



# Redwall Mobile—Beyond Consumer Grade



## OS Instability Undermines Enterprise Missions

There is an increasing need to deploy enterprise-grade Tablet computers for telework, telehealth, logistics, maintenance, and construction applications. These activities correspondingly involve a mobile workforce operating at remote locations often in austere settings. Environmental constraints such as low bandwidth or infrequent connectivity to the organizations' host networks limit the frequency and size of over-the-air authentication and operating system and application patch-updates. These off-deployed mobile tools host mission-essential applications and connected peripheral devices that may be impacted by forced changes to the host operating system (OS), placing a premium on stability. Frequent operating system updates to fix flaws, patch vulnerabilities, and add features undermine the utility of these devices, greatly complicating and increasing the enterprise information technology (IT) support workload and cost.

## Redwall Mobile® Stabilizes the Tablet OS

Redwall Mobile® security, from Redwall Technologies, LLC provides a stable operating system architecture for Android OS devices that eliminates the patch and update *whack-a-mole cycle* of Microsoft Windows 10 and Apple iOS Tablet devices. Redwall Mobile is a commercially released, National Information Assurance Partnership (NIAP) certified mobile security solution that provides unmatched OS control, security, and privacy. Redwall Mobile® security is the only end-device cybersecurity solution designed specifically to protect, separate, and control classified information on mobile devices. Telework, Healthcare and Enterprise requirements for risk management, compliance and security are no less stringent. Why accept anything less than real security-and OS stability *delivered* when financial futures, missions and lives are at risk?

# Redwall Mobile® Security and Secure Persona®



## The Ultimate in Handheld Device Security

Redwall Mobile's® patented N-Persona Technology effectively turns one smartphone or tablet into as many device modes as desired, each with its own apps, data, settings, and security posture. Redwall Mobile® consists of modifications to the Linux kernel and Android operating system plus additional functionality. Redwall Mobile® is compatible with a wide variety of devices and technologies, which sets it apart from other software application-based solutions. Redwall Mobile provides features that even combinations of all competing device security technologies cannot match.

### Temporal Isolation in Addition to Cryptographic and Other Methods

Cryptographic and temporal isolation ensure there is no possibility of contamination across modes. It is as if the user is carrying separate devices within a single device. Contrary to containerization where sandboxing or virtualization is employed, these methods cannot provide the level of isolation available in Redwall Mobile®. Those containerized solutions still leave sensitive data in memory, making them highly vulnerable. Dedicated devices like the Blackphone are not the answer, requiring users to carry multiple devices for different roles or different levels of security. Redwall Mobile® consolidates all the features of a military-grade locked-down device with multiple personas in a single device. Our off-the-shelf devices are suitable for BYOD, reducing cost and complexity, all in a single device.



*Redwall Mobile® consumes minimal system resources and users do not know the device is hardened with military-grade protection.*

### Redwall Mobile® Technology:

- Has been commercially deployed domestically and internationally for more than five years
- Has blocked 100% of all zero-day attacks and malware for five years running
- Is completely configurable, from the number of modes to the availability of device resources
- Has also been deployed on IoT devices and is applicable to most connected devices