

# Amdocs Drive Test Analytics Suite by actix



## Advanced voice calling analysis solution

### Comprehensive VoLTE/Wi-Fi performance analysis

Advanced voice calling via voice over LTE (VoLTE) and voice over Wi-Fi (VoWi-Fi), brings a variety of technical and commercial benefits to mobile network operators (MNOs). Yet the blend of radio and IP signaling that supports the service remains inherently complex, while customers expect performance to exceed – or at least match – 2G/3G voice.

This complexity isn't limited only to radio access. Beyond strict RAN requirements, the core and IMS must perform well and as mandated by the multi-domain nature of VoLTE/VoWi-Fi. Furthermore, the need for cross-domain analysis and end-to-end performance visibility makes analysis of advanced voice calling even more challenging.

### Building upon Amdocs Drive Test Analytics Suite by actix

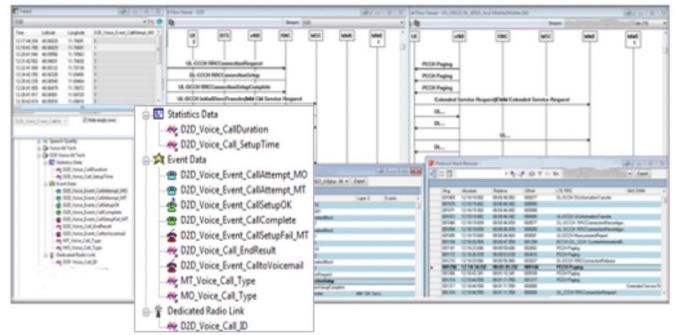
Amdocs Drive Test Analytics Suite by actix is the industry's leading desktop software for drive test data analytics. Amdocs Drive Test Analytics Suite by actix builds on this technology by harnessing drive test data to provide a hardware-independent, comprehensive foundation, enabling targeted, rapid, expert analysis of cross-domain VoLTE/VoWi-Fi performance.

launched in <b>1997</b>	<b>10,000+</b> licenses	<b>300+</b> customers
<b>50</b> based <b>only</b> on format type	file formats supported (approx) <b>350</b> based on format type <b>and tech</b>	support for over <b>50</b> HW vendors
<b>80%</b> efficiency gain (data post-processing)	<b>30,000+</b> attributes	<b>100+</b> LTE/LTE-A networks
<b>#1</b> multi-vendor desktop SW for drive test data post-processing	more than <b>500</b> queries	<b>200+</b> reports   events
<b>12</b> releases/ year	<b>93%</b> of users satisfied with support (2015 survey)	used in <b>6</b> continents

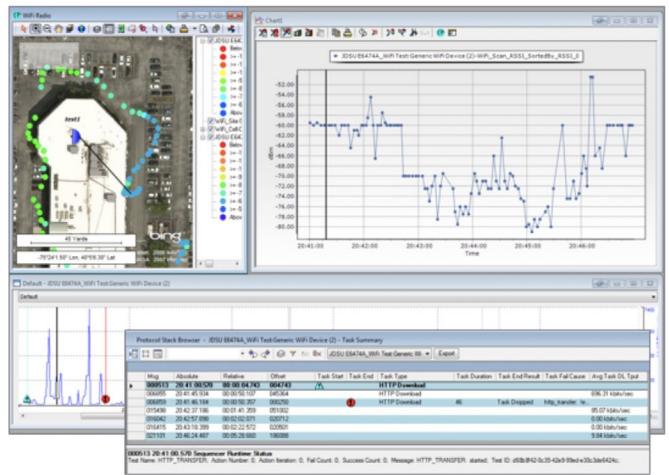
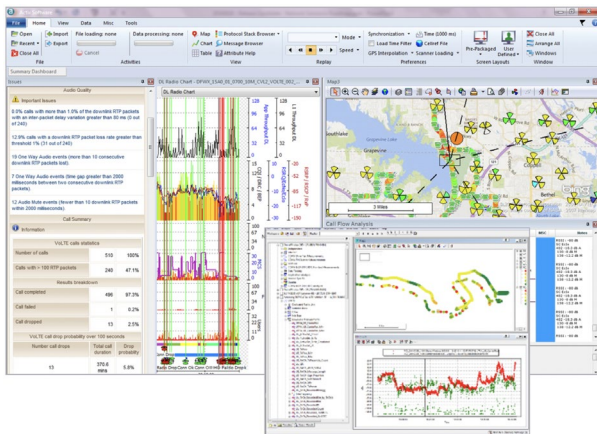
Amdocs Drive Test Analytics Suite by actix in numbers

## Targeted, rapid, expertise

Amdocs Drive Test Analytics Suite by actix combines the synergies of Amdocs Drive Test Analytics Suite by actix with Amdocs' voice calling expertise. Powered by Amdocs Drive Test Analytics Suite by actix on one hand, a product trusted by over 300 customers including Tier-1 MNOs and major equipment vendors, it 'productizes' Amdocs expertise on the other, to address the need for targeted, rapid, and expert VoLTE/VoWi-Fi analysis.



