



IQ-Core ROAM

Remote Operations and Management

Increase your tactical network situational awareness and control to an entirely new level with PacStar® IQ-Core® Remote Operations and Management (ROAM).

A powerful user-friendly software package that permits you to view your entire network through a single pane of glass, while sharing views and access to deployed operators at any echelon, to create a collaborative, hierarchical, network operations and management structure.

- Designed for tactical networks, including operations indisconnected, intermittent, and limited environments
- Runs at both central and distributed locations
- Reduces configuration errors and speeds troubleshooting
- Automates configuration management and cyber defense
- Intuitive user interface, ideal for both advanced administrators and entry-level operators
- Field-proven, based on the widely-deployed PacStar IQ-Core Software

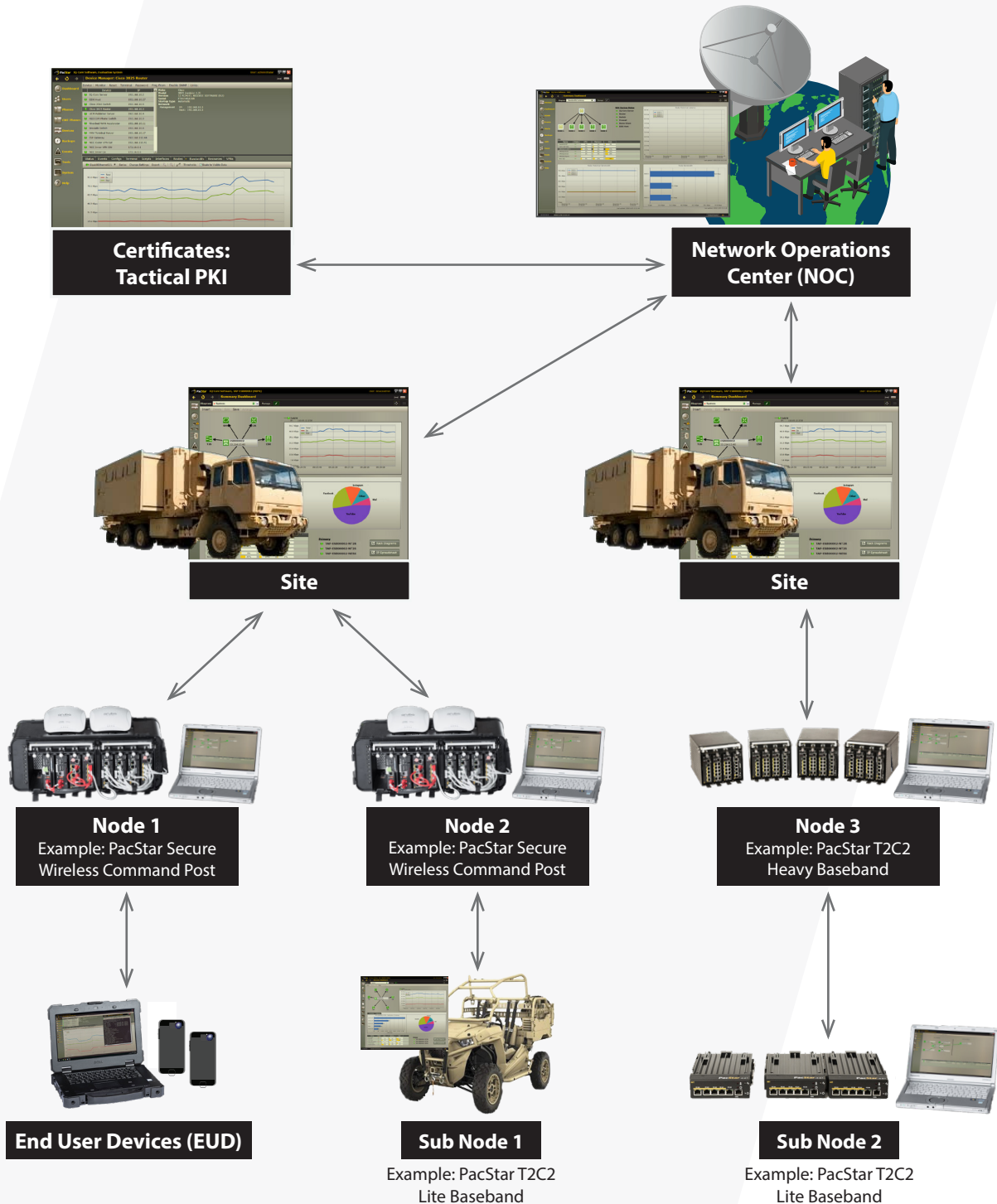
Key Features

- Intuitive user interface at upper tiers (or echelons) and NOCs that mirrors remote systems, making navigation and management throughout the network easy and consistent
- Reduces configuration errors by automating deployment of network planning and device configuration files across the network, ensuring consistent configuration of all network devices
- Simplifies troubleshooting through integrated tools for both entry-level and advanced network administrators, reducing reliance on contract field service reps
- Saves time by enabling visibility of status across all network nodes, at a glance. Enables bulk updates of all network nodes from a single interface
- Provides cyber situational awareness by securing, consolidating, and forwarding alerting information at each tier of the tactical network. Provides enhanced network situational awareness at the core and edge of the tactical networks, with extensive real-time visibility of connected nodes. Operates seamlessly in a disconnected, intermittent, and limited (DIL) environment
- Facilitates remote and distributed management by enabling upper echelon administrators to interoperate with and assist remote operators. Enables remote operators to perform all tasks, even when they have no WAN connectivity
- Field proven, based on the widely deployed PacStar IQ-Core NCM communications management platform

