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## Introduction

Every day, we rely on Wi-Fi to power our personal and professional lives. However, the experience of connecting to networks can still feel cumbersome and outdated. Think about the last time you left home: at each stop—whether at the airport, a hotel, or a coffee shop—you had to ask for passwords, navigate unsecured networks, or struggle with systems like certificate installations or MAC address bindings with 802.1x. These processes disrupt the user experience and leave devices vulnerable to security risks.

Modern privacy features like MAC randomization render traditional solutions like MAC binding ineffective, creating a greater disconnect between evolving technology and current Wi-Fi standards. Additionally, seamless and secure roaming between networks remains elusive, with re-authentication required at every step. The result? Frustrated users, inefficient systems, and networks that fail to meet the demands of a connected world.

It's time to rethink how Wi-Fi networks operate and deliver a solution that's both effortless and secure.

## RUCKUS Networks with RoamingIQ

RoamingIQ's VAULT™ solution is an innovative SaaS platform that enables secure, seamless roaming between Wi-Fi networks using WPA security standards. By integrating the VAULT solution with RUCKUS® advanced Wi-Fi technologies—including RUCKUS SmartZone™ controllers, and the RUCKUS One® and RUCKUS Unleashed™ solutions—we redefine how users experience Wi-Fi connectivity. With the VAULT solution, users enjoy unparalleled security, device compatibility, and a consistent connection experience across all VAULT-enabled networks. This platform eliminates the need for certificates and supports all Wi-Fi devices globally, giving users full control of their connection experience.

When integrated with RUCKUS' cutting-edge infrastructure, the VAULT solution leverages RUCKUS' scalable architecture, dynamic pre-shared keys (DPSK), and intelligent network management tools to create a seamless and secure global Wi-Fi ecosystem.

Additionally, the VAULT solution can integrate with any subscriber management platform (CRM, PMS, etc.), enabling the management of Wi-Fi credentials, the monitoring of data usage, and the streamlining of billing and other integrations. For property owners, the VAULT solution offers flexibility to onboard, remove, or manage connections across multiple locations, all while applying tailored

network policies across your RUCKUS network. The solution also facilitates secure communication with residents, optimizing privacy and security. Imagine the convenience! A resident relocating within a community portfolio with RUCKUS networking infrastructure won't need to worry about reconfiguring their Wi-Fi settings. With the VAULT solution, service providers and property owners can offer a truly seamless experience across multifamily communities.

## Better User Experiences

In traditional Wi-Fi networks, users must manually connect to each new network. Public Wi-Fi often uses shared or no password at all, leaving connections vulnerable to cyberattacks. While multi Pre-Shared Key (PSK) solutions like Dynamic PSK™ technology improve security, they don't inherently include roaming or password delivery mechanisms.

With VAULT-enabled networks integrated into RUCKUS systems, users experience:

- **Effortless Roaming:** A single, secure password connects users automatically across VAULT and RUCKUS networks worldwide.
- **Enhanced Security:** Unique passwords for each user/device, stored in the VAULT cloud, eliminate the vulnerabilities of shared passwords.
- **Universal Compatibility:** Supports all devices, from smartphones to IoT devices, without requiring certificates or MAC address registration.

*Example Scenario:* A user connected to their home network powered by RUCKUS Unleashed technology travels to an airport with a RUCKUS SmartZone-enabled network. Their device automatically connects to the airport's secure Wi-Fi using their home network PSK. Upon arrival at a hotel managed by the RUCKUS One solution, their device seamlessly connects without manual intervention. Each connection remains secure, promoting privacy and usability.

## Transformative Technology Solution

### Traditional Networks

Traditional Wi-Fi networks rely on a single SSID and password. Adding another network requires an additional password, with no link between the two. Roaming is not possible, and managing passwords across multiple locations is cumbersome and insecure.

### RUCKUS-Enhanced Multi-PSK Networks

RUCKUS' Dynamic PSK technology enables multiple passwords for a single SSID, enhancing network security and user management. Each user or device gets a unique password, reducing security risks. However, DPSK alone lacks global roaming capabilities and requires manual password distribution.

### VAULT Networks with RUCKUS Integration is the answer!

VAULT solution transcends these limitations by offering a global-PSK service. All Wi-Fi passwords are stored in the VAULT cloud, enabling seamless roaming across networks and SSIDs, regardless of the access point or controller manufacturer. By integrating VAULT technology with RUCKUS' platforms, we achieve the following:

- **Leverage RUCKUS SmartZone Controllers:** Centralized network management enables scalable deployments and efficient password provisioning.
- **Maximize RUCKUS One Capabilities:** Unified cloud management integrates seamlessly with VAULT, enabling simplified operations and enhanced analytics.
- **Enhance RUCKUS Unleashed Technology for Small Deployments:** Cost-effective and easy-to-manage networks gain global roaming functionality, delivering enterprise-grade experiences.

## Benefits Summary

- **Global Roaming:** Users move effortlessly across VAULT-enabled networks, powered by RUCKUS technologies, with automatic, secure connections.
- **Cloud-Based Management:** Integration of VAULT's cloud-based password management with RUCKUS SmartZone and RUCKUS One solutions enables scalable, efficient deployments.
- **Universal Device Support:** VAULT technology is compatible with all Wi-Fi devices using WPA standards, from IoT to legacy devices.
- **Simplified Deployment:** RUCKUS Unleashed solution gains enterprise-grade functionality with minimal setup time and no additional hardware.
- **Enhanced User Control:** Users manage their unique passwords, enhancing security and ease of use without relying on IT teams or pre-installed certificates.

## Conclusion

The VAULT solution's integration with RUCKUS revolutionizes Wi-Fi connectivity, combining global roaming capabilities with RUCKUS' advanced technologies. Together, they help deliver a secure, seamless, and scalable network experience. Whether for a small business using RUCKUS Unleashed solution or a large enterprise deploying RUCKUS SmartZone controllers, VAULT technology empowers users to connect effortlessly and more securely.

With nearly 500,000 device connections at any given moment, VAULT solutions continue to redefine Wi-Fi. By partnering with RUCKUS, RoamingIQ provides secure, user-friendly, and universally compatible networks that are within reach for all.

Transform your Wi-Fi experience today with VAULT and RUCKUS solutions.

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