Device-to-Device (D2D) analysis



The solution leverages the following key Amdocs Drive Test Analytics Suite by actix capabilities:

- Cross-domain VoLTE/VoWi-Fi analysis
- Device-to-device (D2D) calling analysis
- VoLTE/VoWi-Fi interoperability analysis
- VoLTE health report (default version)
- End-to-end call flow viewer
- Pre-defined state views and
- Cross-RAT call analysis browser query
- Analysis of advanced voice calling customer experience, such as call quality mean opinion score (MOS) or incomplete calls (gone to voicemail)

VoLTE/VoWi-Fi interoperability analysis

Coverage KPIs				
KPI name	Description	Threshold	Value	
Signal strength	Average RSRP should be better than the threshold.	-13 dBm	87.6	OK
Signal quality	Average RSRQ should be better than the threshold.	10 dB	4.5	OK
Downlink coverage	Percentage of measurements for which both RSRP and RSRQ above threshold.	95 %	95.3	OK
Uplink coverage	Average PUSCH transmit power should be less than a threshold.	90 dBm	9.7	OK

Radio performance KPIs, RRC Connection				
KPI name	Description	Threshold	Value	
Block rate	Percentage of RRC connection that failed to setup.	5 %	0.0	OK
Setup time	Average RRC connection setup time.	10 ms	1.0	OK
Slow setup rate	Percentage of RRC connections with a setup time longer than a threshold: 10 ms.	5 %	0.0	OK
Radio drop rate	Percentage of RRC connections abnormally terminated.	5 %	0.0	OK
RRC re-est. failure rate	Percentage of RRC re-establishment procedures that failed.	5 %	0.0	OK
intra-F-HO Failure Rate	Percentage of intra-frequency handover procedures that failed.	10 %	0.0	OK
Inter-F-HO Failure Rate	Percentage of inter-frequency handover procedures that failed.	10 %	0.0	OK

Voice call KPIs				
KPI name	Description	Threshold	Value	
CSFB block rate	Percentage of CS fallback calls that failed to setup.	5 %	0.0	OK
CSFB setup time	Average CS fallback call setup time.	10 ms	1.0	OK
CSFB slow setup rate	Percentage of CS fallback calls with a setup time longer than a threshold: 10 ms.	5 %	0.0	OK
CSFB drop rate	Percentage of CS fallback calls that dropped.	40 %	0	OK
VoLTE block rate	Percentage of Voice over LTE calls that failed to setup.	5 %	99.9	OK
VoLTE setup time	Average Voice over LTE call setup time.	10 ms	1.0	OK
VoLTE slow setup rate	Percentage of Voice over LTE calls with a setup time longer than a threshold: 10 ms.	5 %	0.0	OK
VoLTE drop rate	Percentage of Voice over LTE calls that dropped.	1 %	0.3	OK
VoLTE high packet loss rate	Percentage of Voice over LTE calls with DL RIP packet loss rate higher than 1%.	80 %	100.0	OK
VoLTE high RPIV rate	Percentage of voice over LTE calls with more than 1% of DL RIP packets with RPIV higher than 80%.	5 %	100.0	OK

VoLTE SIP KPIs				
KPI name	Description	Threshold	Value	

VoLTE Health report

It also builds upon relevant engagements and Amdocs' advanced, award-winning\* Advanced Voice Calling solution.

\*Telecom Asia Reader's Choice & Innovation Award for Advanced Voice Calling Analysis

## Benefits

- Enhanced, cost-effective analysis of advanced voice calling
- Faster identification and resolution of issues that affect customers' experience of VoLTE/VoWi-Fi
- Peace of mind by relying on proven network expertise
- Less time spent on manual VoLTE/VoWi-Fi data manipulation and reporting
- Reduced risk of subjective or inaccurate analysis of VoLTE/VoWi-Fi performance
- Better MNO governance of vendors/teams who provide VoLTE/VoWi-Fi analysis
- All key benefits of Amdocs Drive Test Analytics Suite by actix, including no drive test equipment vendor lock-in

Building upon success since 1997, test equipment vendor independence and the trust of more than 300 customers.

## Why Amdocs

Amdocs is a preferred partner for tier-1 and tier-2 service providers across the globe, with a proven track record supporting projects during all phases of network rollout and acceptance including, but not limited to RAN, transport and core design, provisioning and troubleshooting services, pre/post-launch optimization, triage and NFV-O, for multi-vendor, multi-technology heterogeneous open networks.

For more information, visit:

[Network Deployment & Optimization](#)