Q-Balancer®

Data Sheet
QB-Manager

CENTRALIZED MANAGEMENT SYSTEM

SINGLE SCREEN ADMINISTRATION

QBManager is a centralized management system providing comprehensive and powerful features for enterprise networks. QBManager streamlines the management tasks for network administrators through its features of auto-provisioning, policy and configuration management, firmware upgrade, monitoring, etc. QBManager reduces time, cost, and error-prone policy configurations associated with the deployment for branch gateway devices, and provides access to detailed performance data correlated allowing IT administrators to manage all devices with a single screen.

CENTRALIZED PROVISIONING

Eliminates the need of sending IT experts to each individual branch location for manual device configuration. Adding a Q-Balancer branch gateway device to an enterprise network can now be done with the technology of drag-and-drop tunnel creation. A branch gateway configuration used to take hours plus the time traveling to branch locations for network deployments, but now with the new technologies, it can be done in few minutes.

CENTRALIZED MANAGEMENT

Provides centralized policy administration, device configuration, and firmware upgrade management for up to hundreds of branch gateway devices. The process of management on branch gateway devices as well as the transition from configuration to monitoring can be simplified. You may remotely access the web user interface of any managed device with a click on the map or topology to find out more.

CENTRALIZED MONITORING

Enables network administrators to monitor real-time bandwidth usage, packet loss, latency, and jitter across enterprise networks, and to proactively identify possible performance impacts. The inbuilt reports help network administrators track a variety of performance metrics, and can be scheduled to be sent on a regular basis to individual or multiple recipients. It aggregates logs of various network events and operations, network administrators can set email notifications for the events upon the occurrence.

KEY BENEFITS

> Add new devices to a network easily and rapidly

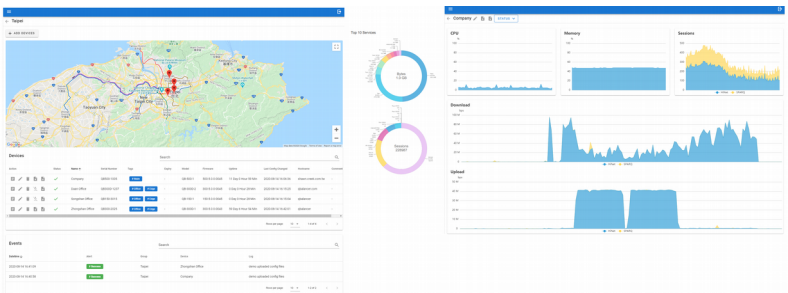
> Simplify common network management tasks

> Align application delivery to business goals through business intent policies

> Gain centralized visibility into network performance

> Provide analytical data for faster resolution of network related issues and capacity planning

> Scale up network flexibly to lower upfront cost of deployments



KEY FEATURES

QBManager is a browser-accessed software solution running within a VM on a standard user provided servers or in the cloud. A single instance can manage and collect data for up to hundreds of gateway devices, including headend and branch gateways.

With network topology on map, QBManager provides the assistance for configuration changes, and thus the configuration can be easily done through the use of geographical network topology.

By leveraging an intuitive graphical interface, the visual overview of network performance provides administrator a quick at-a-glance overview of possible network errors. The capabilities of centralized monitoring provides unprecedented visibility into enterprise networks. QBManager analytics deliver the specific details enterprise needs to quickly and easily uncover the root causes behind network issues, so less downtime and better performance can be achieved.

SIMPLIFIED NETWORK DEPLOYMENT

The capability of zero-touch provisioning (ZTP) allows branch gateway devices to be provisioned centrally. With software and configuration downloaded automatically upon physical installation, it reduces installation time and costs. When appliances are physically installed at a branch location, ZTP automates follow-up steps and configuration prior to connection. Also, you can easily have a new installation done with the intelligent clone feature. These intelligent features for automatic configuration dramatically reduce the error-prone policy configurations and speed up the process of configuration.

ZTP enables the deployment of new branch or data center provisions without requiring the costly expert labor traditionally involved with network upgrades. This greatly reduces the expertise required of an onsite installer of an edge device as a factory-delivered device can receive and apply settings without local action as soon as it's connected to the network.

