



ENTERSOFT

# Case Study

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FINANCIAL SERVICES

Web Application Security Testing



## CLIENT

IOOF Holdings Limited  
Melbourne, Australia

## ABOUT

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IOOF Holdings Limited is an Australian financial services company which offers a range of products and services including financial advice, superannuation, investment management and trustee services.

It was founded in 1846 as the Victorian branch of an international friendly society, and has its origins in the provision of sickness and funeral benefits prior to the widespread availability of government-funded welfare services.

# CHALLENGES

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- Applications had been built on variety of stacks and are not limited to one programming language; existing tools cannot provide comprehensive security assessment. Client had more than 20 web applications to be tested.
- Client had a home grown, complex, enterprise level application exclusively designed for financial needs.
- Client wanted to make sure they are compliant with security practices.
- Client wanted application security testing to be performed at their office premises where the test server is hosted.
- Client needed help in validating false positives, fixing security bugs and understanding the reports.
- Client was facing serious time constraints to identify, fix and retest the application.
- Client needed a validation certificate which they could present to their customers as third party validation.



# SOLUTION

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Certified security experts deployed



Functional mapping and core competencies identified



Threat models created



Critical bugs identified and fixed simultaneously



Secure app delivered in a week



OSCP, CEH and CISSP certified security experts landed at the customer location and performed the following tasks before starting the penetration testing:

- Functional mapping of the entire application with every detail about the URLs, parameters that are passed.
- Business logic and core competencies of the application were identified
- Key technical point of contacts for the security assessment were identified.
- Additionally special attention was given to areas which involved financial transactions, vendor management and third party accesses.

Threat models were created based on the application mapping.

Automated scans (including automated browsing and spidering of the application) were performed using various open-source scanners and an in-house developed scanner, EnProbe.

Manual penetration testing was performed by certified security experts. During the first cycle of the engagement, vulnerabilities were identified in the Client's application and were quickly exploited to show true impact. Entersoft's team supported the technical point of contacts immediately to fix the identified bugs to make sure there is a least turn around time.

After client's team fixed the bugs, a new security expert (other than the experts involved in first round) has retested the application both manually and using automated tools to make sure there are no security loopholes in the application.

# DELIVERABLES

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Executive Presentations  
+  
Technical Reports



Bug tracker



Bug fixing  
assistance



Compliance  
Certificate



Timely deployment

# APPLICATION SECURITY OFFERING

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Entersoft's Advanced Web Application Penetration testing helped the customer achieve end to end security assessment of web application to confidently deploy it in a secured government location. Entersoft mimicked the attack patterns used by hackers and tested the web app in a comprehensive manner, especially the core competencies of the application- vendor management & financial transactions. Our white hat hackers not only identified the vulnerabilities but also sat with customer's development team to fix the identified security bugs.

# ENGAGEMENT HIGHLIGHTS

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No False Positives



Knowledge Base Access



Immediate Bug Fixing  
Assistance



## TEAM CERTIFICATIONS

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At IOOF we used Entersoft's technical security and ethical hacking services extensively over the last 18 months. We found that Entersoft's team surpasses other web application vulnerability assessment tools and penetration testing companies, both in terms of its ability to find vulnerabilities and reducing the false positives. Their manual testing approach is excellent and tailored to our specific needs and requirements. They ensured that our business requirements were met for each test. Entersoft provided us with peace of mind for our security testing regime with their "value for money" services. The team was extremely responsive to our needs during the testing and reporting phase.



- Ashutosh Kapsé, CISO

**IOOF Holdings Ltd**



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