

Client: A Multinational Aerospace and Technology Company

Project: Joint Air Battle Management System (JABMS) prototype.

TOOLS & TECHNOLOGIES



- Jenkins
- Ansible
- Docker
- Fortify
- Sonarqube
- Nexus
- Nessus scan
- Github
- RTI DDS
- Confluence
- JIRA
- Code: Java, C++ & python

BACKGROUND

Australia's national security is becoming increasingly complex. Threats to national interest span air, space, sea, land and cyber challenging the Australian government to respond swiftly with a focus on integrating Australian Defence Force capability with Royal Australian Air Force vision.

AIR6500 is currently progressing through a risk reduction program with the Australian Government as part of the procurement that will culminate in the purchase of a modern next-generation Joint Air Battle Management System (JABMS).

Two major aerospace organisation are in a Competitive Evaluation Process to be selected as the program's strategic delivery partner and both have introduced external companies to assist in delivering a range of technical expertise.

KJR has been embedded into one of the competing companies prototype team as Quality Focused Software Engineers, assisting with the setup of JABMS prototype to demonstrate the teams JABMS capability.

CHALLENGE

The Risk Reduction activity is being driven by The Department of Defence and is operating within a strict schedule. As such, the combined team was required to stand up the JABMS capability rapidly to demonstrate elements of the capability to the Departmental representatives.

Elements of the companies existing Battle Manager Systems were imported from the US for integration into the Australian prototype. Not only was it important to deliver successful integration of the US components into the AIR6500 prototype, but also demonstrate improvements through bespoke tailoring aligned with Australian requirements and in-country resources.

SUMMARY

KJR as part of the team created an integrated prototype and then focused on demonstrating a functional JABMS with a safe and secure development environment, established processes using best practice and a knowledgeable high performing team able to adapt and change with needs in Australia.

KJR joined the team at the beginning of the prototype build, configuration and integration cycle took ownership of the delivery of the development environment, processes, and tools utilising elements of their existing Battle Manager Systems, to be integrated into the Australian prototype. Given the green fields nature of the development environment, KJR, as part of a prototype team had the opportunity to shape processes including development practices and configuration as well as implementation of tools in use.

SAFe Agile was chosen as the delivery method.

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DELIVERABLES

KJR's deliverables as part of the Prototype team are ongoing and reviewed by the Commonwealth at the end of each Program increment.

- Functional and non-functional improvements demonstrated every two weeks.
- Full prototype demonstration delivered every 12 weeks.

KEY OUTCOMES

Demonstrated the reduction of risk through the following:

- Demonstrated to the commonwealth a high functioning team, through team communication, relationships, and commitment.
- Demonstrated to the commonwealth a functional prototype, with required components integrated and updated.
- Demonstrated an open architecture able to integrate other components easily.

Hopefully resulting in the company winning the Competitive Evaluation Process, and an extended contract with the Government. The other outcome is a solid foundation for Australia's future Joint Air and Battle Management System delivering protection for the Australian people.