

# How Strong Is YOUR QA Heartbeat?



## Heartbeat Graph: Visualize Daily QA Activity

Organizations like yours are working diligently to keep pace with digitalization. As agile teams close the gap on continuous development and continuous testing, automated QA daily reporting is key. The Delivery Teams want to know where things stand every day, now QA Managers and Key Stakeholders can save valuable time with the power of QACube's Heartbeat Graph.

Just as a heartbeat is a solid indicator of the health of your project, the QACube Heartbeat provides an easy way to monitor daily QA progress, for example: to see the number of issues that were added, the number of failed test cases and the test cases that successfully passed. On a day where there is "no heartbeat", or a "weak heartbeat", this can be an early warning indicator of a lack of activity which can have a real impact on the entire project.

QACube is the first QA Platform that enables a complete

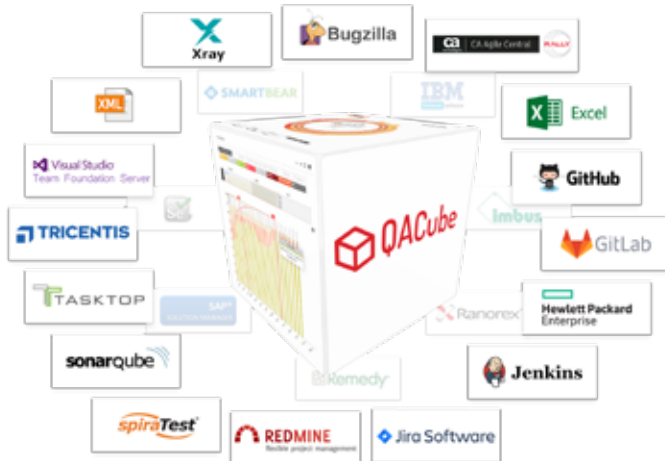


Graphic 1 - Visualization by Role

or 360-degree view of QA activities across testing tools, projects and geographies – fully automated and always available to the Key Stakeholders and up-to-date. Testing Teams can have a large monitor where they can view the Heartbeat at all times and leverage the leading visual analytics to see bottlenecks and make important resource decisions.

Below are some of the most popular ALM/software testing and development tools that are integrated with QACube and additional tools can easily be integrated.

The QA Heartbeat, one of the most powerful graphics of QACube, provides the pulse of YOUR QA. This is one of the reports that enables improvements in QA effectiveness and efficiency with smarter and more automated reporting to work collaboratively.



Graphic 2 - Integration

Execution frequency and its status-over-time. Choose the project you wish to overview in the Heartbeat, and observe the graphs change on the Heartbeat page.

You may notice that there are two main sections of the Heartbeat. These are the Overview Chart and the Heartbeat Graph sections. Both represent different data.

The chart below clearly displays the percentage of **Test Cases without any executions** (top bar), and **Failed Test Cases (most recent status)** (bottom bar). Both pieces of information are also presented with the colored bar, which changes color, as the number of Test Cases non-executed, decreases for the selected project.

- The color changes from dark red to dark green, as the Test Team continue to execute the Test Cases.
- At 100% of **Test Cases without execution**, the first bar will be red. The bar changes color slightly (through several shades of red, orange, all the way to the dark green) and shrinks to the left.
- The **Failed Test Cases Bar** is always red, and only shrinks to the left, as the number of failed Test Cases decreases.

## Overview Chart

Let's take a detailed look at the Heartbeat Graphic and what it means. Below you will find a complete overview of the

With these two bars you can quickly see the current Executions State of the selected project. The rest of the Heartbeat Page provides a more detailed view.

