

# BC|Commander®

## BreadCrumb® Network Management Software

**BC|Commander is Rajant's feature-rich monitoring and management application for Kinetic Mesh® networks built with Rajant BreadCrumb wireless nodes.** The software helps you configure, monitor, and manage individual BreadCrumbs or groups of BreadCrumbs. Available for both Microsoft® Windows® and Linux® workstations, BC|Commander provides a global view of your network through an easy-to-use, intuitive graphical user interface and offers many advanced features that are helpful for deploying and managing large or complex networks. The system uses a secure encrypted link to each BreadCrumb to protect your network information.



While a BreadCrumb-based network can be deployed without BC|Commander, BC|Commander provides a wealth of features for those network managers who want to exercise greater administrative control over their Rajant networks. As BreadCrumbs are added to the mesh network, maintaining optimal configurations and detecting inconsistencies become increasingly more difficult. BC|Commander provides a number of analysis tools that generate summary and detail data. That data can be viewed in BC|Commander and exported as PDF reports with a snapshot of the analyzed data as an attachment.

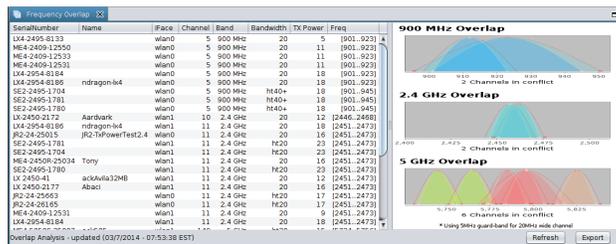
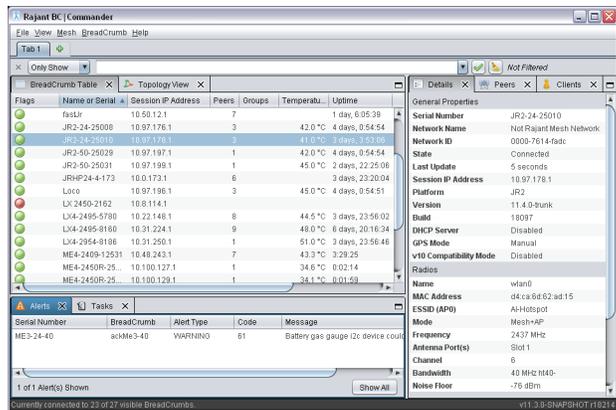
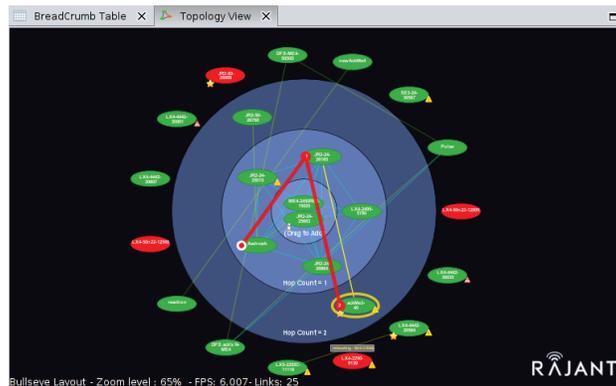
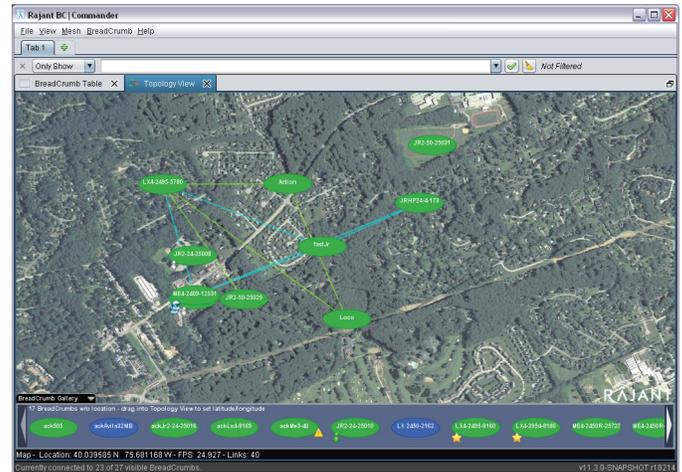
### BC|Commander Features Overview

#### Major BC|Commander time-saving features include:

- Point-and-click configuration of multiple BreadCrumbs simultaneously
- Remote firmware updates on multiple BreadCrumbs simultaneously
- Real-time tabular views of the network with customizable columns
- Real-time topological views with a number of network graph layout options such as circle and bullseye layouts
- Wireless client displays showing information such as which Wi-Fi clients are associated with which BreadCrumbs and real-time roaming of those clients
- Configuration of wireless encryption and authentication
- Radio frequency (RF) status displays for all mesh and client links
- Real-time map views of BreadCrumb devices using aerial or street views (via optional GPS receiver or manual location configuration)
- Network configuration reporting and analysis
- InstaMesh® trace to view the path from any node to any device at any moment with auto-refresh and a reverse path display
- Loading of previously saved network snapshots for analysis and troubleshooting
- Configurable units for input and display (metric, imperial, various GPS coordinate formats)
- Control of all other configurable BreadCrumb features such as radio settings, VLANs, access points, ESSID, security credentials, and TRoIP (Tactical Radio over IP)
- Real-time detailed view of each peer link in the mesh showing information such as transmit power, signal to noise ratio (SNR), distance, and associated link rate
- Ability to associate group icons to BreadCrumbs, view the icons in various topological views, and add new user-defined group icons as desired
- Configurable and savable view filters and screen layouts for various administrative tasks such as configuring a map view of trucks and a table view of towers
- Per-BreadCrumb alerts and warnings such as excessive RF noise detection and DFS channel avoidance in effect
- View diagnostic snapshots with snapshot comments
- Control of Dynamic Frequency Selection (DFS) and Dynamic Transmit Power (DTP)

## View Your Complete Network Instantly via BCIconnector

BCIconnector is our next-generation network management service that constantly discovers and maintains connections to the mesh network. At any time, BCIconnector® can connect to BCIconnector for instant information about the mesh and its BreadCrumbs. This greatly reduces administrative overhead, provides much faster BCIconnector startup, and simplifies remote network monitoring by authorized administrators.



## Optimize Your Rajant Kinetic Mesh® Network with BCIconnector

As your private wireless mesh network evolves and expands to support new applications and changing communication requirements, achieving optimal reliability, performance, and security requires a first-rate network management solution. BCIconnector is a best-in-class network management application with rich functionality that gives you the real-time information and time-saving tools you need to keep your communications flowing continuously and efficiently. And, we regularly update BCIconnector as new technologies become available.

For optimal Kinetic Mesh network performance, you can pair BCIconnector with BCIconnector, our always-on mesh network monitoring and alerting system. BCIconnector provides strategic data on historical mesh network performance with automatic system alerts to identify and diagnose potential network anomalies. Together BCIconnector and BCIconnector offer a comprehensive network monitoring and management solution for your Kinetic Mesh network.

With these sophisticated yet easy-to-use network management tools, you have the right information at the right time and the right tools to optimize your Rajant wireless mesh network. BCIconnector and BCIconnector are available from Rajant Corporation and its authorized channel partners.

