

Case Study:

Australian Automated Biometric Information System

Project: Defence Australian Automated Biometric Information System

Contract Value: \$550,000

Client: Defence Intelligence Agency

Completed: June 2012 - June 2013

Scope

The Australian Automated Biometric Information System Proof of Concept (AS-ABIS) was a project run within the Department of Defence's Chief Information Officer Group, for the Defence Intelligence Agency. The system processed biometric information collected from remote devices, and matched against known watch lists and imported coalition datasets.

Challenge

The Australian Department of Defence had a requirement to match field collected biometric data with known watch lists and coalition datasets. Sending this information across coalition links to the US Department of Defence and the US Department of Homeland security would be a time consuming and costly activity. In order to address this, the Defence Intelligence Agency and Defence CIOG sought a solution that would allow this data to be processed within Australia. Insitec, partnering with Northrop Grumman, were selected to be the system integrator for the AS-ABIS PoC. Insitec worked closely with Northrop Grumman to functionally replicate the systems in use by the US DoD and US Homeland Security into the Australian Defence Environment.

Project delivered to Defence CIOG and DIO. Able to process multi modality biometric information. Technical Proof of Concept completely successful.

Solution

Insitec were responsible for functionally replicating the US systems into the Australian Defence Environment. Insitec designed the system layout and integration into Defence Data Centres and networks. In doing this, Insitec covered all layers of the solution from Hardware, Operating System, Database and Application. The solution was built at Insitec's secure facility, tested and then integrated into the Defence Environments.

Insitec integrated and then supported a variety of technology sets including

blade servers and SAN storage, VMware virtualisation, Oracle Database and Red Hat Linux during the AS-ABIS Proof of Concept.

During the build of AS-ABIS, Insitec had to redesign the middleware layer to accommodate the differences between standards for the US systems and the standards used by the Australian Department of Defence.

Result

Over the course of the proof of concept period, Insitec provided system support and sustainment. During that time, there were no system wide outages whatsoever, and the system performed all tests and proof of concept activities without incident or failure.

Insitec also ensured that the system was able to obtain security accreditation for integration into the Australian Department of Defence.

The testing that was performed on the AS-

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Insitec is one of Australia's leading technology companies, We have partnered with government, industry and Defence for more than 20 years, building Australia's sovereign capability with innovative, high performance solutions to meet the complex and ever-changing environment of tactical electronic warfare.

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ABIS PoC showed that dataset processing on collected data could be performed many times faster locally within Australia, instead of bulk loading the information into US Systems.

The project was considered a complete technical success. While the project was not rolled to production due to legislative restrictions, it accomplished all technical objectives.

Highlights.

- Over the course of the proof of concept period, Insitec provided system support and sustainment.
 During that time, there were no system wide outages whatsoever, and the system performed all tests and proof of concept activities without incident or failure.
- Insitec also ensured that the system was able to obtain security accreditation for integration into the Australian Department of Defence.
 - The testing that was performed on the AS-ABIS PoC showed that dataset processing on collected data could be performed many times faster locally within Australia, instead of bulk loading the information into US Systems.