



## Helping remote users connect wirelessly

### Industry:

Enterprise

### The Client:

Our client is the world's largest chipmaker and is also a leading manufacturer of computer, networking and communications protocol.

It is a world leader in silicon innovation and develops new technologies and products.

### Business Objective:

Our Client's Wireless LAN solution connects wireless clients (laptops, desktops) with wireless router for an 801.11 A/B/G kind of wireless network. The software application configures the wireless network card for small & enterprise level wireless networks. We were mainly involved in complete testing cycle right from studying the scope of the release to approval of release candidate. We also setup a hardware and software lab for different authenticating server.

### Solution:

We setup a hardware lab for different platforms, including setup of access points (Cisco, Netgear, Linksys). Authentication server setup included setting up different authentication and encryption methods like EAP-FAST, MD5, PEAP using Cisco ACS Server Microsoft IAS Server. We also authenticated methods for 802.1x. We performed many automated tests including Sanity Testing, Functional Testing, Automating Regression test suites (execution and maintenance) and API testing.

### Challenge:

This application was expected to run on a large number of hardware platforms across small and enterprise level wireless networks. Also a number of new features were added to the applications which were to be tested.

The frequency of new feature addition was large through short software build cycles and functionality validation was to be done on a large Test Platform Matrix (TPM), hence testing process was to be accelerated to meet shorter turnaround timeframes. We proposed an Automated Software Testing approach in a housed hardware setup to meet the above requirements

### Technology:

Automation using

- Silk Test
- PERL
- VB Scripts

Configuration of wireless Networks for EAP-FAST, MD5, PEAP, LEAP, TLS, TTLS, CKIP, TKIP using

- CISCO ACS
- Microsoft IAS

### Benefits:

- Our Automated Testing approach ensured that the Wireless LAN application could be tested for all the new features added on a large TPM in record time
- Facilitated a timely and successful product release for the Client.

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# Case Study

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