

Case Study:

Federal Government – Department of Defence

Powerdata Group helped Department of Defence with Development of the AMRT (PEX) Application

Client

Federal Government, Department of Defence, Canberra.

Challenge

The Department engaged us to provide aviation specific expertise around Agile requirements management.

Support the ongoing capability development and upgrade of the Army Aviation Patriot Excalibur (PEX) decision support tool as the Aviation Mission Readiness Tool (AMRT).

Our Work

Development of the Capability Manager (CM) Requirements to support the Aviation Mission Readiness Tool (AMRT) capability:

A Tri-Service consultation to ensure the future PEX replacement (AMRT) product meets all stakeholder needs.

- Analysis of the current (PEX) system
- Analysis of the operational and regulatory requirements for Army and Navy Aviation
- Development of the Capability Manager Requirements
- Business Case, Statement of Needs (SON) and Functional Performance Specifications (FPS)
- Assessment of in-service products across defence.
- Report recommendations on a way forward for Army Aviation Command (AVNCOMD) and Navy Fleet Air Arm (FAA) to progress with AMRT

Ongoing development and management of the requirements for the in service AusPEX product and the future state AMRT in an Agile environment

- Develop the necessary Capability Definition Documents (CDD) in support of the AMRT Project – includes the development of CM requirements
- Provide support to the development of AMRT Integrated Project Management Plans (IPMP), Verification and Validation (V&V) plans and support plans
- Assist with ongoing management, requirements development and support for the AMRT Capability product, AusPEX
- Ensure traceability of requirements through OIP and legislation
- Ensure compliance with Defence security, ICT, cyberworthiness and applicable Industry standards for software and ICT systems
- Provide advice regarding software development and associated systems engineering processes in support of the development and implementation of decision support tool products
- Support Defence Aviation Capability Manager (DACM) as the CM representative to accept and introduce new products into service
- Collaboration with and aid the newly formed Defence Data and Analytics programmes
- Establish and maintain a support network across Defence (military, APS, Contractor) and Industry to deliver the required outcomes

The Outcome

Initial analysis, requirements and recommendation have been completed Q2 2022.

AMRT Initial Operational Capability (IOC) will be delivered Q4 2025 with the Full Operational Capability FOC tbd.

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