

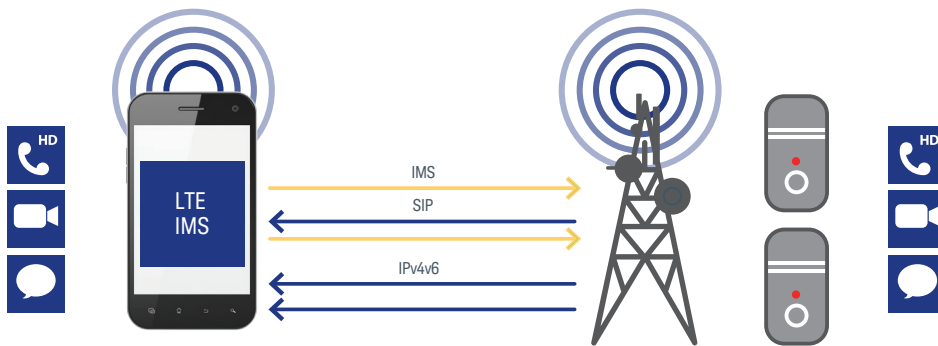
# Keysight Technologies

## Anite Application Testing



## Accelerate Device Approval by Tier 1 Mobile Network Operators

Testing higher layer protocols and application enablers is crucial for mobile operators to effectively roll out new services to their end-users. Anite application testing solutions from Keysight Technologies, Inc. enable you to cost-efficiently and rapidly conduct application testing associated with device acceptance test plans mandated by major mobile operators, including China Mobile, Verizon Wireless, AT&T and T-Mobile. Keysight's solutions also cover application conformance testing required by standardization organizations such as Global Certification Forum (GCF) and PTCRB. Keysight delivers testing capabilities through an integrated application server in SAS (Keysight's interoperability and performance test solution) or a compact S-CORE application test platform for Verizon Wireless related testing.

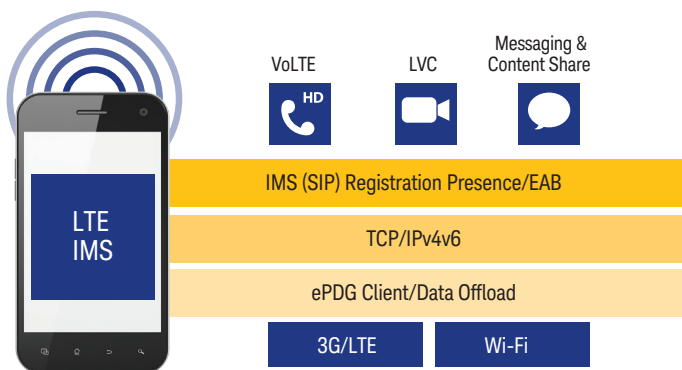


## Rapidly certify LTE IMS (IP Multimedia Subsystem) based services with Keysight's Anite application testing solution

Keysight's Anite application testing solution includes an application test suite, a rich and fully-featured user interface with powerful logging capabilities and a wide portfolio of test case packages for rapid mobile operator acceptance and device certification.

Keysight's Anite application testing solution:

