

Central Management from a Single Intuitive Dashboard

Security operations and network security managers are looking for a secure and simplified solution to centrally manage multiple BlackRidge gateways with an intuitive dashboard and comprehensive monitoring capability. The BlackRidge Enterprise Manager (BEM) provides a unified console to configure, monitor, and manage all gateways with a few simple clicks. Designed from the ground up with simplicity to optimize user experience while maintaining a strong security architecture, the BEM empowers operations managers with easy-to-implement rules, unified and consolidated policies, and simple configuration setups from a single console. Setup and control of BlackRidge gateways with industry-leading security can now be completed in matter of minutes with complete control.

BlackRidge Enterprise Manager consolidates security policies, key management, firmware updates, logs and event maintenance into a single management console. The BEM virtual appliance scales to fit your corporate needs today, with the ability to adapt to future management requirements. Organizations of all sizes can leverage the BEM to manage from a single to hundreds of gateways within their network, and accelerate time to deployment and changes to their security infrastructure.

Key Features and Benefits

- Intuitive dashboard for complete deployment visibility
- Centralized configuration and management
- Comprehensive gateway traffic and usage statistics
- Complete logging of administrator activities
- Encrypted communications of all management traffic
- Scalable to manage hundreds of gateways
- Distributed architecture to manage remote gateways
- Consistent backup and upgrades

Flexible Deployment Topology

Deployment of the BlackRidge Enterprise Manager can be done locally to manage all BlackRidge gateways as well as deployed in remote data centers and in the cloud to manage to a distributed network of gateways.

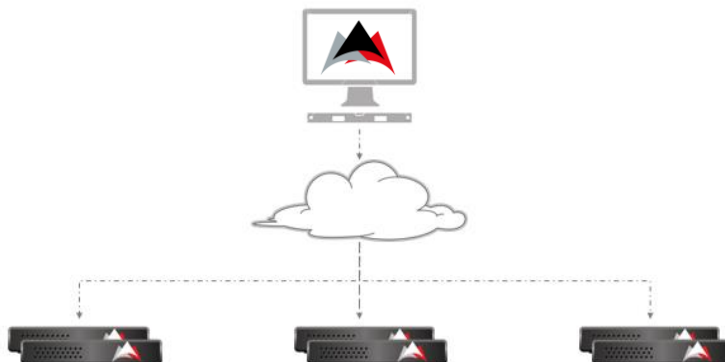


Figure 1. BlackRidge Enterprise Manager deployed in the cloud to manage distributed BlackRidge gateways.

Intuitive Dashboard for Quick Problem Identification

Intuitive network visibility with the BEM Dashboard provides security operations and network security managers with an interactive, real time status of the managed BlackRidge gateways, conditions of the security policy, and a consolidated view of the gateway traffic statistics. The BEM includes a tabbed view of the various configuration parameters to allow security managers to easily and quickly configure the managed gateways.

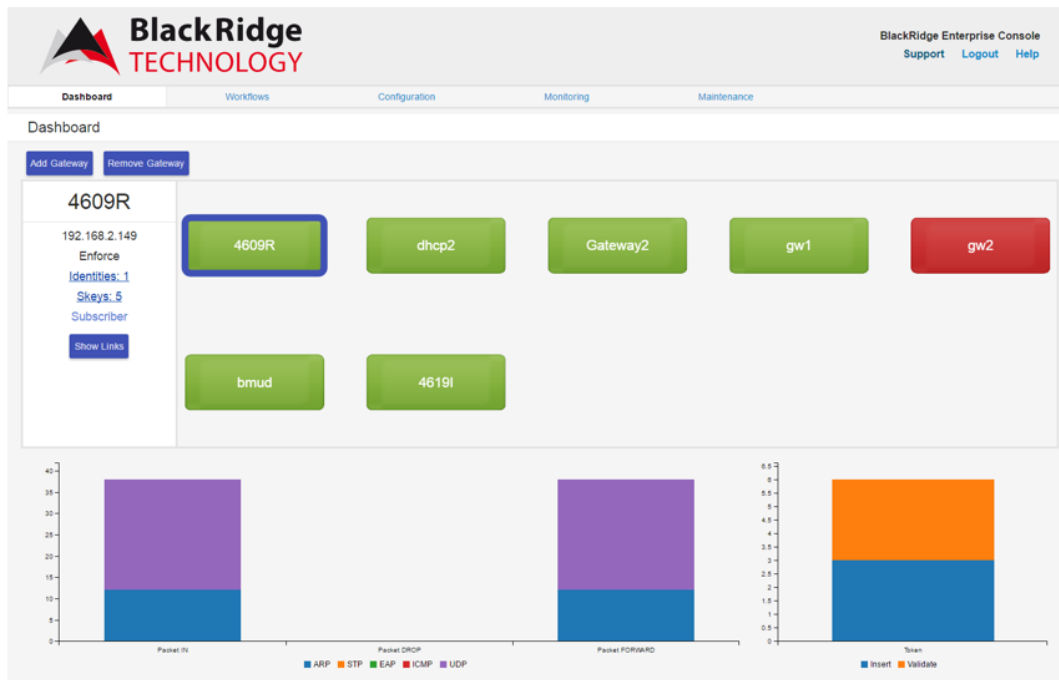


Figure 2. BlackRidge Enterprise Manager Comprehensive Dashboard

Centralized Configuration and Management

Through the web-based management console, operations managers are able to control and manage distributed BlackRidge gateways from one dashboard, enabling consistent security management. Gateway settings such as key and policy definition can be centrally configured for a single gateway or pushed to multiple distributed gateways.

