Software Testing and Quality Assurance
Extensive Experience Delivering Custom, Quality Solutions
Why Choose BRISA?

BRISA utilizes only experienced, qualified professionals and the best industry practices to bring perfection to the process.

Decades of research converted to methodologies, like PMBok and ISTQB, have enabled the formation of standards like TMMi. These have become the basis for the success of new projects. Our certifications demonstrate the use of these standards and ensure the efficiency in the process, which guarantees delivery of high quality artifacts.
About BRISA

Years of Experience Committed to Quality and Innovation

- Founded in 1988
- Offices in Brazil (Brasilia, São Paulo, Rio de Janeiro and Salvador), as well as the United States (Florida)
- Approximately 250 highly qualified full-time employees
- Providing services to customers in several Latin America and African countries, as well as the United States
- Focused on business solutions and information and communication technology services, through the development of strategic and technical projects
- Well-known for our role in pioneering projects of embedded software, Internet, e-Commerce, software testing, digital TV and e-Organization
- High rate of client retention - Over 90% of revenue comes from recurrent clients

Software Testing

We help you to avoid rebuilds for your software, offering a complete testing solution for your company. We have already executed more than 10 million test cases.

Software Development

BRISA has developed hundreds of applications and software in a variety of platforms, including embedded software, based on the industry’s best practices.

Technology Consulting

BRISA provides itself as a reference company for the information technology sector. We have spent over 25 years innovating and adding value for our clients.

Power Dialer Solution

We have created automated and customized calling and SMS campaigns for several businesses. We have ideal solutions for your dialing needs.
Some of Our Clients

Here are a variety of the clients we currently or have previously worked with, demonstrating BRISA’s dedication to quality assurance and success.

10+ Million Test Cases Executed
Success Cases in Software Testing

**BRISA** continues to demonstrate the use of best practices and industry standards to ensure the efficiency of the processes that guarantee the delivery of software quality assurance.

**BRISA** has been successfully responsible for 100% of LGE mobile software testing in Latin America, including laboratory and field tests aimed at carrier homologation and end user satisfaction. This is what promoted **BRISA** as a benchmark for all other LGE labs around the world.

We successfully performed software testing for different equipment inside and outside of **BRISA**’s laboratories, including functional and non-functional tests.

**BRISA** successfully validated the retail mobile banking solution for several platforms, including iOS, Android and Windows phone and website reflexes.

We successfully performed hardware and software tests for Positivo, the largest Brazilian computer manufacturer, in order to ensure end user satisfaction.
Our Application of Best Practices

**BRISA** is determined to stay ahead of industry/market trends and to deliver the highest quality of software testing available.

Most of our 150+ specialists in software testing are ISTQB certified by the International Software Testing Qualification Board, showing our knowledge and use of best practices for the implementation and execution of software testing.

**BRISA** is the first organization in the world to achieve the highest level (5) of the MPT.Br model (Brazilian version of TMMi). We continue to seek excellence in our processes and controls, based on the best market practices.

Our software engineers demonstrate solid knowledge and experience in software testing and in telecommunications, with specific experience with mobile devices. **BRISA** is a unique organization for software quality assurance.

The best practices, services, processes, infrastructure and methodologies used inside our test laboratories are what make **BRISA** a worldwide reference for other companies, strengthening the alliance between **BRISA** and its clients.

**Industry Standards:**
- TMap
  - Test Management Approach
    - Management Methodologies & Test Techniques
- TMMi
  - Test Maturity Model Integration
    - Software Testing Maturity Model
- MPT
  - Process Improvement for Testing
    - Software Testing Maturity Model

**Methodologies:**
- PMI
- Scrum
- ISTQB
- ITIL
- COBIT

Completed Tests in **20** Countries
Quality Assurance and Development Process

For every development activity in the software life cycle project, there is a corresponding testing activity.

**Waterfall Model**
Test activities are performed when the software is ready to be published. Test cases are modeled to validate the software against the requirements.

**V Model**
Test activities are conducted and reported in accordance to the development phase. The team provides as much information as possible to correct the defect.

**Spiral Model**
The test cases are designed to minimize the impacts caused by the changes and interaction between new modules of the software.

**Agile Model**
Test activities are performed in order to follow the agile process. The test team works closely with developers and defects are communicated as soon as they are found.

**Requirements**
**Test Activities:** Static, Doc Review, Requirements Validation, Acceptance Criteria, Test Strategy, Etc.

**Architecture**
**Test Activities:** Class Validation, Data Base Layers, Integration Strategy, Requirements Compliance, Etc.

**Code**
**Test Activities:** Unit, Component Integration, Dynamic Tests, Code Standardization, Security, Etc.

**Tests**
**Test Activities:** Functional, Accessibility, Usability, Exploratory, Load, Performance, Security, Etc.

**Acceptance**
**Test Activities:** Acceptance Validation with the Client, Quality Criteria Validation, Field Validation, Etc.

