

# Keysight Services | PNT Testing

# Professional Services Overview

## Test and Validation Services Enabling Keysight PNT Testing Products and Solutions

The Keysight Professional Services team delivers the insights, expertise and support organizations need to build high-performance test and assurance functions. Keysight has established a global team of trusted and seasoned experts to support our customers' broad range of needs and address an array of business challenges — from lab to live. Keysight's portfolio of Professional Services supports organizations throughout the development cycle, helping ensure new market offerings perform as planned.

Enabling customers to realize even greater value from Keysight products and solutions, Keysight Professional Services include:

- Test scenario creation
- Implementation and integration
- Test automation
- Customer training
- Resident engineers



**Figure 1.** Keysight Professional Services help organizations build high-performance test and assurance functions

## Highlights

- Keysight Professional Services provide the help and insights needed to get the most out of your Keysight product investment
- Our services experts empower critical test and assurance functions on your behalf or deliver valuable skills to help you perform these functions yourself
- Eliminate critical downtime and avoid diverting essential in house resources
- Build a high level of productivity into product utility, test and assurance methodology, and automation frameworks

## Test Scenario Creation

Choose from an extensive database of scenarios built by Keysight. Alternatively, talk to us about custom scenarios to address your specific test needs. This service can be tailored to your needs and budget, with options including:

- **Scenarios playable on a Keysight simulator:** Accelerate your test program with pre-built scenarios for testing the functional operation, real-world performance, and receiver integrity of your positioning, navigation, and timing (PNT) solutions. Our library includes over 100 scenarios, with new scenarios being continually developed.
- **Scenarios playable on a record and playback system (RPS):** We can create your scenario in a Keysight simulator, record it for you on a Keysight RPS, and transfer the recording to you for playback on your own Keysight RPS. Alternatively, we can record a real-world scenario for you in any of our locations around the world, and provide you with the recording for playback.
- **Custom scenarios:** If the scenario you need isn't currently available in our library, talk to us about developing a custom scenario for you. Our PNT test experts can also advise on the most appropriate scenarios and testing methodologies for your requirements.

## Business Value:

- Have complete confidence in and maximize test credibility of results through expert guidance and superior equipment
- Get the right results first time, saving engineering hours and costs, and reducing risk

# Implementation and Integration

Services are focused on Keysight product and/or solution deployment, with a Keysight expert onsite. This involves all facets of the installation and integration within the customer environment, from site readiness analysis, through to functional testing or assurance validation. This includes system configuration baseline validation for conformance to standards and interoperability between vendor integrations with other systems, as well as security evaluation, to ensure the system is properly installed, configured, and ready to go. Each customer environment is unique and Keysight's implementation approach takes that into account.

## Features include:

- A hands-on and proven methodology for getting your Keysight system up and running in coordination with your test or assurance team
- Validation that your system is properly installed and integrated into your test or assurance environment
- Knowledge transfer to customer users and assistance with test or assurance scenario development and execution

## Business Value:

- Eliminate critical downtime and avoid diverting critical in-house resources
- Gain full value of the Keysight product investment with the assurance of optimal system performance
- Implement the lowest risk approach to systems integration, while accelerating and maximizing workforce productivity
- Reduce costs and operational overhead

# Test Automation

The test automation tool and service from Keysight involves installation, configuration, and implementation. Get set up quickly and correctly by our experts, and accelerate your PNT testing with Keysight test automation.

## Features of the test automation tool include:

- Run multiple scenarios consecutively
- Run expert preconfigured or custom test suites at a single click
- Optional custom test suites
- Multi device integration in an easy-to-use GUI
- Simultaneously test multiple devices
- Run multiple tests and iterations consecutively at a single click
- Specify pass/fail parameters
- Automatically generate customized reports

## Business Value:

- Free up valuable engineering hours and resources through accelerating the testing process
- Reduce costs through efficiency, reliability, and scalability
- Automated tests can be reused across multiple test cycles, reducing time and effort required to create and execute tests
- Consistent and reliable testing reduces the risk of human error
- Ability to generate common reports enables faster evaluation and development

# Customer Training

Quickly ramp up solution utilization, maximize team productivity, and foster in-house expertise with expert-led product training. Keysight offers comprehensive instruction on current and emerging technologies. Seasoned instructors teach hands-on courses delivered either at your premises, at our UK facilities in Paignton, Devon, or via videoconference.