The configuration interface is easy to understand and uses the same look and feel as the on-appliance web interface, minimizing the learning curve for those familiar with Q-Balancer appliances.

With the capability of simplifying network provisioning:

- New sites can be added and provisioned in a data view or a network topology on map.
- The initial configuration process can be accelerated with default values and rules while making it simple to tailor the network behavior to align application delivery to business goals through business intent policies
- Network settings can be pre-configured and customized in QBManager based on branch-specific requirements. Zero-touch provisioning provides an easy and error-free deployment model.

CONFIGURATION MANAGEMENT

The capability of centralized configuration minimizes the administrative effort and operational cost associated with managing branch gateway devices. Rather than configure each site individually and risk possible errors occurring if a configuration conflict occurs, it avoids the issues by letting network administrators to configure the network as a whole. This approach speeds up the process of configuration and dramatically prevents the possibility of human errors.

The capability of centralized configuration empowers network administrators to centrally define and orchestrate granular routing policies including any combination of users, application groups and overlay networks, pushing configurations to sites in accordance with business intent. This offers customers the unique ability to centrally assign business intent policies to secure and control all branch gateway devices and traffic across the network.

With the capability of centralized configuration administration:

- Configurations can be managed from a central location, and thus network-wide configuration changes can be simultaneously activated in every edge appliance.
- Multiple configurations can be synchronized and archived for easy rollback through the configuration change management feature. This minimizes network downtime in case hardware failure at branch offices.

MONITORING AND REPORTING

With the capability of monitoring and reporting, network administrators have better visibility to the managed devices. All managed devices with logging enabled will automatically send logs to QBManager, and the centralized monitoring and reporting provides visibility into network and user activity.

The centralized monitoring and reporting provides powerful analytics combining with data mining and graphical reporting capabilities. Events and alerts can be centrally collected and reported for further analysis.

While this capability doesn't prevent failed links or high latency and jitter, it prevents those factors from impacting the continuity across enterprise networks. However, it is an ideal solution to help IT staff access and investigate in the events that impacts network continuity. Real-time monitoring and historical reporting are handy for network administrators when it comes to fault finding, troubleshooting, network and capacity planning, ROI analysis, and SLA confirmation.

With the capability of centralized monitoring and reporting:

- Geographically oriented maps and data view show network status with visual indications of bandwidth usage.
- Consistently poor performing links are highlighted and reported, and the information is made available to network administrators so that alternative providers can be considered.
- Performance statistics show the quality of each link and path in the network so that poor performing links can be highlighted and reported to network administrators.
- Color-coding and visual cues to network performance make it easy to quickly assess network performance. In addition, network maps and graphs are interactive allowing the user to zoom into plot lines or mouse over charts to see more detailed information.
- Reports help discover applications using bandwidth more than expected, so those issues can be corrected accordingly.
- Reports assist with capacity planning by showing bandwidth usage on each link. Links approaching saturation are found and additional bandwidth can be added.
- Customized graphic and text reports can be saved, enabling the network to be viewed from different perspectives.

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HARDWARE SPECIFICATIONS

Hypervisor Supported	VMware Hypervisor ESXi 5.1.0 or higher
Minimum vCPU Required	2
Minimum Memory (GB)	4
Minimum Storage (TB)	1 (Locally attached storage only)
Warranty	1-Year Limited Warranty

ORDERING INFORMATION

PRODUCT	SKU	DESCRIPTION
QBManager w/ 5 devices	QMR-5	QBManager one-year license, which supports up to 5 devices on VMware ESXi platform.
QBManager w/ 50 devices	QMR-50	QBManager one-year license, which supports up to 50 devices on VMware ESXi platform.
QBManager w/ 100 devices	QMR-100	QBManager one-year license, which supports up to 100 devices on VMware ESXi platform.
QBManager w/ 150 devices	QMR-150	QBManager one-year license, which supports up to 150 devices on VMware ESXi platform.
QBManager w/ 200 devices	QMR-200	QBManager one-year license, which supports up to 200 devices on VMware ESXi platform.
QBManager w/ N devices	QMR-N	QBManager one-year license, which supports up to N devices on VMware ESXi platform.