

Test Architecture Documentation

The foundation for the successful delivery of a test automation project

A Clear Case for a Test Architecture Document

When you're looking at engaging Keysight's test automation services, your project's success depends on having a strong alignment to your test strategy; a test framework designed to maximize enterprise ROI by anticipating future automation targets; the clear and unambiguous definition of workflows and the project processes tailored to fulfil success.

The test architecture document is a single source of truth that everyone involved in the project can refer to. A detailed comprehensive project playbook which articulates the purpose of the project; what the test outcomes will be; how they are to be delivered; and what achieving these outcomes contributes to the business.

Without this documentation, it becomes harder to keep a project on track and to demonstrate success. Not only does this keep everyone aligned, but it can also prevent delays and speed up the progress of your project.



Gearing up for a successful project with Keysight's dedicated expertise

During this engagement, you'll work with one of our Keysight Eggplant Certified Implementation Architects to build your project test architecture. This will lay the foundation for the project but also for all future projects thus ensures a successful project outcome and a sustainable legacy.

Your Test Architecture Document removes project risks allowing you to decrease contingencies and provides assurance and certainty for your stakeholders.

The four pillars of automation success

Test architecture documentation captures years of experience in automation projects and is driven by the four pillars of automation.

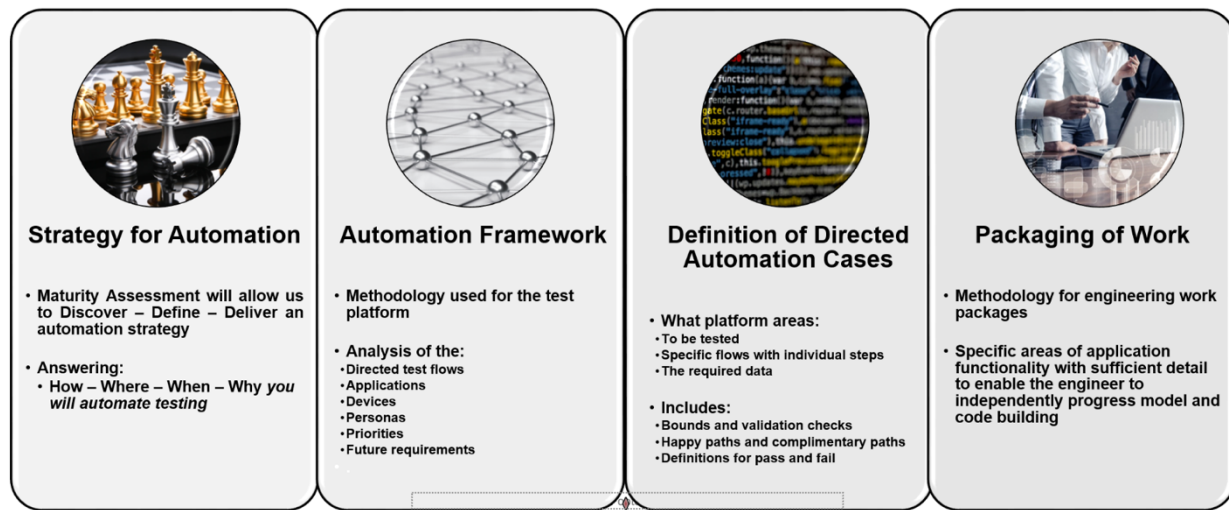


Figure 1. Your Keysight Eggplant Certified Implementation Architect will guide your test architect, or test lead, through these pillars.

Automation strategy

The test strategy clearly articulates how, where, when and why your business wants to automate testing. It offers visibility of how ROI is to be delivered to, and measured by, the business stakeholders.

Automation framework

The automation framework describes how you will deploy and utilize your automation platform. This requires analysis of the directed test flows, applications, devices, personas, priorities and future requirements.

Definition of directed automation cases

This documents which platform areas are to be tested, detailing specific workflows down to individual steps and the data required to navigate these steps. Bounds and validation checks will be specified along with the definitions for pass or fail.

Packaging of work

This details the methodology for how the project will commission engineers to complete work packages and how these packages are to be sequenced to deliver the structured ROI agreed by the stakeholders.

Supporting project success: your test architecture document

Your test architecture document includes:

Automation strategy: A description of your automation strategy.

Automation framework: The selected framework and its driving mechanism; the modelling strategy; the test environment that the framework will operate within; the physical infrastructure of the application under test, the systems under test and the test development environment.

Directed test cases: The detailed workflow definitions including test data and entry/exit criteria.

Work packaging: Work management and proposed phasing.

Project organization: Project team structure including third parties; respective roles and responsibilities; project communications; project risk management; required equipment, licenses and onboarding processes.

Project completion: Details the deployment process including commissioning; maintenance activities; setting up a center of excellence; offboarding processes.

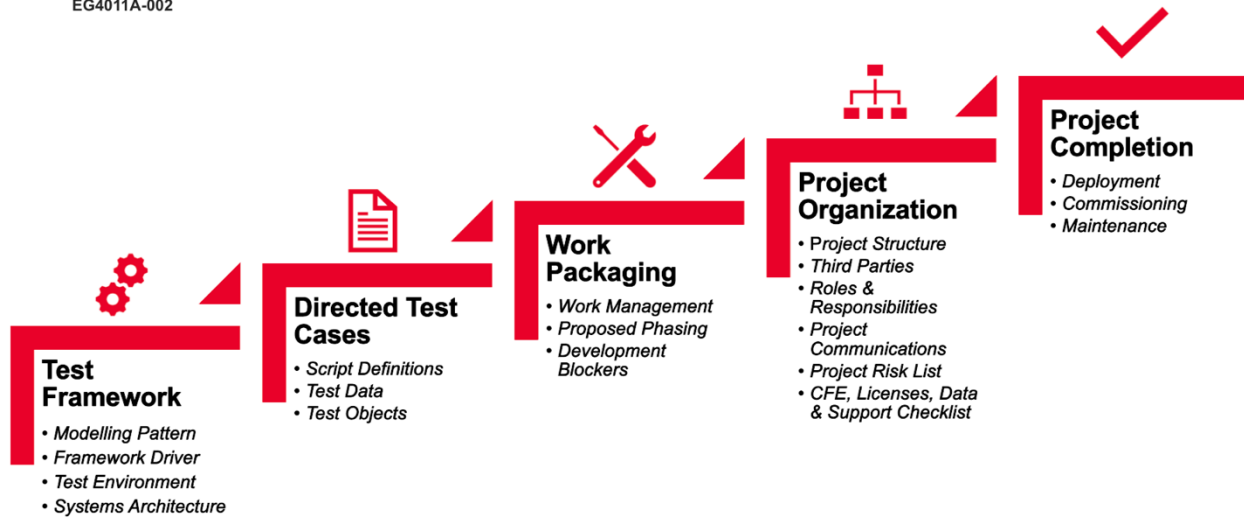


Figure 2. Your test architecture document comprises five components to get you set up for success

Laying the foundation for a successful software test automation project

Description	Details
Test architecture documentation	- Automation framework - Directed test cases - Work packaging - Project organization - Project completion - SPN: EG4011A-002

Test Architecture Documentation details:

- Automation framework
- Directed test cases
- Work packaging
- Project organization
- Project completion
- Billed upfront after receipt of purchase order
- Up to 40hrs of consulting services towards test architecture documentation
- If required, all travel and living costs are extra
- Service provided by Keysight Eggplant implementation architect

Contact one of our team members today for further information.



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.

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