CASE STUDY

Test Automation for Industrial Network Management Software

Client

The customer is a world leader in industrial networking solutions, with operations around the globe.

Challenge

The customer has network management software which helps in configuring and supervising manageable devices, including their switches, routers, firewalls and wireless devices, as well as any third-party SNMP-enabled products. The challenge faced by them was to perform repetitive manual verification of the functionality on different operating system and on various variants of the software.
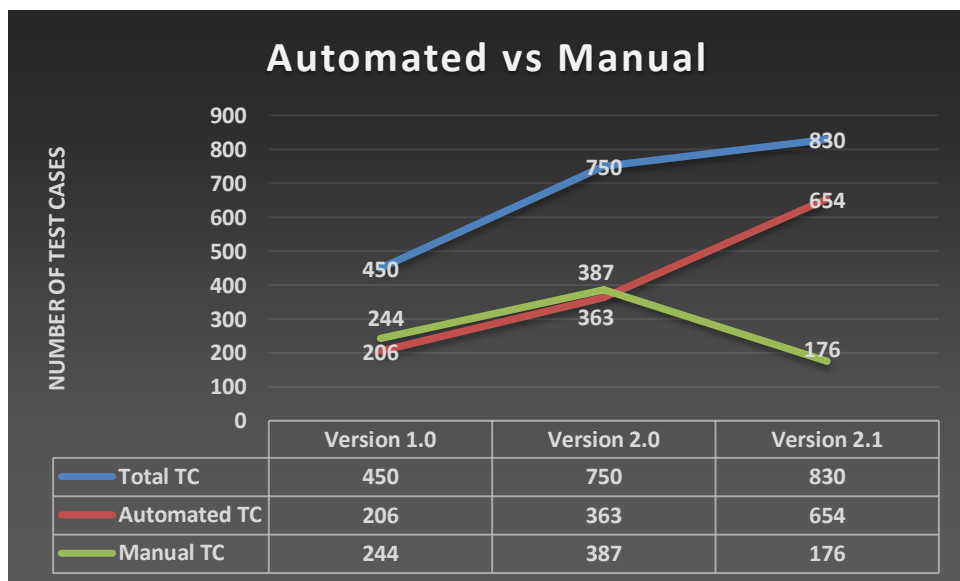
Solution

Veryx Technologies had the team which had good knowledge of customer's industrial network management software. The team quickly gained the knowledge on third party software QF-test which was used for test automation. The solution included the following:

✓ Automation implemented using Jython (Java Python) scripts for NMS test plan

✓ Test scripts validates all the UI components of the NMS including buttons, check boxes and dropdown menu

✓ Automated the various functionality verification of the NMS including topology discovery, alarms detection, device configuration etc.

Benefits

- ✓ The number of manual test cases decreased from 54% to 21% even though the total number of cases increased due to new features introduced.
- ✓ 64% increase in productivity, 39% decrease in time taken to execute a test case.
- ✓ Reduction in oversight errors.
- ✓ Utilization of the test setups overnight.

Automated vs Manual

	Version 1.0	Version 2.0	Version 2.1
Total TC	450	750	830
Automated TC	206	363	654
Manual TC	244	387	176

Technology

- ✓ OS: Windows XP, Windows 7 and, Windows 8

- ✓ Scripting Languages: Jython and Python.

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