Certified and included on the DoDIN Approved Products List (APL)

Solution Architecture

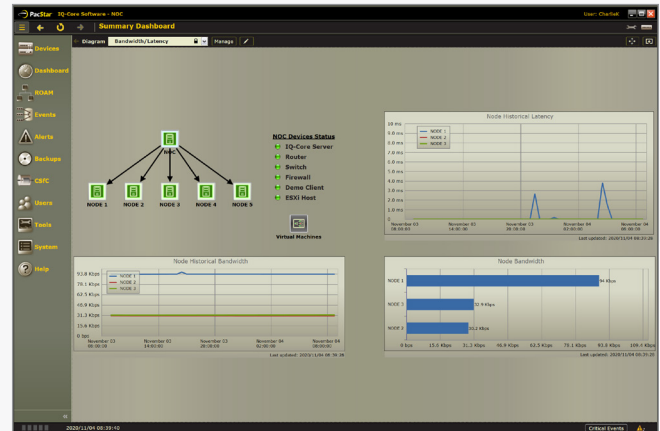
IQ-Core ROAM operates at multiple tiers in a distributed network, including the NOC, at remote sites, and on every network node at the edge of the network. System administrators in the NOC have the same view and features as system operators. Network nodes can be remote offices or sites, tent-based command posts, vehicle-mobile command posts, or small-fly-away kits – frequently connected via SATCOM or unreliable WAN links.



IQ-Core ROAM

IQ-Core ROAM integrates with all editions of IQ-Core Software to offer a comprehensive suite of capabilities across distributed networks at any tier and any node.

- Distributed, hierarchical design allows nodes to also manage sub nodes (e.g. NOC -> SubNOC -> Node)
- Efficient transmission of data, in real-time, between nodes and NOC. Only changes in status are transmitted (no polling)
- Local operators and remote operators can have the same or different views (controlled by roles)
- Mission-based views of remote nodes
- Manages any number of remote nodes. Includes customizable groups and node names to match organization requirements



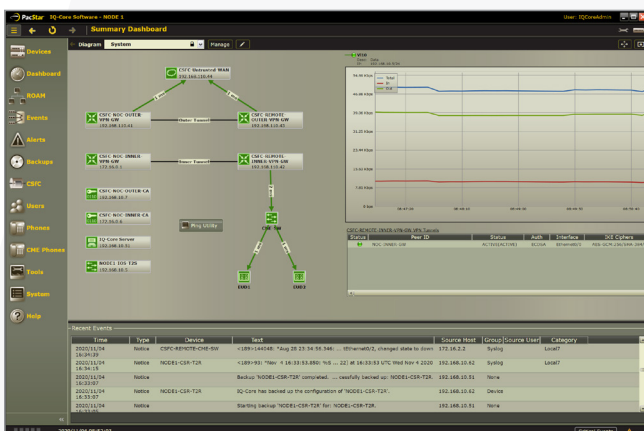
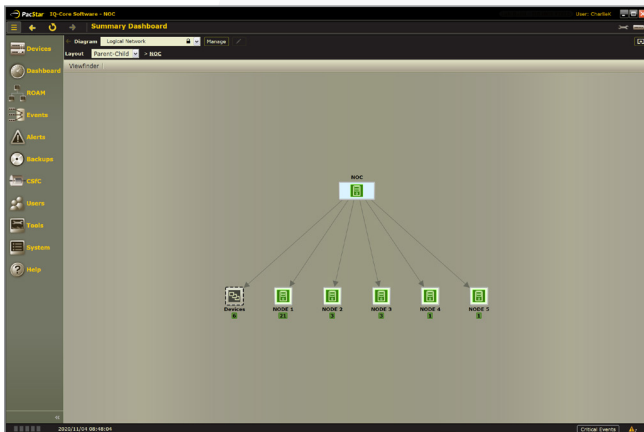
Example IQ-Core ROAM NOC Dashboard

Auto-Generated Network Diagrams

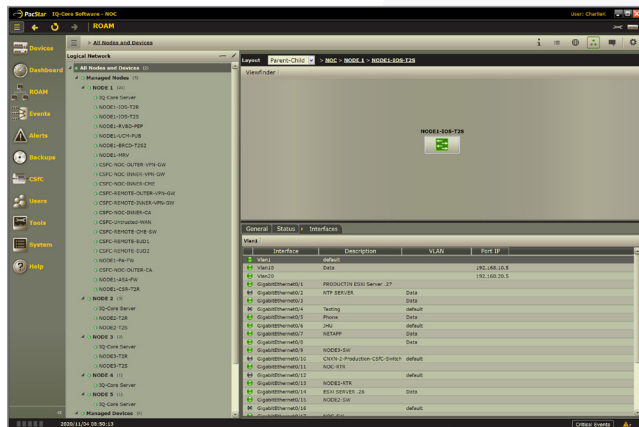
- Auto-generated diagrams showing the structure of hierarchical nodes as managed by IQ-Core ROAM
- Ability to drill down through all layers of the hierarchy, from NOC to End User Device and all nodes in between
- See important data at-a-glance for all IQ-Core ROAM managed devices, in the diagram, in a single view