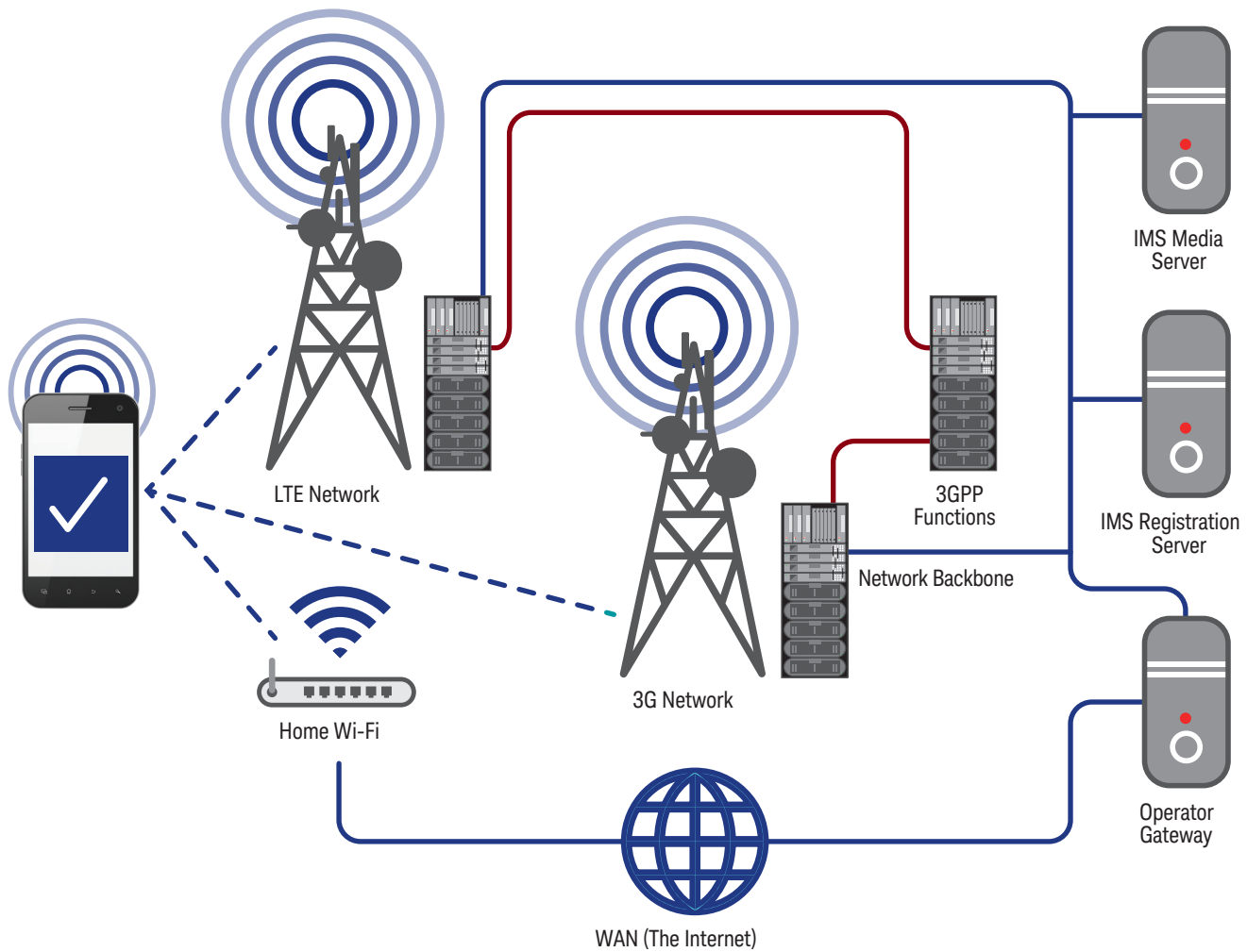
- Provides comprehensive support for LTE-IMS test plans mandated by major mobile operators
- Supports multi-carrier and multi-technology Wi-Fi/LTE/3G testing
- Enables existing users of SAS to simply upgrade their solution to extend test coverage
- Includes reliable, intuitive and feature rich software



## Access a wide range of test cases from a single vendor

Keysight enables you to access a wide range of test cases from a single test vendor, including interoperability, conformance, performance and application testing to verify the performance of a mobile device in terms of:

- Voice over LTE (VoLTE)
- LTE Video Calling
- Rich Communication Services (RCS)
- IP Multimedia Evolution (IPME)
- User Capability Exchange (UCE)
- Voice over Wi-Fi
- SMS and MMS over IMS
- IMS Registration and Retry
- IPv4 & IPv6 dual layer stack support
- Wi-Fi offloading
- Other IMS-based services 3G application testing such as DM and MMS



## Accelerate Mobile Operator Acceptance with a Simple Upgrade to Your Existing SAS Test Solution

Tier 1 mobile operators use lab-based application testing to ensure correct device implementation and feature coverage as well as address the handling of common error scenarios. Device manufacturers are able to accelerate mobile operator acceptance by simply upgrading their existing SAS interoperability and performance test solution, which includes a Keysight 9000 network simulator and an integrated application server.

