



THE rXg FLEET MANAGER

A Comprehensive Overview of Centralized Management
for RG Net's Revenue eXtraction Gateway



The rXg Fleet Manager

The rXg Fleet Manager provides a robust and efficient tool for managing multiple geographically distributed RG Nets revenue eXtraction gateways (rXgs), enabling effortless operations and scalability. This whitepaper provides a technically detailed overview of the features and capabilities of the rXg Fleet Manager, including geographically distributed Fleet Nodes, configuration templates, centralized upgrades, and more.

Introduction

The revenue extraction gateway (rXg) by RG Nets is a comprehensive solution for service providers, integrating a full-scale edge network head-end that optimizes revenue, reduces expenses, and easily scales. By leveraging the rXg Fleet Manager, operators can enhance the capabilities of the rXg platform and manage multiple rXg devices from a single interface. This whitepaper delves into the features and benefits of the rXg Fleet Manager in depth.



Configuration Templates

The Fleet Manager equips operators to effortlessly push configuration templates to individual or multiple Fleet Nodes and Fleet Groups, ensuring instant updates and synchronization across the rXg fleet. This feature enables operators to modify pricing, manage administrative access, configure SSIDs and VLANs, or deploy new virtual machines (VMs) with a single click. A flexible, domain-specific language (DSL), allows operators to create configuration templates for dynamic generation of node-specific configurations based on variables such as location, customer type, or other attributes.

Centralized Upgrades

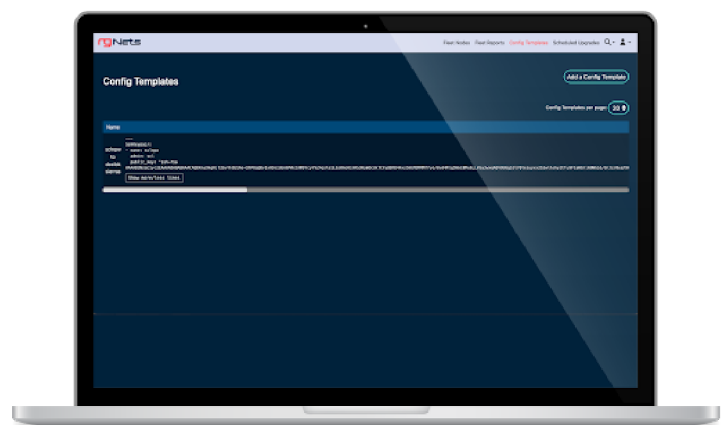
With the rXg Fleet Manager, operators can schedule upgrades for one or multiple Fleet Nodes and Fleet Groups. Throughout the upgrade process, real-time status information and detailed reports on successes and failures are provided. The Fleet Manager supports parallel upgrades, minimizing downtime and ensuring consistent firmware and software versions across the fleet.

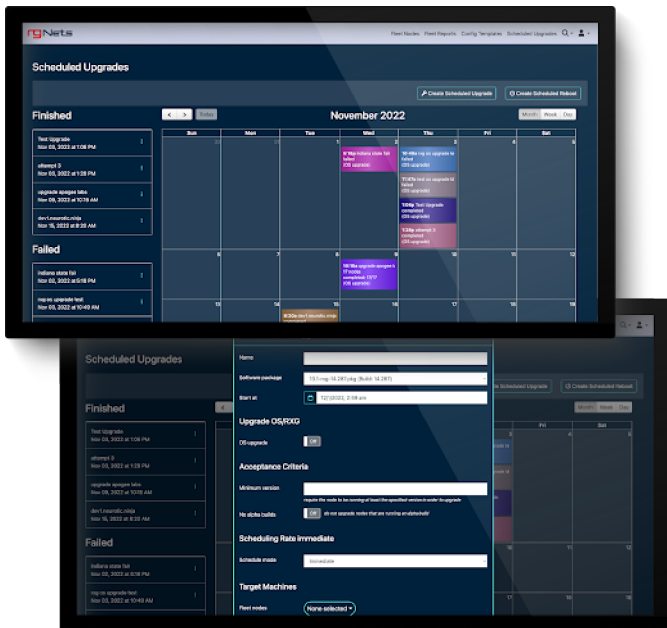
Fleet Nodes & Architecture to Distributed Fleet Node Architecture

