

Spirent **VisionWorks E5**

Indoor/Outdoor Mobility Virtual Test Platform (VTP)

Highlights

- **VisionWorks E5** enables automation of mobile service activation testing, mobile service SLA monitoring & mobile SLA Fault Isolation workflows
- Mimics real customer activity by emulating mobile services including:
 - VoLTE/VoWiFi
 - Video
 - Data Services
 - SMS/MMS
 - Voice Mail
 - Emergency Services
 - Network Latency
 - OTT Apps
- Integrated management over-the-air with dual SIMs for remote deployments
- Over the air test interfaces with RF Band support for CBRS and traditional LTE bands
- Supports LTE OTA, LTE S1-U, S1-MME and Wi-Fi-RF interfaces for seamless fault isolation and troubleshooting of RF and non-RF performance issues

Mobility VTA Hosting with LTE/Wi-Fi Over-The-Air Testing

VisionWorks E5 Mobility VTP delivers a customer-centric diagnostic view of LTE and Wi-Fi services at mobile device, RAN and access interfaces. The E5 hosts mobility VTAs that emulate realistic user activity to proactively test mobile networks and services with indoor and outdoor mounting options.



VisionWorks E5 is a rugged virtual test platform for deployment in indoor or outdoor locations

Use Cases

VisionWorks E5 delivers the visibility and scalability you need to provision a wide variety of mobile services including VoLTE, LTE Data, Messaging and Video by testing over RF, fronthaul and backhaul interfaces.

- **Service Activation:** Improve the efficiency and scalability of wireless deployments for CBRS, IoT, MCPTT and 4G+ services. **VisionWorks E-Series VTPs** placed at enterprise business locations, MTSOs or COs enable automated and repeatable provisioning with “birth certificates” that deliver a segmented view of performance across RAN and Access interfaces for a wide range of wireless services.
- **Fault Isolation:** **VisionWorks E-Series VTPs** provide complete visibility of the mobile network performance from layer 1-7 across RAN, access and core networks, allowing rapid fault isolation without the need for multiple dispatches.
- **Performance Monitoring:** Constant visibility mobile network performance paired with mobile services view enables SLA-backed service levels and proactive alarm generation for Operations and Service resources.

Product Specifications

Measurement Modes

- **Active Test via LTE Modem:** L3-L7 OTA measurements with configurable TCP/IP, IMS, SIP, HTTP stacks.
- **Active Test via LTE Handset:** L1-L7 measurements for voice, data, messaging, video and OTT apps.
- **Active Test via virtual UE:** L3-L7 measurements with configurable TCP/IP, IMS, SIP, IPERF, HTTP, QUIC stacks.
- **Capture:** Packet capture including line rate pre-capture filtering.
- **Performance Monitoring:** 24x7 active tests to thousands of endpoints.

Test Features

- **Voice QoE (Quality of Experience):** End-to-end VoLTE and VoWiFi service assurance with automated root cause analysis in user plane and control plane.
- **Data QoE:** Over-the-air & wired data performance with support for Speedtest.net and iPERF support.
- **Latency QoE:** Traceroute based latency analysis.
- **Messaging QoE:** SMS and MMS messaging service support with end to end latency.
- **Emergency Services:** WPS/GETS/MCPTT services latency and availability.
- **OTT Video QoE:** YouTube streaming quality metrics based on resolution updates & buffer delay.

Mechanical and Environmental

- 7.87" (H) x 0.75" (W) x 0.5" (D) and 6.6 lbs.
- Power Input +9-36VDC or 110/220VAC (75 W max)
- Power Output 12V/1A DC out
- Operating temperature:
 - Industrial: -20° C to +70° C*
 - Commercial: -20°C to +55°C*
- Certification: EMC*, CE/FCC Class A*, RoHS*
- Construction: Steel

Management Interfaces

- 100BaseT RJ-45 IP
- LTE (optional): B1/B2/B3/B4/B5/B7/B8/B12/B13/B20/B25/B26/B29/B30/B41
- Wi-Fi (optional): 802.11a/b/g/n/ac

Projected performance specifications which may be revised upon commercial release of the product.

VisionWorks E-series VTPs are part of the **VisionWorks** suite.

For more information please visit: www.spirent.com/Solutions/Service-Assurance

Contact Us

For more information, call your Spirent sales representative or visit us on the web at www.spirent.com/ContactSpirent.

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