



## Case Study

# Manual / Automation Testing

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### About the client

Company is a stock photography agency headquartered in New York City, New York and United States. It maintains a library of millions of royalty-free stock photos, vector graphics, and illustrations, and sizeable video clips for license.

### Industry

Photography

### Business needs

Drive growth by rapidly adding more capabilities while all the time ensuring that the gate keepers do not let anything untoward pass by.

### Solution

Over a period of time, helped them arrive at combination of tools that addressed the company's ALM needs

### Business Needs

Back in 2010, Company was growing rapidly but it did not have any foolproof regression suite. As new features were added, they were tested in an ad hoc fashion. There was absence of end-to-end Application Life Cycle Management practice. Another challenge was that the company was focused on open source technology stack. This resulted in bits and pieces of tools that really did not integrate well together. Google sheets / Excel sheets were used for test cases, Bugzilla was used for bug tracking and Rally for User stories.

On the positive side, Company had an eight member manual QA team led by a 20 years experienced QA Director.

### Solution

- Understood the business side of the application thoroughly by holding session with the onshore QA team remotely
- Built a Smoke Suite very quickly that ran each night
- Built a more complete automated regression suite over period of time
- TAGS, the zero-coding framework, was mature at that point of time and was used as a framework to create automated test cases
- Helped build a more robust QA practice
- Over a period of time, helped them arrive at combination of tools that addressed the company's ALM needs

### Process

- Initially built an extended team of six QA Engineers that were adept in both manual and automation testing. The team members focused on some of the major areas of the Company's web application. They interacted with their counterparts and gained complete business knowledge of each area.
- An initial set of 1000 test cases were identified for the regression suite.
- They then had the test cases captured in Excel and used XStudio as an automated Test Case management and execution tool.
- A separate customized Reporting Portal was used to provide insight to the stakeholders on the current Automation Run status vs historical Automation run,
- As company moved to agile methodology, TFT had its engineers stagger their times so that the QA team can have 3-4 hours overlap with developers.
- TFT team also joined onshore Sprint Planning, Retrospective and Backlog meeting through Google Hangouts and also communicated with tools like Slack.

## Pros

Over a period of time, Company's production site improved tremendously—

- Quickly got the automation suite off the ground (within a month of taking over). This was a major step forward as it brought some of the nay-sayers on board the outsourcing bandwagon.
- The suite was run in Company's night time and the failure investigation and reporting happened before the Company's team came back the next day. This led to drastic change in working methodology of the onshore QA team. They now had access to information as to how good the last release was and what all areas the last release adversely impacted.
- The regression was applied after each release / fixes leading to quickly finding the failures.
- As company moved to Ruby as the underlying technology, TAGS test cases were translated to Ruby.
- Test Management (including tool, test design and execution) moved to TestRail