Fleet Nodes are geographically distributed rXg devices that represent individual venues. While most Fleet Nodes are standalone rXgs, some can be configured as rXg clusters to enhance resilience and performance. The Fleet Manager, typically deployed in a centralized location, operates on either a singular, physical rXg or a symmetric pair of rXgs for high availability. These Fleet Nodes establish secure online communication with the Fleet Manager, delivering statistics and receiving instructions.

Multi-Tenant Fleet Group Organization

The Fleet Manager GUI provides a view of fleet groups, displaying fleet nodes, their health status, and real-time updates. It supports multi-tenant role-based access control, allowing administrators to oversee and manage their entire fleet at a glance. The monitoring dashboard offers comprehensive information on node performance, including bandwidth usage, packet loss, latency, and device-specific metrics.





Centralized Backup Repository

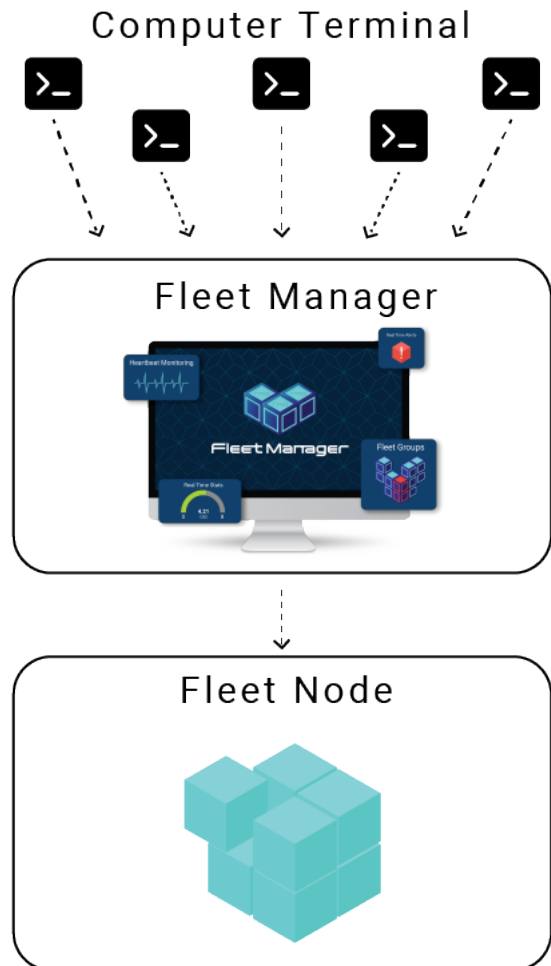
The Fleet Manager is a centralized backup repository for Fleet Node backups, with backup count and size limits dictated only by hardware constraints. Backups are securely encrypted and compressed, optimizing storage and transmission efficiency. This centralized backup repository enables administrators to swiftly restore a fleet node's configuration or recover from hardware failures, thus reducing the time and effort required for disaster recovery.

Centralized Authentication

The rXg Fleet Manager streamlines authentication across the entire fleet, ensuring end-user devices retain access profiles across multiple properties and facilitating user profile updates from a single dashboard. The Fleet Manager is compatible with various authentication systems, such as RADIUS, LDAP, and OAuth, as well as on-premises and cloud-based billing and user management platforms.

Bastion Host

The Fleet Manager can serve as a proxy, permitting administrators to access the CLI and GUI of Fleet Nodes while deploying ACLs to limit internet exposure. It supports secure remote access through ACLs, SSL proxy, or VPN as a bastion. This bastion host feature adds another security layer, safeguarding Fleet Nodes from unauthorized access.





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