Comprehensive Statistics and Monitoring of Status

Consistent understanding of the network and security activity is important in order to keep security breaches from occurring. Proper and regular reporting allows security managers to be proactive about optimizing their network and satisfying executive staff scrutiny that proactive security controls are in place. The BEM provides simple to configure policies and comprehensive network usage statistics to ensure awareness of network status at all time. Real time status on the usage of configured identities is provided, ensuring a total awareness of the network activity.

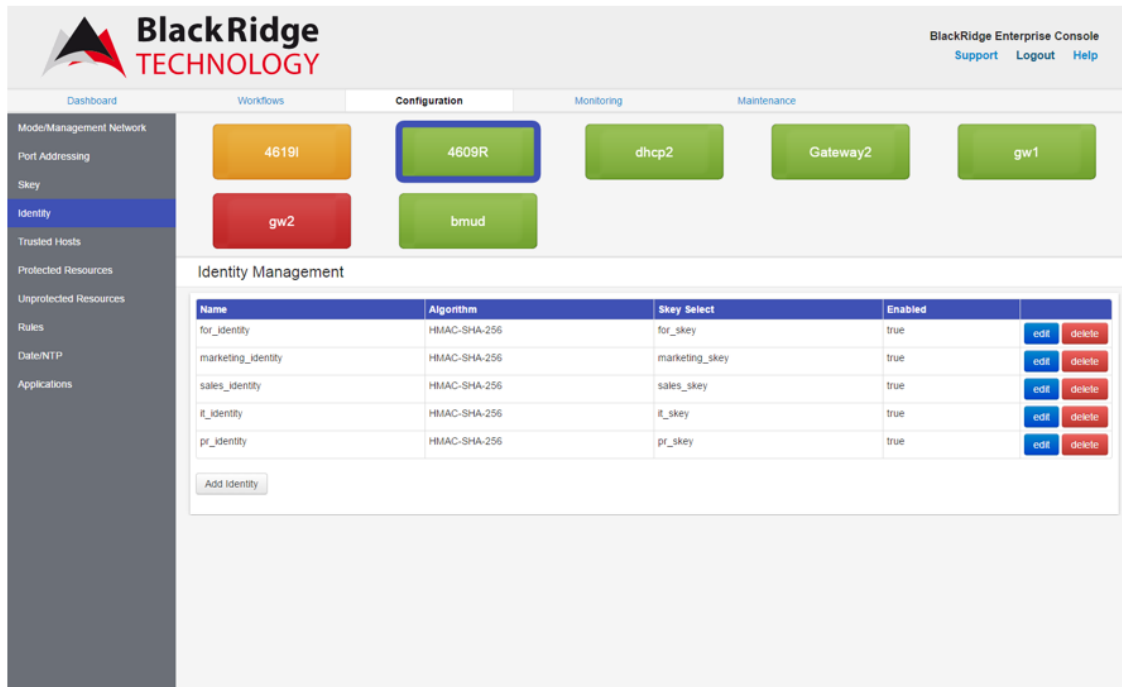


Figure 3. Centralized Configuration through the BlackRidge Enterprise Manager

Enterprise Class Management

The BlackRidge Enterprise Manager can be deployed with a role based hierarchical access to ensure lower-level groups inherit the settings of higher-level groups. This streamlines central management and enables corporate IT security team to organize managed gateways based on function and location without redundant configuration.

Traffic Monitoring: Monitoring, Reporting and Big Data Analysis

The BlackRidge Enterprise Manager can be extended to support sophisticated and powerful monitoring and reporting functions utilizing data available at the local device management level and consolidated at the network level through the BEM. As IT security network managers perform log queries and generate reports, the BEM's architecture is scalable to provide high volume attribution information to external or third party big data analytics systems.

Encrypted Communications of all Management Traffic

Protecting the security management infrastructure is as important as protecting the network and servers resource themselves. The BEM is designed from the ground up to be secure, leveraging the security features of the BlackRidge Transport Access Control (TAC) architecture. Every communication between the managed gateways and the BEM is secured and encoded to ensure no possibility of compromise.

BlackRidge TAC uses a highly scalable, non-interactive authentication protocol that operates at the transport layer, ensuring all management traffic between the managed gateways and the BEM is fully secured. BlackRidge TAC works across LAN and router boundaries and automatically adjusts to changing network topologies, ensuring that the overall management network is secure end-to-end.

Scalable to Manage Hundreds of Gateways

The BlackRidge Enterprise Manager is designed from the ground up to allow it to operate in standalone mode to manage a pair of gateways as well as scalable to manage hundreds of gateways without additional complexity. Through careful engineering and optimization of algorithms, the BEM is positioned to continue to scale to manage a large distributed BlackRidge implementation spanning across the globe.

Deployment Model

The BlackRidge Enterprise Manager is deployed as a virtual appliance on VMware® ESXi™, allowing corporations to support their virtualization initiatives and consolidate rack space. A single BEM virtual appliance is responsible for handling the tasks associated with policy and device configuration across all managed gateways.

Virtualization Appliance Specification

Minimum Server Requirements

- 16 GB hard drive
- 2 CPU cores
- 4 GB RAM

VMware Support

- VMware ESX 5.5 or greater

Browser Support

- Firefox v47 or greater
- Chrome v51 or greater

About BlackRidge Technology

BlackRidge Technology provides identity-based network and cyber security protection that stops cyber-attacks and protects against insider threats. BlackRidge Transport Access Control authenticates identity and applies policy on the first packet of network sessions, providing a new level of real-time protection that cloaks and protects servers, segments networks, and provides identity attribution.