

# Automated Qt and Web GUI Testing with froglogic Squish on Actual Hardware Using Timesys Embedded Board Farm (EBF)

Squish + Timesys EBF = Highest UI quality, no matter where your boards are located

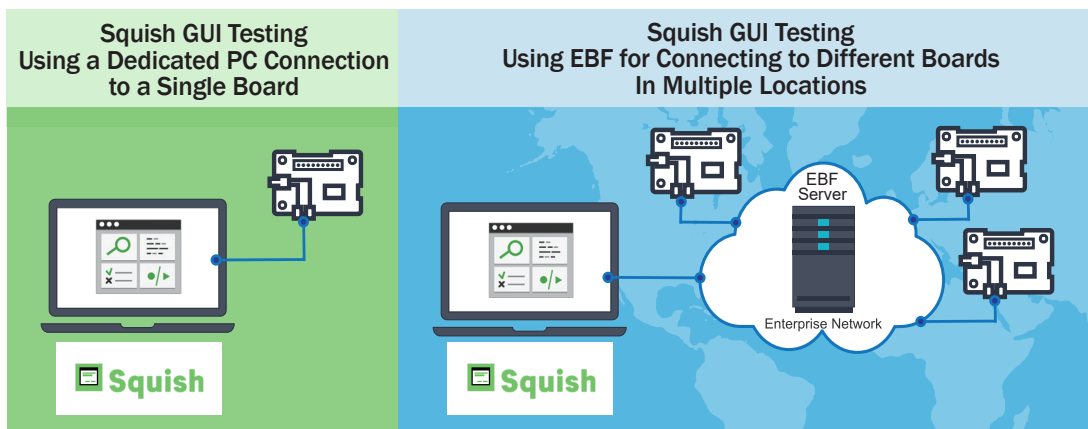
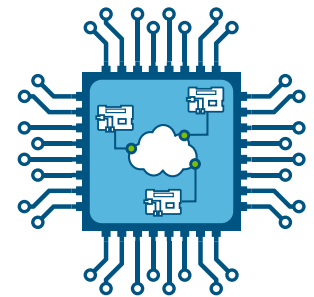
froglogic's Squish provides the ability to automatically test Qt based and Web User Interfaces without the need for human interaction, helping to accelerate tested, high-quality UI product releases.

When it comes to embedded devices, in order to automate testing on your actual hardware using Squish, you're tasked with either running Squish locally or via a local network connection. But this local PC/local hardware solution does not scale, often leaving test teams faced with the challenges associated with limited hardware constraints and not having timely access to hardware resources.

To scale automated testing of Qt and Web UIs using Squish, you need the ability to run it on a remote target.

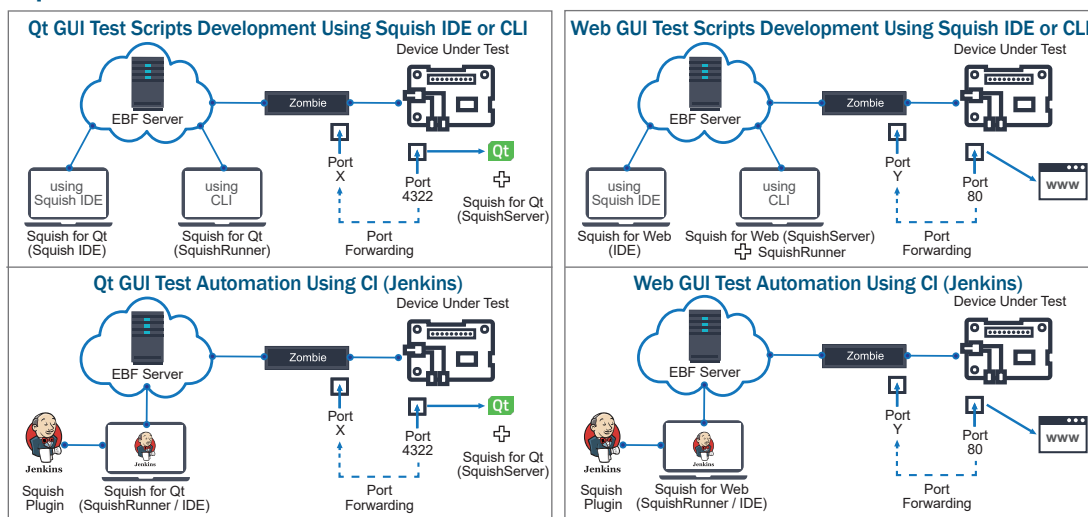
## Timesys Remote Access EBF – Remote Testing with Full Control Over Your Hardware

