

Oceus Networks Secure Mobile Device Platform

CENTRALIZED APPROACH TO MANAGING DEVICES

A reliable network needs a reliable end user device to provide the best user experience. Oceus Networks' Secure Mobile Device Platform (SMP) consists of a suite of robust applications that improve the capabilities of Android devices to capture environmental metrics, sensor data collection, and then store and upload for centralized management—with no end user action.

SMP takes a centralized approach to managing settings for individual SMP applications. SMP consists of a set of standard features and a set of security features, with select features based on Oceus Networks patented technology.

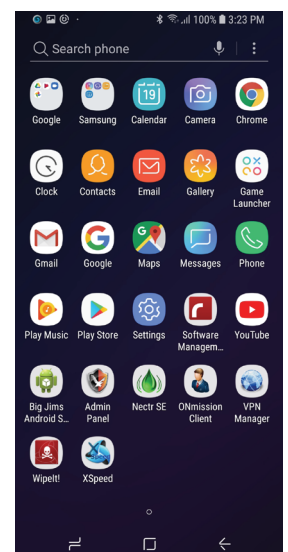
The SMP standard feature set includes Mobile Device Management (MDM) functions, such as LTE connection signal strength monitoring, sensor collection and GPS positioning.

The SMP optional security package enables DoD specific security requirements, such as encrypted dual-tunnel VPN communication, and includes Data-In-Transit and Data-At-Rest protection, local or remote device wipe, lock/logoff and password change. SMP provides connectivity to Oceus Networks Xiphos 4G/5G NR LTE

systems. Devices can be managed locally from the Admin Panel, or remotely from Oceus' ONmission Network Management System.

The screen to the right shows the following SMP components.

- Admin Panel
- VPN Manager
- ONmission Client
- WipeIt!
- XSpeed
- Nectr SE



The Secure Mobile Platform (SMP) includes a suite of Android applications supported on unlocked Samsung Galaxy Android mobile platforms.



ADMIN PANEL

Configure all SMP features, import and export settings for authorized users. The Admin Panel can manage bulk imports and exports of application settings to and from common file formats without having knowledge of other applications or components in use on the UE.

Settings are stored in a central repository on the UE that allows for the Admin Panel to modify settings as needed.



NECTR SE - LTE CONNECTION MONITORING

Provides end user radio information, GPS position and includes a patented Sensor Engine for gathering UE metrics. The information can easily be seen on the UI. Nectr SE is also used by the VPN Manager (part of the security feature set) to receive LTE connection and disconnection notifications.



XSPEED - CONNECTION PERFORMANCE

XSpeed is a diagnostic tool that provides the user with radio performance testing, such as connection throughput.



WIPEIT!

Used to quickly erase the entire UE. This application causes all user data, cache and the system image to be wiped, rendering the device erased and returned to an OEM/factory default state.



VPN MANAGER

The VPN Manager enables encrypted dual-tunnel VPN connection management with a single button click to VPN tunnels.

It also provides the ability for the UE to monitor the status of VPN tunnels and automatically reconnect the tunnels in the correct order as connectivity to a deployed Xiphos 4G/5G NR system.



ONMISSION CLIENT

The ONmission Client, based on patented technology, enables the ONmission Network Management system to remotely manage the UE.

The client provides connectivity to the server to allow the server to retrieve settings and send settings updates.

- Provides real-time device metrics
- Transfers collected data from the Nectr Sensor Engine to ONmission such as UE health, GPS Location and 4G/5G NR LTE radio details
- Provides the ability for ONmission to make application setting changes on the UE
- Manages bulk uploads and downloads of application settings
- Sync Notifications

SMP FIGURES AND FACTS

SECURE MOBILE PLATFORM (SMP)

SMP supports the Samsung Galaxy S20 Tactical Edition and is a provider of the unlocked enterprise edition for this device. Oceus offers complete installation and staging of devices for SMP and the Tactical Edition software.

DUAL TUNNEL SUPPORT

Use of the VPN Manager enables encrypted dual-tunnel VPN connection management and protection with a single button click. The UE then monitors the status of VPN tunnels and automatically reconnect the two tunnels as required.

SMP Components

	STANDARD	SECURITY
OCEUS ADMIN PANEL	Included	Included
ONMISSION CLIENT	Included	Included
NECTR SE	Included	Included
XSPEED	Included	Included
VPN MANAGER		Included
WIPEIT!		Included

Dual Tunnel VPN Client Options for Samsung Devices

GATEWAY		CLIENTS
OUTER	VMC or IOS	VIA
INNER	ASA	AnyConnect

Supported Network Gateways

Aruba Controller
CISCO IOS
CISCO ASA