# Cruise Ships

WITH THE REVENUE EXTRACTION GATEWAY

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## Cruise Ship Connectivity

In today's world, cruise ship guests expect seamless, secure, and high-quality connectivity throughout their journey. The rXg is a comprehensive solution that caters to the unique networking requirements of cruise ships. This white paper provides an in-depth technical overview of rXg and its applicability for cruise ships.

## Multi-Tenant Experience with Integrated Billing

The rXg enables cruise ships to offer guests a variety of service tiers with different bandwidth rate limits and transfer quotas. The system utilizes Deep Packet Inspection (DPI) to ensure real-time bandwidth management and enforce quota limitations. Guests can choose their preferred service tier, which can be instantly billed and provisioned. Billing options include integration with the onboard guest folio or direct payment via credit card.

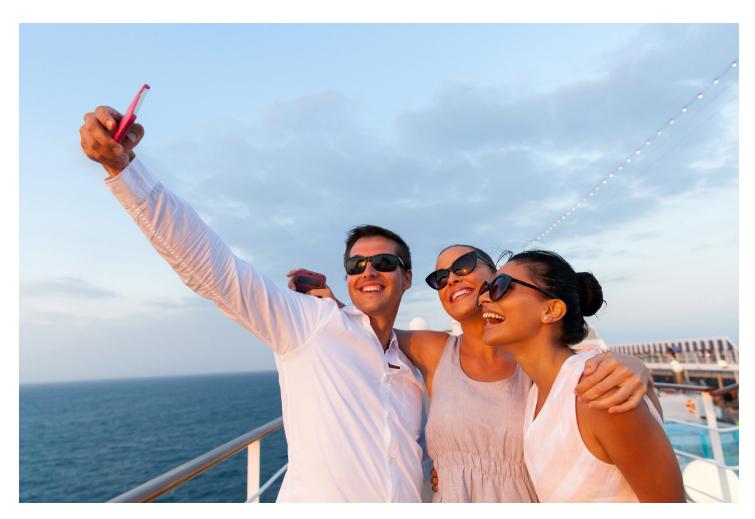## Flexible Access Restrictions and Sub-Accounts

Guests can define access restrictions for their party using the Network Access Control (NAC) feature, including time-of-day and content filtering. The primary guest can allocate access to party members and manage billing for sub-accounts and sub-tiers of access through a user-friendly interface.

## Personal Area Networks

The rXg supports personal area networks for guests, allowing them to share Layer 2 connectivity with ship devices in their cabins. The system uses micro-segmentation to isolate traffic between different personal area networks, ensuring privacy and security. This feature enables seamless casting to in-cabin audio and video devices.

## Location-Based Service Integration

The rXg can report guest locations to an onboard guest management system using geolocation data from wireless access points and network switches. The system can notify staff based on geofencing with space and time considerations. For example, food and beverage staff can be alerted when a guest is at the pool area, with folio integration providing insight into the guest's recent drink orders.

## SD-WAN Services and Policy-Driven Uplink Management

Cruise ships benefit from rXg's SD-WAN services that enable policy-driven management of multiple uplinks. While at sea, ships can utilize multiple redundant satellite uplinks. When near the shore, the system can automatically switch to point-to-point or RAN terrestrial links based on predefined policies. Traffic shaping algorithms ensure optimal utilization of available bandwidth, improving guest experience and network efficiency.

## Scalability and Security

The rXg is designed to scale alongside the success of your business, making it ideal for cruise ships with varying connectivity needs. The system provides tightly integrated network services required to deploy a secure Zero Trust Network Architecture (ZTNA), ensuring the safety and privacy of guests' data.

## Ease of Management and Fleet Manager

The rXg combines the functionality of multiple systems into a single platform, simplifying network management for cruise ship operators. Fleet Manager allows administrators to easily manage multiple devices, configurations, and software updates, streamlining the deployment and maintenance process.

## Conclusion

The rXg is a comprehensive solution that meets the unique connectivity demands of cruise ships. Its ability to provide a secure multi-tenant experience with integrated billing, flexible access controls, personal area networks, location-based service integration, SD-WAN services, and policy-driven uplink management, along with the Fleet Manager feature for simplified management, makes it an ideal choice for cruise ship operators seeking a robust, scalable, and easy-to-manage networking solution.