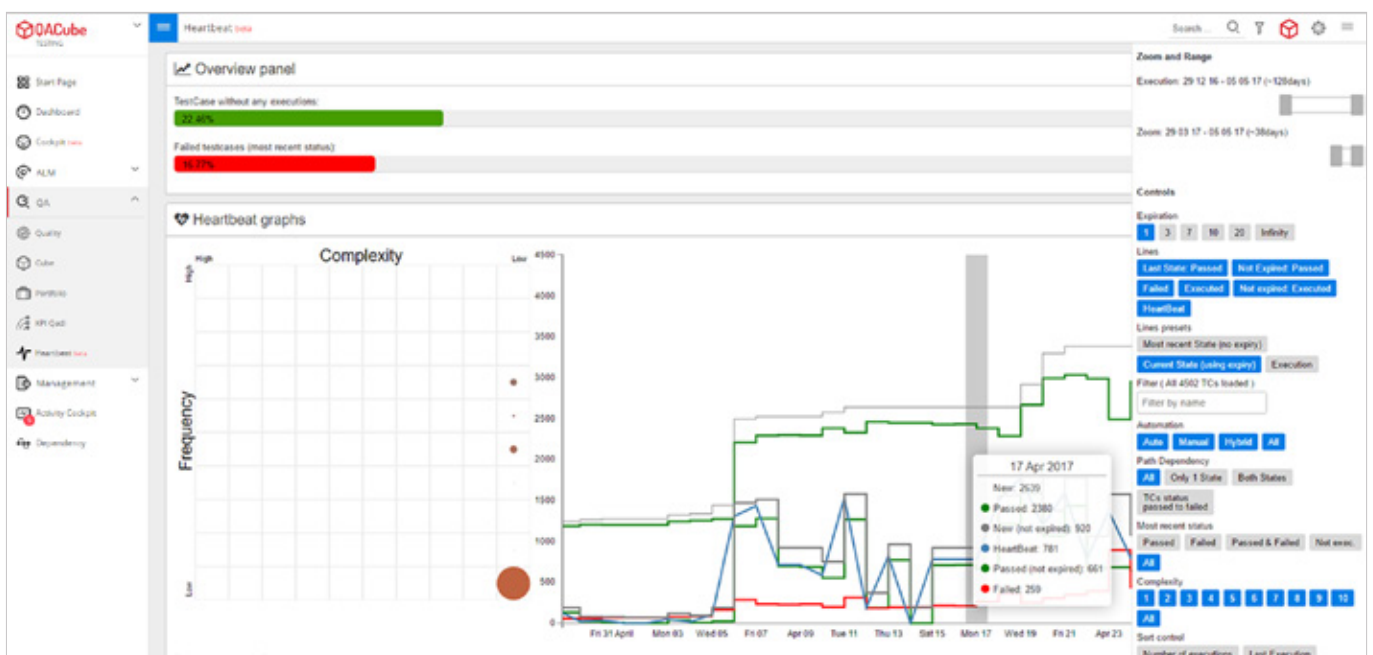


Figure 1 - Heartbeat Page

## Heartbeat Time Series

In this section, there is the Time Series Chart which, at any given point in time, displays (for execution) which percentage of the Test Cases of the selected project (or set of projects) are labelled as Passed/Failed/No Run. It reflects the LATEST status of a Test Case.



Figure 2 - Heartbeat Time Series

## Heartbeat Legend

- Heartbeat (blue line / circle) represents number of Test Cases which has been **executed on a specific day**, no matter of their status (passed or failed).
- Passed (green line / circle) represents the # of Test Cases which last status is **passed**.
- Passed (green line / circle) represents the # of Test Cases which are **passed but not expired**.
- Failed (red line / circle) represents the # of **failed** Test Cases
- New (gray line / circle) represents the # of **new** Test Cases
- New – not expired (gray line / circle) represents the # of **new** Test Cases that are **not expired**

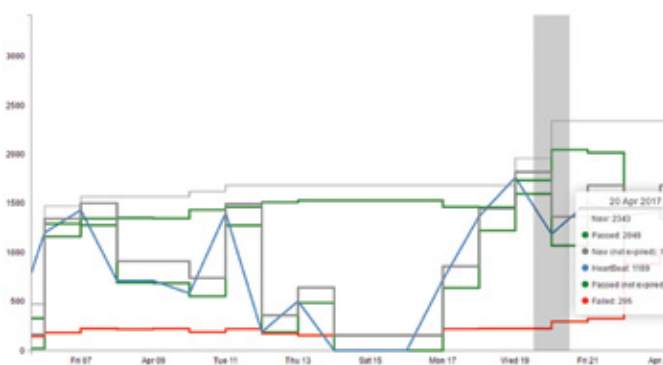


Figure 3 - Heartbeat Legend - all lines

## The Heartbeat Provides Answers Fast

Examples:

**Execution Time:** When was the TC last executed?

**Frequency:** How often has it been executed?

**Status Changes:** Has the status ever changed from 'passed' to 'failed'?

## Why Are These Metrics So Important?

- **Execution Time** - Based on this additional information, a Test Manager can see if there are Test Cases in the selected project that haven't been executed for a long time, or haven't been executed at all. This is especially helpful when information about (hot) fixes is available - so that management can decide which parts of the Test Plan have to be retested.
- **Frequency** - This is a very good selling point for automated testing. Especially in regression testing, this is essential to achieving a highly efficient portfolio.
- **Status Changes** - This is one of the most powerful pieces of information in the Heartbeat. If we know that certain Test Cases (that previously "passed") are suddenly labeled as "failed", we must retest other features that are linked (either a. based on our knowledge of the test/application environment, or b. based on a dependency structure). A state change e.g. from passed to failed is a reliable key indicator of a fix "gone bad".

## Heartbeat Graphs Viewing Options

Execution time and Frequency/Complexity are presented next to each other within the Heartbeat Graphs — Frequency being to the left, and the Execution time being set to the right. Below these two options is the list of all Test Cases of the selected project/s. You may set different numbers of Test Cases to be displayed at once, by choosing 10, 25, 50, 100, 500 or 1000. The list of Test Cases is currently used as the preview.

Request a Demo

Contact us

info@qacube.com

### QACube Headquarters

Vulkanstrasse 106  
8048 Zurich  
Switzerland

### QACube Serbia

Ušće Tower  
Bulevar Mihajla Pupina 6/21  
11070 Belgrade, Serbia

Futoški put 93b  
21000 Novi Sad, Serbia  
+381 21 544 041

