

Connectivity Via Any IP Network

- Wi-Fi, LTE, LoRa, Satellite, etc.