

Systems Engineering



Raytheon Australia is an industry leader in Systems Engineering, leveraging experience gained from the delivery of successful Mission System Integration (MSI) projects.

Capabilities

Raytheon Australia is a leader in the field of systems engineering in Australia.

This is based on the experience derived from the extensive and ongoing leadership in the delivery of successful Mission System Integrator (MSI) projects. Raytheon Australia's approach is to execute the MSI role over the full project life cycle providing Mission Assurance to the customer.

Raytheon Australia has trained systems architects (trained via a certified architect program), modeling and simulation experts, and other specialist systems engineers that are applied to programs as required.

Life-Cycle Approach

The Raytheon Australia life-cycle approach to systems engineering, based on extensive knowledge and experience, consists of four principle components.

Technical Planning and Control

- Management of scope;
- Systems engineering management;
- Risk management;
- Establishment of a metric plan;
- Consolidated test planning;
- System integration and test management; and
- Configuration and data management.

Requirements and Architecture Development

- Requirements analysis and development;
- Architecture development;
- System functional behaviours;
- System specification and configuration baseline; and
- Bi-directional traceability of requirements.

Product Design and Development

- Product functional interfaces;
- Product functional timelines;
- Analysis and verification data;
- Product development;
- Data collection; and
- Component integration.

System Integration, Verification and Validation

- Product integration;
- System integration;
- System verification and validation; and
- Data collection and reporting.

Tools

Raytheon Australia employs a comprehensive suite of tools in support of its systems engineering capability, supporting processing up to SECRET level.

All processes and tools have been deployed to support rapid start up of small to very large programs, providing an immediate ability to develop and mature artefacts such as system specifications and system design documents.

These tools include:

- DOORS;
- Telelogic Change;
- Criterium DecisionPlus;
- Enterprise Architect;
- Systems Architect;
- Quality Centre (aka Test Director);
- Tau architect; and
- Matlab / Simulink.

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Raytheon Australia
Customer Success Is Our Mission