**Maintenance**
**Test Activities:** Regression, Confirmation, Installation, New Environment, New Platform, Etc.
Testing Deliverables

This represents what deliverables and artifacts you can expect from BRISA during software quality testing.

**Planning and Test Strategy**
Start and Finish Date, Test Activities, Resources, Environment, Tools, Etc.

**Test Cases Executed and Documented**
Test Case Description, Expected Results, Author, Date and Time, Status, Comments, Scripts, Etc.

**Incident/Defect Report**
Defect Description, Expected Result, Priority, Precondition, Author, Date and Time, Etc.

**Evidence of Defects**
Pictures, Screen Shots, Videos, Logs, All Necessary Information for Its Reproduction

**Project Statistics**
Requirements and User Case Coverage, Defects Density, Defects Type, Etc.

**Daily Reports**
Summary of the Project Including Defects Found, Test Cases Status, Defect Evidences, Etc.
Testing Tools

BRISA demonstrates expertise and understanding of all of the following testing tools.
Testing Services Portfolio

BRISA has proven expertise in all platforms within software testing for national and international companies, from both public and private sectors.

**Functional Testing**

**Do the requirements projected for your software work?**

Through functional testing, it is possible to reduce the risks of problems in the operating environment, while contributing to the quality of the software if the defects found are corrected. The functional tests are needed in order to validate contractual requirements, legal requirements or decrease the incidence of defects in production. When users find failures in software, the costs to correct them are much higher compared to when they are found during the development cycles.

**Exploratory Testing**

**Does your software have no documentation?**

Through exploratory testing, we can map the software and set up a testing strategy based on risk or features that will be most used by users. Generally, exploratory tests are performed when there is no documentation or when the deadline for testing is short. However, when the testing activities are documented, defects can be recorded and consequently the system quality level increases if these defects are corrected.

**Performance Testing**

**Does your software fit the predicted number of users?**

By executing performance testing, it is possible to learn the web system response time and other information, such as latency and the time needed to establish a connection between a user and the server. It’s important to remember that the number of users or requests will increase over time. Many organizations develop their software and only discover it does not support the expected number of users after the system is already in production. Why not perform a test beforehand and make the necessary changes then?

**Load Testing**

**What if a large amount of users access your system all at once?**

By executing load testing, it is possible to know the web response time when many users are accessing the system simultaneously. Generally, these access peaks occur at specific times, such as employee’s entry time or even during the release of a system or web page. During the various requests, the server may not hold up and slow down or even crash. It’s important to know the limit of your system.

**Stress Testing**

**What if the accesses to the software last a long period of time?**

By executing stress testing, you can learn how the software will behave to random requests over a period of time. Some software, after a few hours of use, start to show instability through slowing down or crashing. It can happen if the system is not ready to close sessions properly, thus overloading the servers. This problem is aggravated when the software is then accessed by a large number of users.
Security Testing

Is your data protected from attacks and invasions?
Through security testing, it is possible to assess the vulnerability of your software through test activities in order to validate the denial of data access, intrusion attempts, data integrity and illegal access. It also helps to test whether the protection mechanisms implemented in the software are working. Violation and data theft are main causes of damage to organizations when the subject is software.

Usability Testing

Is your software easily understood by the users, intuitive and easy to operate?
Through usability testing, you can tell if your software is easy to operate by users. Complex flows and little intuitive software hamper the usage of systems, which then reduces employee productivity and hinders customers receiving information. For e-commerce platforms, as an example, shopping can be set aside by the lack of clarity of the software functions.

Accessibility Testing

Can users with special vision needs use your software?
Through accessibility testing, you can know whether disabled users are able to use your software. Usually inappropriate colors or font size undermine the viewing of information from your software for users with color blindness, short-sightedness, long-sightedness, cataracts, glaucoma and retinopathy. If your audience has users with any of the above limitations, accessibility testing will help you understand whether adjustments are needed within your system.

Automated Testing

Does your development team use an iterative/incremental model?
Through automated testing, it is possible to design automated test scripts to evaluate if side effects or failures were introduced into the software due to maintenance, upgrades or enhancements of modules or components. Automated tests are recommended for systems that use iterative/Incremental models. By running the scripts, test times in later cycles are shorter, thereby reducing costs for the organization.

Customized Testing

Do you need special test activities like portability testing, maintenance testing, etc.?
There are other test activities that can be of great value for your software. Usually they are perfect to assess your scenarios and identify tools, techniques and processes necessary in order to validate your software. During the customized tests, the necessary and correct activities for the execution are applied, optimizing cost and time for your company. Some examples of customized testing include portability testing, compatibility testing, installation testing, etc.
Contact Us

To learn more on how BRISA’s software testing and other services can help you, feel free to email or call one of our primary business representatives.

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