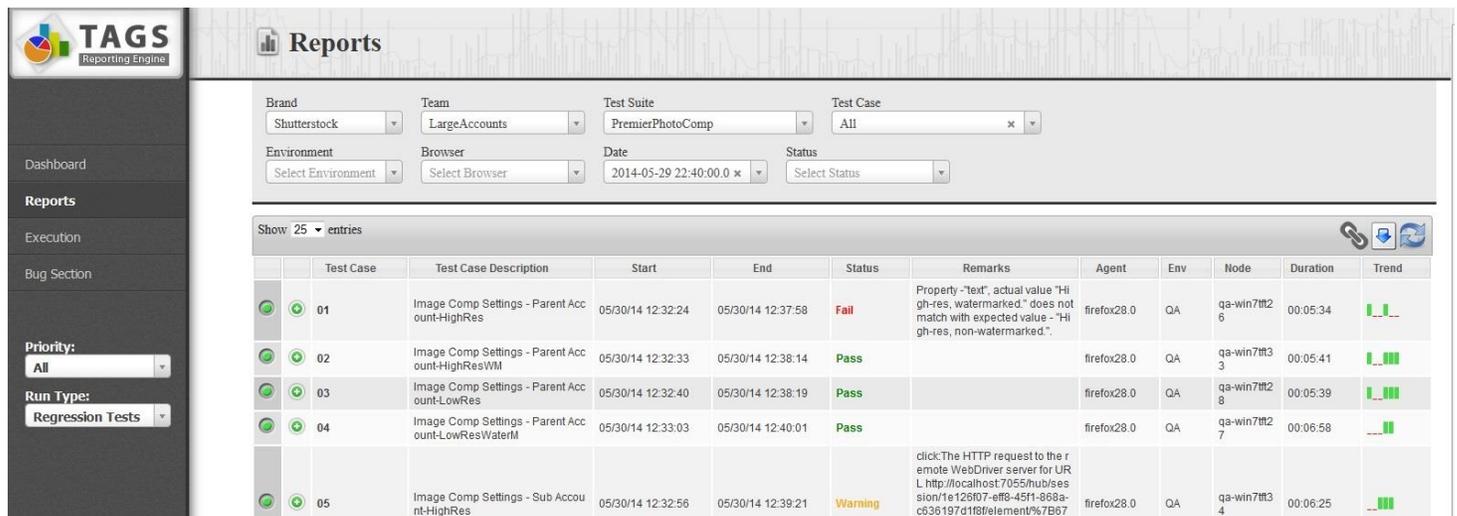
## Cons

- Needed one and sometime two dedicated resources to continuously do failure investigation and take suitable action.
- TAGS, the framework used came a full circle as once the company went agile. The QA team moved from "no-programming framework" to a heavily "code based framework" for writing automated test cases.

## Current Status

- Today the Company has grown four times since 2010.
- There are 12 business areas that TFT looks after and has one dedicated resource championing each area.
- We have 3 shadow resources who work in multiple areas. They are like "Jack of all trades". However, the important aspect is that they allow TFT to mitigate risks against attrition as well as ensure zero decrease in productivity even when one of the main resource is away.
- Says the CTO of the company: "I brought in Vijay's company for their QA & Testing expertise. I am glad that the investment paid off handsomely".

Screen shot from the TAGS portal



The screenshot displays the TAGS Reporting Engine interface. The top navigation bar includes 'Dashboard', 'Reports', 'Execution', and 'Bug Section'. The 'Reports' section is active, showing a table of test results. The table has columns for Test Case, Test Case Description, Start, End, Status, Remarks, Agent, Env, Node, Duration, and Trend. The test results are as follows:

Test Case	Test Case Description	Start	End	Status	Remarks	Agent	Env	Node	Duration	Trend
01	Image Comp Settings - Parent Account-HighRes	05/30/14 12:32:24	05/30/14 12:37:58	Fail	Property -"text", actual value "High-res, watermarked." does not match with expected value - "High-res, non-watermarked."	firefox28.0	QA	qa-win7#26	00:05:34	Fail
02	Image Comp Settings - Parent Account-HighResWM	05/30/14 12:32:33	05/30/14 12:38:14	Pass		firefox28.0	QA	qa-win7#33	00:05:41	Pass
03	Image Comp Settings - Parent Account-LowRes	05/30/14 12:32:40	05/30/14 12:38:19	Pass		firefox28.0	QA	qa-win7#28	00:05:39	Pass
04	Image Comp Settings - Parent Account-LowResWaterM	05/30/14 12:33:03	05/30/14 12:40:01	Pass		firefox28.0	QA	qa-win7#27	00:06:58	Pass
05	Image Comp Settings - Sub Account-HighRes	05/30/14 12:32:56	05/30/14 12:39:21	Warning	click:The HTTP request to the remote WebDriver server for URL http://localhost:7055/hub/session/1e126f07-ef9-45f1-868a-c536197d1f8/element%7B67	firefox28.0	QA	qa-win7#34	00:06:25	Warning

## About Think Future Technologies

TFT is leading provider of end-to-end IT services and Technology Management. With many pioneering and innovative firsts to its credit TFT has always led the way in powering the exceptional enterprises with continuum of Technology and its implementation.

We are provider of Best-in-class Enterprise Collaboration (ECP), Enterprise Application Services (EAS), QA & Testing and Support services. TFT has deep industry expertise, business strategy and program governance experience along with tools and methodologies for accelerated deployment of Microsoft solutions. TFT's Intellectual property frameworks illustrates unique invention of process combined with deep domain expertise in multiple industry verticals.

For more information, visit <http://www.tftus.com/>

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