

## Contribute. Collaborate. Create.

Sometimes vendors forget: the real point of a software tool is to enhance our abilities. The Open Test Automation Project, or OpenTAP, is a growing community of test engineers dedicated to the idea of *effortless automation*.

The core of OpenTAP is an open-source test sequencer, and the community is continuously adding plugins and solutions that support faster development, new functionality and optimization of *software that excels* now, and next time.

We invite you to join us as we contribute, collaborate and create—together.



### Transform automation in test and measurement

OpenTAP is a scalable architecture that enhances and boosts automation creation within the test and measurement (T&M) ecosystem. The platform embodies three core ideals: simplicity, scalability and speed.

#### *Simplicity*

##### **Develop new automation solutions—effortlessly**

- Get started quickly with seamless installation, useful examples, and a community that has your back
- Build on your existing skills to develop your solutions, no new language to learn
- Start with a proven foundation of automation capability, using only what you need and nothing you don't

#### *Scalability*

##### **Create adaptable plugins that solve unique requirements today and tomorrow**

- Extend your ideas, methods and solutions with a modern, modular software architecture
- Encapsulate your IP as plugins and build new, innovative solutions through re-use, not re-invention
- Benefit from worldwide collaboration that makes test automation better for all

#### *Speed*

##### **Accelerate the development, execution and optimization of test software**

- Save years of development time with the programmable sequencing engine and an extensible plugin architecture
- Leverage community resources, peripheral tools and core capabilities that help you focus where you need to
- Trust in the performance of OpenTAP: Optimized for manufacturing, yet robust enough for use in R&D and validation

# OpenTAP

## Project Overview

### Tap into a vibrant and collaborative community

The OpenTAP community is a place for developers to inspire each other through shared perspectives, ideas, examples and code. As a member of the OpenTAP community, you're free to contribute, enhance, modify, and use all code, integrations and solutions. Whether you choose to engage as a user, a contributor, or both, the community will welcome you with open arms.



### Embark on revolutionary change with a proven architecture

Transforming test automation starts with OpenTAP's simple and extensible plugin architecture. It's already proven its value in hundreds of products and applications, providing a foundation for fast, flexible automation solutions in R&D, design verification test (DVT) and manufacturing. The key elements are a programmable sequencing engine, a user interface, instrument drivers, custom device under test (DUT) drivers, and results listeners.

### Transform your team's efficiency

Our open-core approach promises to go beyond the typical disjointed, resource-intensive in-house efforts that consume valuable resources—budget, support, and maintenance. Building automation solutions on OpenTAP fosters innovative gains in test efficiency and optimization, ultimately reducing your cost-of-test.

### Deliver better business results

The Open Test Automation Project aims to help your organization achieve new economies of scale and faster time-to-market for product creation. By opening core aspects of test automation, OpenTAP enables developers to meet their toughest goals in demanding technologies such as 5G, automotive, and beyond.

#### Take a major step forward

The founding members of OpenTAP are Nokia Corporation and Keysight Technologies, Inc. For many years, Nokia relied on either closed commercial test-automation products or completely homegrown platforms that devoured scarce in-house resources. Keysight believes OpenTAP is a revolutionary step forward in T&M because it radically enhances the efficiency of software development for automated testing.

### Get involved: OpenTAP is what *you* make it

Engage with the OpenTAP community at [opentap.io](https://opentap.io), at [GitLab.com/OpenTAP](https://gitlab.com/OpenTAP), through social media, and during gatherings held around the world. It's all about contributing, collaborating and creating—together!