Mission Diagrams

- Unlimited number of dashboard views that show data important for an enterprise, mission, exercise, or test
- Rich data via widgets: status, interfaces, latencies, flows, bandwidth, resources, maps, etc.
- 'Last Reported Info' report, even if a node has been unreachable for extended periods of time



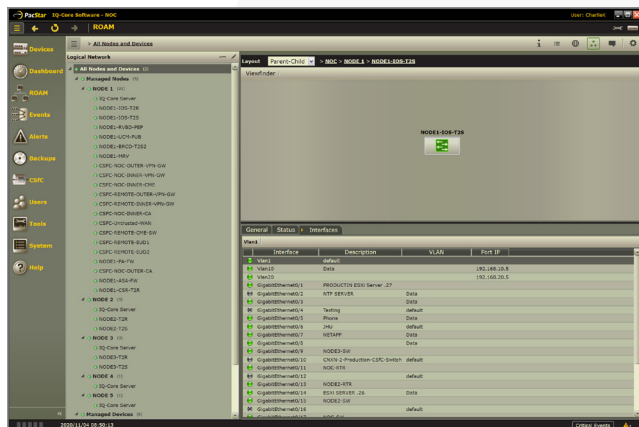
IQ-Core ROAM



Remote Node Status and Management

IQ-Core ROAM includes summary management of remote nodes and the ability to fully manage each remote node, at every network tier.

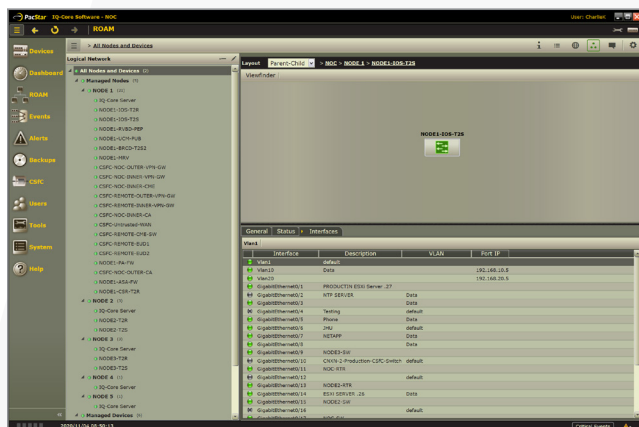
- Real-time views of node and device status including interfaces and alerts
- At-a-glance diagram views allow drill-down and launching of a complete administrative interface to a node, enabling full remote management of remote nodes
- Views of nodes that are out-of-date, and ability to remotely update them



Aggregated Node Reports

IQ-Core ROAM includes reports that cross nodes, aiding in network situational awareness.

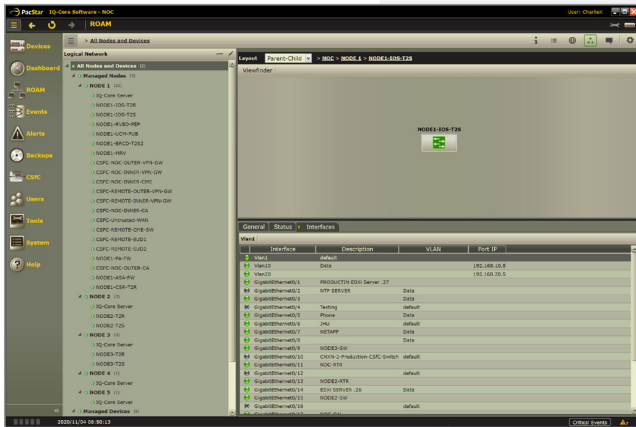
- Uptime/downtime across nodes
- Bandwidth usage across nodes
- Flow analysis across nodes



Distributed Configuration Management

IQ-Core ROAM includes configuration management of remote nodes from upper tiers, enabling consistent configuration throughout the network.

- Send any file to one or more nodes
- Send network device configurations to one or more nodes
- Generate, issue, and send digital certificates to one or more nodes
- Optionally automatically activate (apply) a configuration, OS update, or other content
- View the configuration of remote nodes, from upper tiers
- Update IQ-Core Software remotely on any node



Secure Messaging

IQ-Core ROAM includes real-time communications between nodes and upper tiers for administrators using IQ-Core ROAM.

- Inline messaging from remote site to any node to assist with troubleshooting and updating
- Encrypted via IQ-Core ROAM management protocol
- Multiple simultaneous messaging sessions
- Group messaging

PacStar products are covered by multiple patents. Additional patent(s) pending.

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