

ONLY WITH RG NETS

Fleet Manager



SD-WAN Visualization

WITH THE REVENUE EXTRACTION GATEWAY

rgNets

Introduction

One of the differentiating strengths of RG Nets' revenue eXtraction gateway (rXg) is its visualization capabilities, and the new SD-WAN fleet visualization tool is no exception. In complex network environments, understanding the overall network status as well as that of each of the component links can be a challenge, but with SD-WAN fleet visualization, operators can quickly see which links are up and running and which require more attention, saving a significant amount of time and effort.

SD-WAN

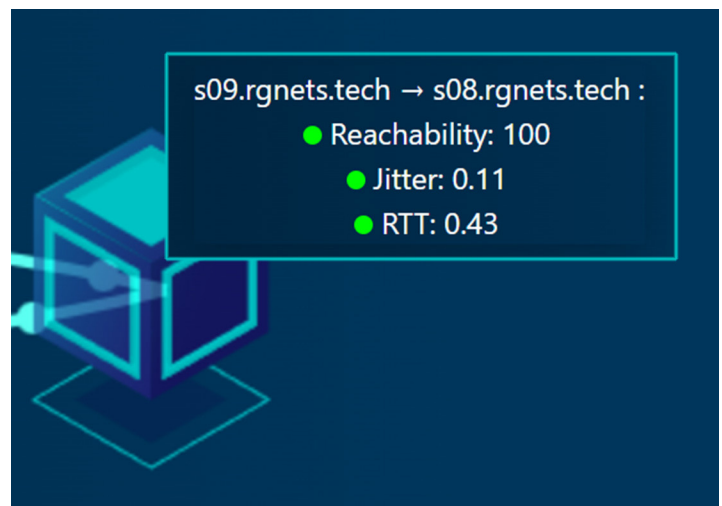
In an SD-WAN scenario, edge gateways are deployed at each remote site and then physically connected to one or more Dedicated Internet Access (DIA) uplinks. A central control plane management system establishes a software-defined overlay mesh data plane, allowing traffic to be routed efficiently and reliably between sites. The RG Nets rXg enables operators to manage fully distributed SD-WAN policy enforcement from a single centralized Fleet Manager control point.

Fleet Manager

Fleet Manager can automatically configure OpenVPN and WireGuard tunnels between itself and some or all of the rXGs in a multi-site network. Network operators can deploy rXGs across the entire catalog of sites, establishing secure data tunnels and allowing network engineers to remotely access LAN-connected devices. Ultimately, a virtual circuit can be established between any two nodes in the network in a fully automated fashion. Fleet Manager eliminates manual intervention at remote sites and can streamline the entire network management process, allowing operators to "manage the management" rather than individual sites.

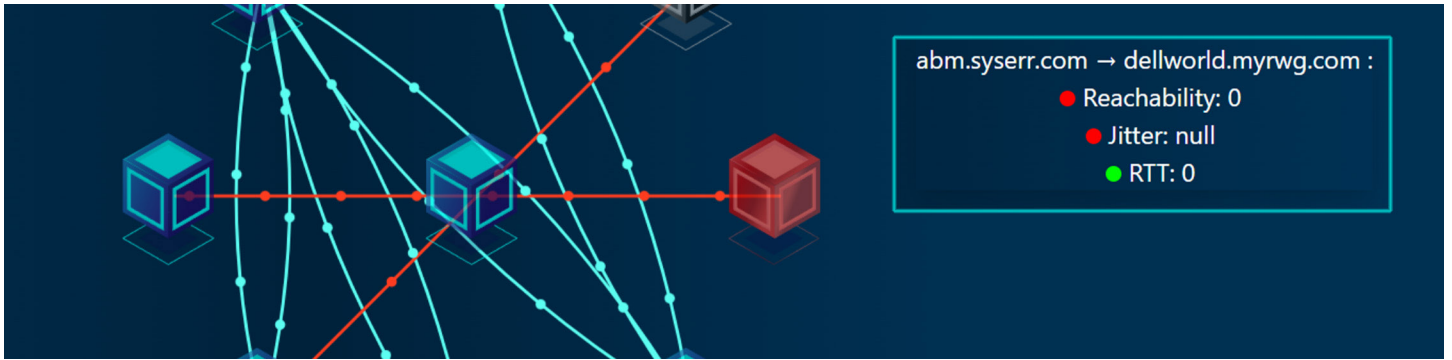
SD-WAN Fleet Manager Visualization

For each WireGuard tunnel between two sites, two Fleet Tunnel Link records are created to represent packets going in each direction. (i.e., Link 1 for Node A to Node B, Link 2 for Node B back to Node A). A ping target is created and assigned to each tunnel, with the target being the tunnel's remote endpoint. The links begin to record Tunnel Metrics: RTT, reachability, and jitter data (min, max, average). These metrics are compared against health thresholds to determine whether each tunnel is healthy, needs attention, or is offline.

