CASE STUDY

Offshore development center for a leading Industrial Ethernet solution provider

This case study showcases how Veryx Technologies enabled a global industrial ethernet solution provider to meet their targets by establishing an offshore development center.

Client

The customer is a leading innovative solution provider in industrial automation and networking domain. Their product portfolio includes L2 /L3 switches and routers, industrial security and WLAN systems that are used in factory automation, process control, transportation and smart grids.

Challenges

The client had embedded protocol stack development requirements that need highly skilled engineering resources, which are difficult to find.

The main challenges the client was facing were:

- Difficulty in finding more in-house developers to match the rate of his expansion.
- Maintaining quality standards.
- Long Time-to-Market.

Solution

The customer approached Veryx Technologies, who was already their test partner for their product lines to build an offshore development center with primary focus on networking protocols.

Veryx Technologies readily took up the challenge and was determined to provide good quality and increasing value for their esteemed customer. The key highlights of the strategy were:

- Formation of team of engineers specialized in embedded protocol stack

- Streamline the development process

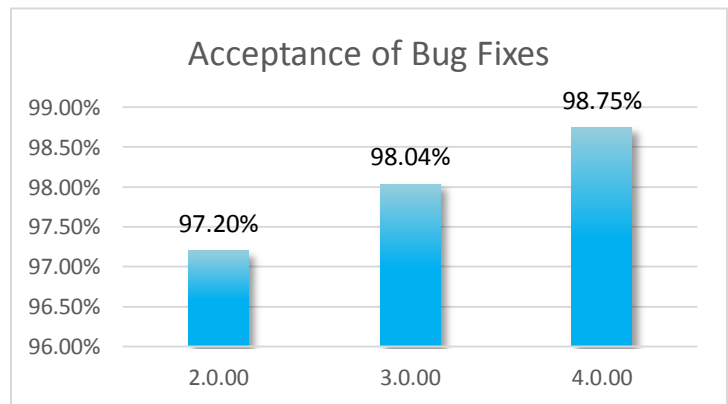- Evolve as strategic partner, managing end to end deliveries.

The onsite engagement initiative kick started the relationship. Within three months, the team, with specialized skills in embedded protocol stacks development, geared up technically and prepared themselves in all ways to meet the upcoming challenges. Being a part of a company that emphasizes on process, the team carved out a process for the offshore team to align themselves and collaborate effectively with the customer.

The team started off with basic features and transitioned to complex features displaying excellent quality at every stage.

Veryx Technologies also took care to establish well equipped and dedicated test labs for performing functional, load, stress and regression testing. This facilitated the offshore team to resolve issues with greater efficiency and in less time and resulted as a cost-effective solution for the customer.

Technology

- OS: RTOS (VxWorks)
- Languages : C
- Features:
  - o Switching – ARP, VLAN, MRP, DHCP Snooping, Port Security, RSTP, etc.
  - o Routing – Static Routing, RIP, OSPF, etc.
  - o Embedded – Firmware, SFP, CLI, etc.

Acceptance of Bug Fixes

Version	Acceptance
2.0.00	97.20%
3.0.00	98.04%
4.0.00	98.75%

Benefits

The customer was able to implement, release and deploy innovative solutions at the right time with excellent quality in the industrial ethernet domain by benefiting from the following factors:

1. Excellent code quality owing to code review process, unit test tools etc. Defect density less than 0.5 defects/KLOC

2. Increased the acceptance rate of bug fixes from 97% to 99% by doing RCAs and incorporating the findings into the process.

3. Higher competitiveness in the market with reduced engineering costs.

4. Faster time-to-market as the primary focus of onsite team was new technologies and products while the offshore team took care of subsequent releases.

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