## Offerings include:

- **Interactive learning:** All Keysight training courses feature a mix of educational presentations and interactive workshop activities where teams will apply what they've learned
- **Comprehensive materials:** Every delegate will receive a full pack of training materials to refer back to
- **One to six days' duration:** A typical course includes one day of training on the general working principles of using your Keysight simulator, followed by one or two days of training tailored to your intended use of the Keysight equipment
- **Combine with installation and onboarding:** Keysight training services may be combined with our installation and onboarding service, allowing you to leverage the full value of your Keysight investment from day one

## Business Value:

- Improve the efficiency of in-house testing and expertise with qualified training services
- Maximize your investment and utilize the full testing capabilities of your Keysight product
- Ramp up team expertise quickly, minimize time to test and accelerate time to market
- Employ a wide range of training options tailored to your specific needs
- Avoid testing pitfalls with guidance from seasoned Keysight experts

## Sample Training Topics Include:

- Introduction to GNSS
- Overview of Keysight hardware, software, and customer support portal
- Scenario creation workshop
- Interference modeling
- Simulator calibration and system updates/upgrades
- Multipath control
- Vehicle motion and remote control
- Additional Keysight software utilities

# Resident Engineers

Keysight provides the targeted expertise you need to meet your requirements in both the short and long term. Resources can be deployed globally and assist both remotely and on-site to accommodate your needs. Accelerate projects through strategic resource schedule management and maximize productivity, delivering faster ROI from investment to solution deployment.

## Resident engineer projects may include:

- **Enhanced support engineer:** Traditional hands-on support expertise provided streamlined and prioritized; ad hoc implementation services to demonstrate product capabilities
- **Test and assurance engineer:** Creation and execution of custom test or assurance validation cases; demonstration, consultation, and leadership in development of test or assurance methodology for product/technology; creation of repeatable test cases using off-the-shelf Keysight tools and equipment
- **Automation engineer:** Setting up customer environment elements and framework; analysis of test plans; creation of reference test and framework assets; facilitating development of software to create automated test cases using Keysight products and test automation tool

## Business Value:

- Augment customer team during skilled resource shortages and avoid costly hiring, training and managing fulltime resources
- Meet program schedules with increased flexibility while maximizing workforce productivity, reducing costs and operational overhead
- Build high level of productivity into product utility, test and assurance methodology, and automation frameworks
- Use Keysight products and gain direct access to Keysight groups (i.e., Engineering and Support Services) and custom test plans and solutions with prioritized treatment on customer needs
- Get it right first-time saving cost and meeting strict deadlines
- Improvement in test procedures and quality of product

# The Services Delivery Process



**Discover:** Gather requirements; perform gap analysis

**Define:** Identify solutions that scale seamlessly to integrate flexibly with disparate systems; present roadmap; illustrate ROI

**Develop:** Create next-gen, end-to-end solutions driven by our technology and service portfolio

**Deliver:** Manage projects; ensure outcomes are measurable, tracked by KPIs and improved over time

**Debrief:** Ensure customer requirements and expectations have been met

## Our Customers

Keysight has been a pioneer since the advent of network, wireless and GNSS testing, validation and assurance, and has provided services to customers across a broad range of global industries. These varied business sectors include global navigation satellite systems, aircraft and automotive manufacturers, as well as telecommunications and wireless service providers, network equipment manufacturers, petroleum, education, the media, financial institutions and stock exchanges, technology enterprises, and publishing giants. Keysight also services governments worldwide, which includes military and space agency projects.

# Keysight Expertise

Our test engineers and consultants have many years of professional test experience, combined with in-depth knowledge of PNT testing hardware and software. We can help you get started faster and make full use of Keysight's expertise to assure every aspect of your product's PNT capabilities.

## Keysight PNT Testing Services Portfolio

Keysight Professional Services are part of a comprehensive suite of services. Keysight's portfolio of services for an initiative's entire lifecycle — **from lab to live** — helps organizations achieve their short-term testing and validation goals, while building a strong framework for future and enduring business success.



### Managed Solutions

Performing strategic operational functions for customers:

- Test as a service
- Lab as a service
- Field data recording as a service
- Benchmarking



### Professional Services

Providing a broad range of test and validation services enabling Keysight products and solutions that involves:

- Test scenario creation
- Implementation and integration
- Test automation
- Customer training
- Resident engineers



### Consulting Services

Supporting custom projects, helping customers with specific strategies and objectives:

- Assessment and strategy
- Planning and design
- Test methodologies
- Risk analysis

For more information on Keysight's PNT Testing Services, please visit:

<https://www.spirent.com/products/pnt-testing-services>.

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](http://www.keysight.com).



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