The Timesys EBF provides a standardized infrastructure to add and manage hardware across locations. The EBF complements Squish by extending it to your actual product hardware, providing seamless integration of automated testing on your hardware, no matter where it is located. The Squish-EBF solution enables remote testing on different boards in multiple locations.



In addition, when you use Squish with the EBF, you have the ability to remote deploy SD card images with Squish-aware runtime software, enabling you to select images you want to run.

## Squish-EBF Solution Use Cases



- Enable remote UI testing on your actual hardware
- Set up automated test processes and frameworks with global access
- Full control of the system by development and test teams
- Test UIs on different hardware including multiple physical locations
- Live video streaming for confirming proper test execution on a remote target board

In addition to automated Qt and Web GUI testing, the EBF can be used for embedded software development and debugging. Benefits of the Timesys EBF include:

- **Shortened product development schedule:** Reduce time-to-market by sharing software and working prototypes with test teams early
- **Resource leveraging:** Combined with continuous integration techniques, provides a high-efficiency continuous testing and smoke testing infrastructure for automated test labs, including stress and load tests
- **Cost efficiency:** Reduce the number of boards that must be built at every re-spin which directly saves money in the project budget
- **No hardware bottlenecks:** Save budget by allowing access to boards from any location via network
- **Remote team collaboration:** Provide all teams with access to the same resources globally for development, test, quality control, debugging
- **Productivity gains:** Deliver demos by sales and marketing, reproduce field problems by engineering
- **Easier inventory management:** Manage multiple products, product versions, and generations from a centralized dashboard, simplifying inventory management and providing timely access to hardware boards for sales, R&D, sustaining and support engineering
- **Strong security:** Ensure privacy and security because the EBF is private, behind your firewall, and completely in your team's control with powerful centralized administration features

The Timesys EBF is architected with Rest APIs, so any Test Automation framework can be plugged in easily.

Learn more about the Timesys EBF at [www.timesys.com/ebf](http://www.timesys.com/ebf).

For questions about the froglogic Squish-Timesys EBF solution, or to schedule a no obligation personalized demo, email us at [sales@timesys.com](mailto:sales@timesys.com) or call us at **1.866.392.4897** (toll-free) or **+1.412.232.3250**.



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Squish provides the ability to automate the functional regression tests and system tests of graphical user interface (GUIs) and human machine interfaces (HMIs). The Squish GUI testing tool, a 100% cross-platform tool, features:

- In-depth support for all major GUI technologies
- Full support for all desktop, mobile, web and embedded platforms
- Test script recording
- Powerful and reliable object identification and verifications
- No dependency on screenshots or visual appearance
- Powerful integrated development environment (IDE)
- A wide range of popular script languages for test scripting
- Full support for Behavior Driven Development (BDD)
- Full control via command line tools
- Integrations into Test Management and CI-Systems

**Squish Editions include:**

*Desktop GUI Test Automation*

- Squish for Qt
- Squish for Java
- Squish for Windows
- Squish for Mac
- Squish for Tk
- Squish for Web

*Mobile GUI Test Automation*

- Squish for Mobile iOS and Android
- Squish for Web
- Squish for Qt

*Embedded GUI and HMI Test Automation*

- Squish for Qt
- Squish for Java

Learn more about Squish at [www.froglogic.com/squish/](http://www.froglogic.com/squish/).

For questions about froglogic Squish, you can email [sales@froglogic.com](mailto:sales@froglogic.com) or call **+1 512 263 0633** (Sales USA, Canada & South America) or **+49 40 6077104-80** (Sales Rest of the World).



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