

VisionWorks Mobile Test Platform

Enhanced over-the-air (OTA) testing

The VisionWorks Mobile Test Platform (MTP) is ideal for testing handset-based services and network KPIs. Able to be placed anywhere at the network edge, it houses, manages, and maintains a test agent running on a commercially available, unrooted mobile device. The small-footprint platform houses up to four SIMs per device, eliminates the need for rack space, and minimizes power requirements.

This advanced solution has centralized control to manage thousands of devices, including the ability to remotely reboot, and vastly reduces the need for field technicians to conduct implementation and maintenance activities.



Features

- Centralized control
- Unrooted mobile device
- Ideal for end-to-end testing of handset-based services
 - Voice
 - Data
 - Messaging
 - Applications

Benefits

- End-to-end network and application visibility
- True customer experience through use of commercial devices and software
- Simple to deploy and maintain, eliminates unplanned truck rolls to solve network/service issues
- Ability to detect issues before they impact customers

Assurance Over-The-Air Test Platform

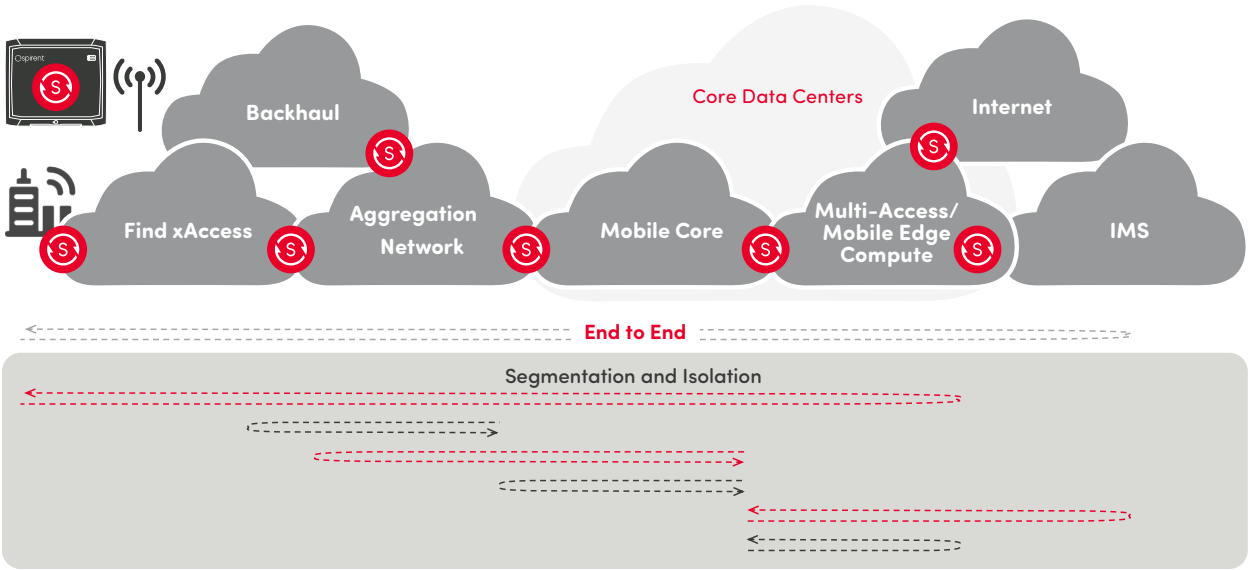


Figure 1. Diagram demonstrating MTP’s complete end-to-end network coverage

The MTP is combined with Keysight’s Virtual Test Agents to provide complete end-to-end network coverage. Running the same tests over the air and from mobile core locations enables segmentation of network issues and automated fault isolation.

Mobile Test Platform (MTP) Test Cases

Data	Voice	Messaging	Applications
UDP based Latency (One-way UDP)	VoLTE	SMS	YouTube
HTTPs	VoNR	MMS	Ookla SpeedTest
DNS	VoWi-Fi	RCS	Spirent HTTP Throughput Test
Ping	MO/MT		Video Calling
TraceRoute	POLQA MOS Full Reference Audio Quality e911		

Figure 2. Chart displaying four test cases for MTP: data, voice, messaging, and applications

With these capabilities, you can perform OTA testing across the lifecycle of the network and services, including:

- **Activations:** Most network problems are caused by a recent change. MTP can test after every service rollout or change, and measure end-to-end performance without drive testing.
- **Performance monitoring:** Run tests 24/7 from multiple points in the network to monitor network and service KPIs. Combining MTP data with transport and core agents lets you quickly segment issues.
- **Fault isolation:** Run workflows manually (such as when performing root cause analysis) or trigger them automatically by a failure or other network event. With the ability to test from multiple points in the network simultaneously, you can quickly isolate issues down to the specific domain, network function, and interface.

Mobile Test Platform (MTP) Specifications

Handset support	Samsung S20, S21, S22, S23, S24, S25 Apple iPhone 15, 16, 17 Google Pixel 6, 7, 8, 9 Additional handsets can be added on request Cell phone size max: 158.4 mm x 77.2 mm x 9.0 mm
Dimensions	10.25" x 9.125" x 3.5"
Power	110-240VAC 1.5A, *DC power options possible
Remote management	10/100/1000 Ethernet, Wi-Fi, Dedicated 4G/5G Centralized controller Proven to manage thousands of agents Simple "call home" based activation of new agents

Ordering Information

Product number	Description
VW-MTP-1UE-E	VisionWorks MTP: 1 handset, ethernet control
VW-MTP-1UE-EM	VisionWorks MTP: 1 handset, ethernet and 4g/5g mobile control



Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

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