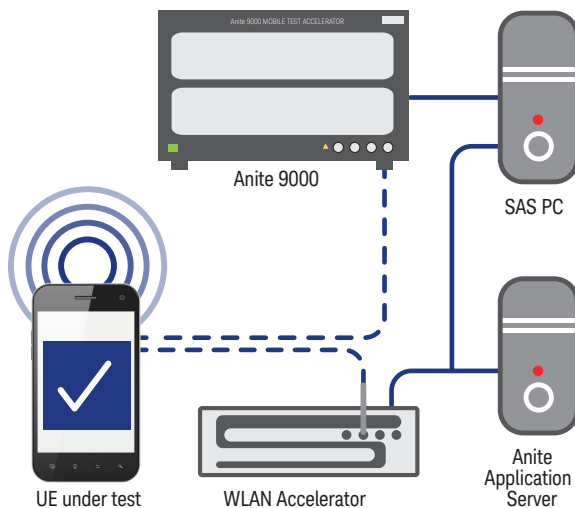
Keysight's SAS system supports all major mobile operator acceptance plans and includes a GUI, Test Campaign Manager as well as all required RF bearers. It fully integrates with the Keysight application server, which includes a complete LTE-IMS subsystem with RCS. LTE/Wi-Fi offload testing is performed either through using Keysight's WLAN accelerator or an external Wi-Fi access point.

Native signaling logs and traces at every layer, from the baseband to the applications layer, are supported as standard with this test solution. This includes modem layers, non-access stratum (NAS) signaling and IPv4/IPv6 (transmission control protocol (TCP) & user datagram protocol (UDP)). At the application layer an integrated Wireshark for session initiation protocol (SIP), real-time protocol (RTP) & real-time control protocol (RTCP), XML and HTTP tracing provides a set of powerful logging capabilities.

Keysight's Anite application testing solution enables you to comprehensively test IMS-based services and multi-media by accurately emulating the entire network from the RF and modem layers through to the packet, IMS Core and application servers. Testing is performed in an easy-to-use test environment using an antenna coupler or direct antenna connection.

Keysight's Anite application testing solution supports all major operator ecosystems including China Mobile RCS device test plans, which includes the following test categories:

- Registration and Deregistration
- Configuration of RCS client
- Messaging
- Group chat
- File transfer and share
- Message session relay protocol (MSRP) session establishment



## Accelerate Verizon Wireless Acceptance Testing with S-CORE – A Comprehensive IMS Approval Test Platform

For Verizon Wireless acceptance testing, Keysight offers a compact S-CORE standalone test platform with an integrated LTE-IMS radio and network subsystem. Widely used by device manufacturers across the globe, S-CORE provides critical time saving features for diagnostics. This compact (4U), standalone, desktop test solution is rich in diagnostic traces and logs.

As with the SAS test solution, S-CORE supports native signaling logs and traces at every layer, from the baseband modem layers to the applications layer including HTTP tracing.

The S-CORE unit is controlled via a modern Windows-based GUI on a remote PC/laptop, which is connected to the tester via IP/Ethernet over a network or directly to the tester. The GUI is easy to use and powerful enough to provide all settings necessary for complex IMS based testing.

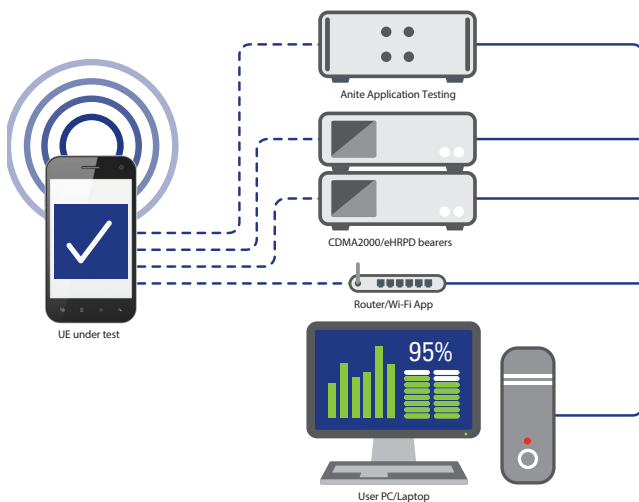
The S-CORE platform supports automated testing for 4G LTE-FDD, 3G WCDMA, 2G EDGE and offers you full control of all application protocol layers.

The solution covers all test plans relating to IMS, Wi-Fi data offload, RCS, IMS-VoIP and VoWiFi. All tests are validated by Verizon Wireless and support a complete IMS approval test platform.

S-CORE supports all Verizon Wireless LTE bands and a wide range of test cases validated by the carrier related to:

- IMS registration and retry
- Wi-Fi data offload
- RCS
- IMS-VoIP
- VoWiFi
- IMS-SMS
- AT Command extension for LTE-IMS terminal automation

## Compact Application Test Solution Validated by Verizon Wireless



Verizon Wireless Hardware Setup

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