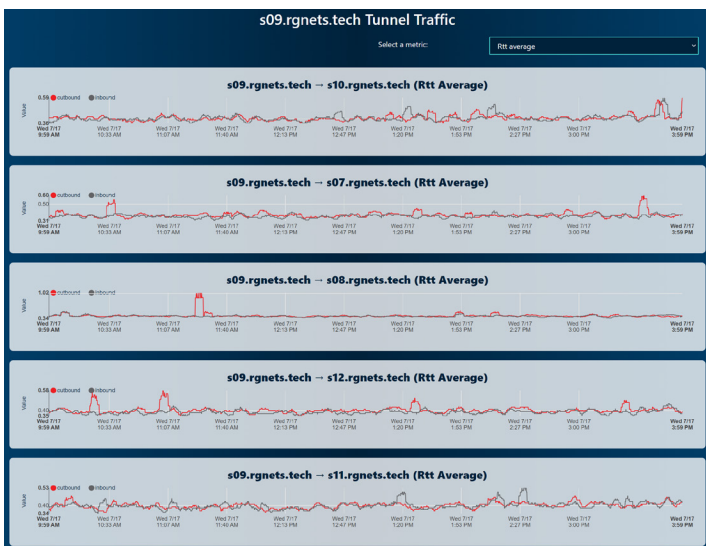
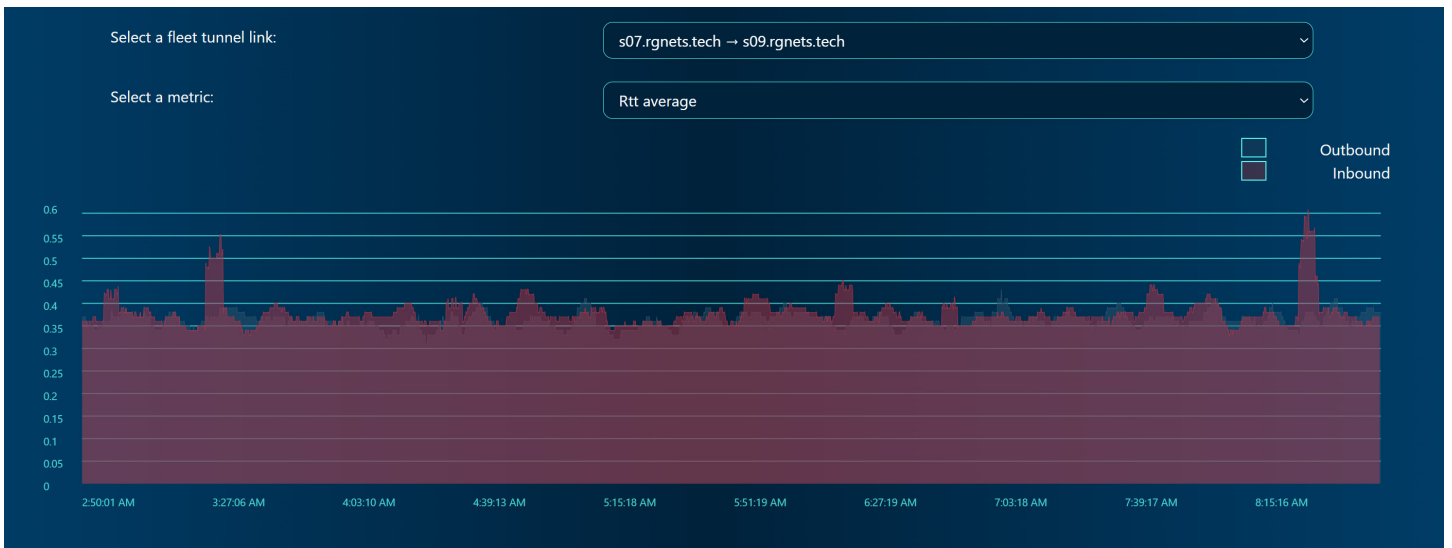


Hovering over a link will display this basic info, along with a green, yellow, or red indicator of the tunnel's general health.

Offline links will appear on the diagram in red, and on hover, they will indicate which metric is failing to meet the standard.



At the bottom of the page is a graph depicting a quick overview, outbound and inbound, of an operator-selected metric for an operator-selected tunnel.



Clicking on a node in the diagram renders a new view, displaying more detailed graphs of outbound and inbound traffic for an operator-selected metric for every tunnel associated with the node.

With the SD-WAN Fleet Manager Visualization tool, operators can easily monitor the health of each network tunnel, alerting them to tunnels needing attention and avoiding offline tunnels.



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