



IoT Testing & Monitoring for Mobile Operators

These robots aren't going to test and monitor themselves...or are they?

The number of IoT devices keeps growing every day. From connected cars, to wearable health monitors, to smart clothes, to delivery drones, to robot vacuums...the Internet of Things is here and getting larger every day. Huge amounts of telemetry data is produced by these devices, often orders of magnitude more than what is necessary for normal operations across a mobile operator's network. Quite often these devices do not know when to complain about poor performance or make calls to help desks demanding to speak to a manager about how they can't connect to their favorite streaming service or that they can't get calls to go through when they switch network types. But these Things are critical to how we live our daily lives. As a society we have become dependent upon these Things working flawlessly for our days to progress in meaningful ways. They often free us from the burdens of doing repetitive tasks so we can pursue other causes. There is no substitute for the ease of use these Things provide and the conveniences they offer enable the global economy in ways that will have a profound impact for generations to come.

Now the hard part. How do mobile operators ensure that these Things can communicate in an accurate and timely fashion? Is it enough to provide spliced 5G connections for critical service tiers such as connected cars, or do operators actually need to test and understand how variations in radio, transport mediums, infrastructure variations, and backend service hand-off affects IoT devices? Without proactively understanding how these Things behave when running across your network, you are setting yourself and the Things to fail. It isn't enough to spot test and check, but rather Mobile Operators need to know the limitations and boundaries of their network and where critical bottlenecks may arise in the network. Lives may literally be on the line as more and more of the critical services we rely upon move to adopt more Things as part of their daily operations.

IoT Testing & Monitoring for Today's Proactive Mobile Provider

Apica has been monitoring critical services for almost 2 decades for some of the largest names on the Internet. Critical services such as banking, connected cars, streaming services, etc...have all been made better by using Apica's Ascent platform to proactively test and monitor critical service journeys. With IoT devices these problems become more complex because of the nature of Things to operate in the real world. Being able to test and monitor Things in context is critical to understanding how your network will service these devices. With Apica, Mobile Operators can understand how Things communicating across their network are performing in both pre and production environments by replicating Thing behaviors and producing only the metadata needed to ensure our reliance on Things is not misplaced.



Architectural Flexibility: Flexibility to support any infrastructure type as well as on-premise and cloud testing and monitoring options. If it has a network connection, we can test and monitor it.



Complexity Simplified: Easily build complex subscriber journeys that reproduce real business functionality with advanced scripting functionality and support from our team of streaming experts.



Business-critical Outcomes: Ensuring your SLAs for services performance are up to customer expectations. Before releasing new features or altering anything in the service path, operators can ensure successful outcomes by integrating full performance tests into their release cycle and benchmark their backend service delivery with associated services such as sign up, registration, and measuring service alteration/provisioning changes.



Continuous Intelligence: See results presented in Interactive dashboards with waterfall graphs, trend reports, and summaries providing reliable insights on performance and availability.



Apica Powerful Scripting Engines

► Flexible

Handles the most complex workflows
Expansion via plug-ins

► Scalable

Test / monitor any number of virtual users across any number of virtual machines

► Easy

No / low code use
Just hit record

Global Streaming Organizations Use Apica

The Apica Ascent platform is being used by Volvo to edge monitoring cases that other monitoring companies can't address. As an auto manufacturer they had advanced scripts that simulated two cars driving on a test track. Apica was the only solution that could help with these complex use cases. In addition, they needed a level of accuracy in their alerting that no other solution could offer.

"It's hard to put a value on that since it amounts to helping us save our reputation. We have found issues in our systems that our other tools—the tracing or logging—have missed. We have found them with Apica. It even helped us find out when AWS had an issue." – said a Volvo executive.

The Right Platform

Whether providing telecommunications services for institutions, corporations, or individual customers, all global telco companies need to significantly reduce internal monitoring management hours and lower overall costs.

Apica offers a unified testing and monitoring platform that can be used to solve the most challenging subscriber testing and monitoring scenarios, across platforms, devices, transport mediums, and infrastructures. Our advanced tooling and years of experience have helped some of the biggest names on the Internet plan, prepare, and execute application and service changes in a cost effective and highly efficient manner to the delight of their users. Let us show you what we can do.

Schedule a demo today →

Whether your Fortune 100 or the next big startup, Apica's best-in-class testing & monitoring platform helps companies ensure their products are always performing

VOLVO

sodexo

Husqvarna

Morgan Stanley