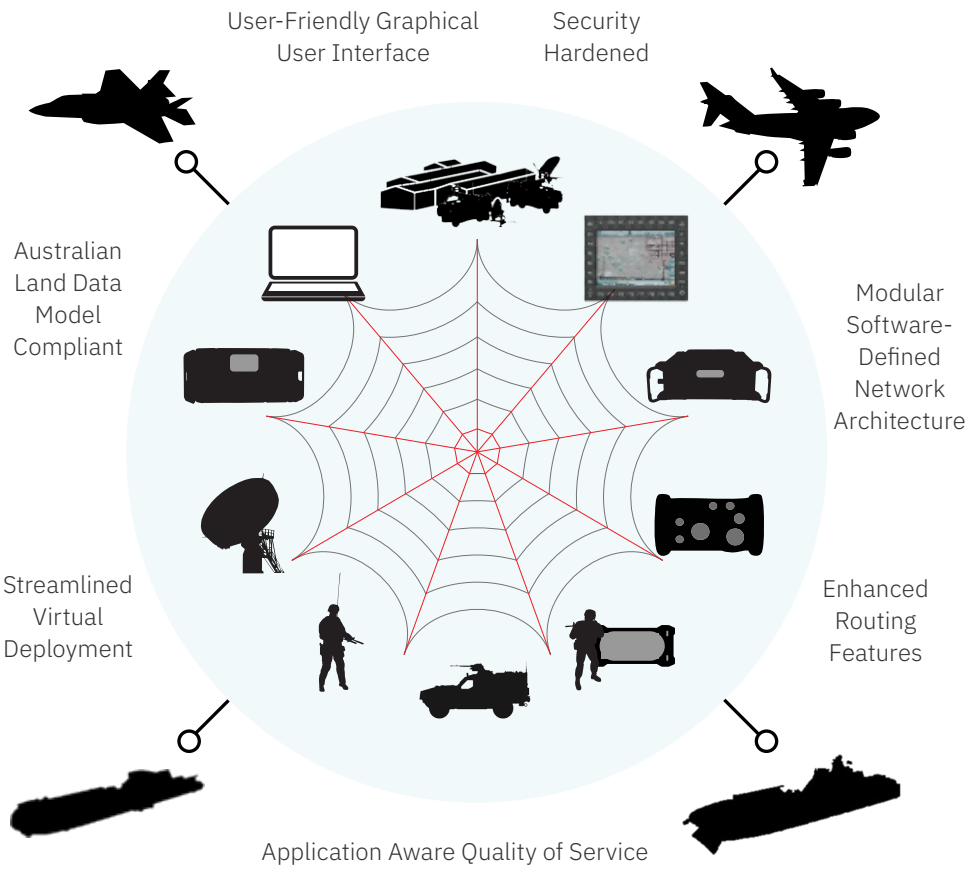
L3HARRIS®
FAST. FORWARD.

NETCASTER™ TACTICAL ROUTER

NETwork Control and Service Translation Enhanced Router

The NetCaster is a non-ITAR next-generation software router designed and developed by L3Harris Technologies in Australia. Incorporating advancements beyond a traditional router, the NetCaster increases overall tactical network optimisation and performance. Easily deployable on tactical computer systems, the NetCaster interfaces with external applications and bearers using open standards. By utilising a software-defined networking architecture, the NetCaster is modular, allowing rapid integration of new technologies. The NetCaster provides the following features to maximise in-theatre resilience for rapidly deployable joint-domain communication networks.



KEY BENEFITS

- Adaptive routing dynamically selects the best paths in real-time conditions
- Centralised Web UI for quick configuration and control
- Local and network-wide monitoring provides a unified visibility of node and network health
- QoS is enforced per application for optimised performance
- Easy to deploy as a VM or container on hardware with minimal footprint
- SDN architecture ensures future extensibility with new features without redesign

ROUTING

- Performs Layer 2, 3 and 4 routing operations
- Support unicast routing protocols RIPv2 and OSPF
- IP Routing IPv4/6, PIM-DM, IGMPv3, DHCP

ADDITIONAL ROUTING FEATURES

- Radio-aware routing using Dynamic Link Exchange Protocol (DLEP) support with local radios for enhanced routing performance
- Multicast steering for custom multicast traffic routing as needed by applications
- Enhanced route summarisation optimised for tactical networks
- Load balancing optimisation

SECURITY HARDENED

- Access Control List allows only configured applications to connect
- Intrusion Detection System analyses all traffic traversing the NetCaster
- VM hardened to ISM and RHEL STIGs, with over 220 controls applied
- Triggers Security Alarms

AUSTRALIAN LAND DATA MODEL COMPLIANT

- Compliant with AS LDM v7.2.1 (in conjunction with MissionOps™)
- Implements Registry, Platform Configuration and Radio System modules

USER-FRIENDLY GRAPHICAL USER INTERFACE

- Graphically define and configure LAN and WAN hosts
- Define configuration from templates and save/load configuration from files
- Real-time monitoring of the local network performance for immediate awareness of routing activity
- End-to-end visibility across the entire network of supported nodes, allowing operators to track and manage network health via a Web UI
- Control and monitor local radios

MODULAR SOFTWARE-DEFINED NETWORK ARCHITECTURE

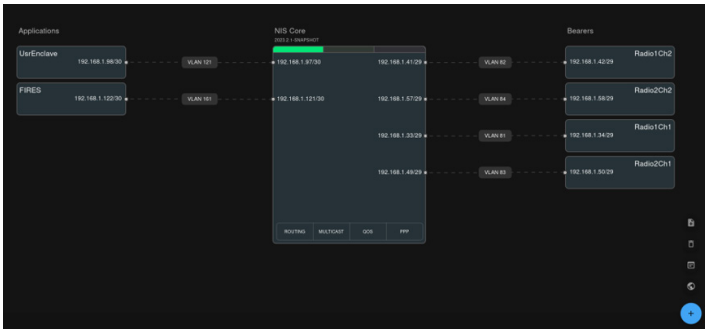
- Dynamic traffic control with real-time adjustments to network traffic
- Flexible QoS policies
- Rapid customisation and reconfiguration capabilities

QUALITY OF SERVICE

- Dynamically prioritises network traffic based on application type
- Adaptive bandwidth management
- VMF traffic management via deep packet inspection

DEPLOYMENT

- Delivered as a virtual appliance
- Deploy as KVM VM or container



NetCaster Intuitive GUI (indicative only)

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