

Global Manufacturer Automates ITAR Documentation Process Using Keysight Eggplant Test

Overview

Our customer empowers innovators to explore, design, and bring world-changing technologies to life. With products and services that enable users and clients to push the boundaries of engineering by quickly solving electronic design and test challenges to create the best product experiences.

With over ten thousand employees across the globe and over \$5bn in gross revenue on the past financial year, our customer has extensive experience in the manufacturing sector. Every improvement helps our customer remain an industry reference for product excellence for the customers it caters to, such as Telecommunications, Automotive and Aerospace & Defense.



Challenges

Software testing can have a steep learning curve, so engaging a new intern to set up and run Eggplant felt like a challenge. However, when a graduate intern was given this task as her first software testing project, she described using Eggplant as, “a really positive experience”.

“I reached out to the subject matter expert that had prior experience using Keysight Eggplant Test, right away for one-on-one lessons. After that, any time I had a question I could go online and look for the right video or the online documentation website.”

Graduate Intern, Global Manufacturer

Time available to meet the audit deadline

With an audit deadline fast approaching, the Graduate Intern needed to ensure that 10,000 aerospace and defense documents complied with International Traffic in Arms Regulations (ITAR). This involved watermarking images in each document. Once the changes were made, it was also important to verify the files were now compliant.

Doing this work manually would have taken a team of three, working full time, around six months to complete. In addition, with this being an extremely mundane task, the potential for human error creeping in would have been substantial. From a quality assurance point of view, this makes Eggplant an obvious solution.

Using Eggplant, a graduate with three years of coding experience in C# – a different language to the SenseTalk coding language used in Eggplant – was able to write and run the test automation scripts and complete the work within six weeks.

“My script did two things. One, I had it watermarking everything, and then two, I had it keeping an audit log to test and make sure everything was working correctly. We used Eggplant functions of automating the process and testing it. We were testing about 2000 files a week, and we completed the work in about a month and a half.”

Graduate Intern, Global Manufacturer

The Eggplant Experience

Scaling testing operations

After an initial test project, it makes sense for other teams to benefit from the testing efficiency and testing accuracy of Eggplant. This can happen as part of a plan to scale testing operations, but it can also happen organically, as other parts of the business start to hear about Eggplant's successful implementation and want to benefit from this technology adoption.

“At the start, it was just me. then we got one more person to help run everything once all the coding was done. A lot of people around me all had the same audit deadline - we all work in ITAR - so a colleague on a different team said to me, ‘I noticed that you’re running Eggplant and it looks very easy to use so I’m wondering if you could help me get it set up?’ So I got his team set up and he started coding in Eggplant.”

Graduate Intern, Global Manufacturer

Essentially, once one person within the business has learned to use Eggplant, the positive user experience means it's relatively easy for them to teach other people to use it. Using Eggplant more widely is a sensible, data-driven decision, given the clear time and cost savings.

Key Outcomes

With the help of Eggplant's powerful software and expertise, a small team was able to cut months of labor from a watermarking and compliance project. Not only did the digital transformation of this process save the original team a sizable amount in time and costs, but the team member implementing Eggplant shared their knowledge with another team, allowing them to benefit from additional time and cost savings. With the help of Eggplant, their outcomes included:

- Watermarking images in 10,000 documents at least 4x faster,
- Ensuring compliance with ITAR ahead of their audit deadline,
- Removing the potential for human error by using automated scripts,
- Improving testing efficiency and testing accuracy,
- Implementing time and cost savings for a neighboring team,
- Enabling scaling of testing and automation operations.



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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