



Mobile Software Testing

Task Title	Mobile based software product security testing
Industry Vertical	Software development IT firm catering to irrigation and power generation sector
Industry Details	<ul style="list-style-type: none">• Firm manufactures mobile based software• Products are meant for irrigation and water management sectors as well as power generation plants
Location	Pune (India)
Time to solution	2 months

Business Situation

The software development firm is based at Pune, India and primarily creates mobile based software. The software is used by banks to provide Mobile banking solutions. They approached SecMyIT for the purpose of performing mobile application security testing as well as the server software which connected to all mobile devices.

SecMyIT's Solution

- SecMyIT started work via a kickoff meeting with stakeholders and studied server software architecture as well as its operations using mobile devices.



- A list of possible security attack vectors was created. Separate testing list of mobile software was created. Mobile software vectors were simulated on a windows machine.
- Intrusive tests were performed on server as well as on the mobile device end to capture logs. Logs were processed to find out additional hacking points.
- A separate Android operating system module was created to measure mobile logs and was corelated with the server logs.
- Subsequent serious tests were performed to simulate all mobile scenarios typically found at irigiation plant as well as power generation plants.
- Technical solution engineering was performed and provided as a consultancy service to the customer.
- Additional round of re-testing was performed to ensure all the vulnerabilities were fixed.
- Finally a detailed audit and test report with problems found and their solutions suggested was presented in front of the customer's management. IT architecture changes were suggested in the report too, with action dates and plans.

Benefits

- Customer's products were enhanced due to the value addition of IT security.
- Customer could acquire multiple orders by emphasizing the cyber security enablement of their products and services.
- Customer was imparted with cyber security knowledge and could use it in their next version of the same product, as well as upcoming mobile products.



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