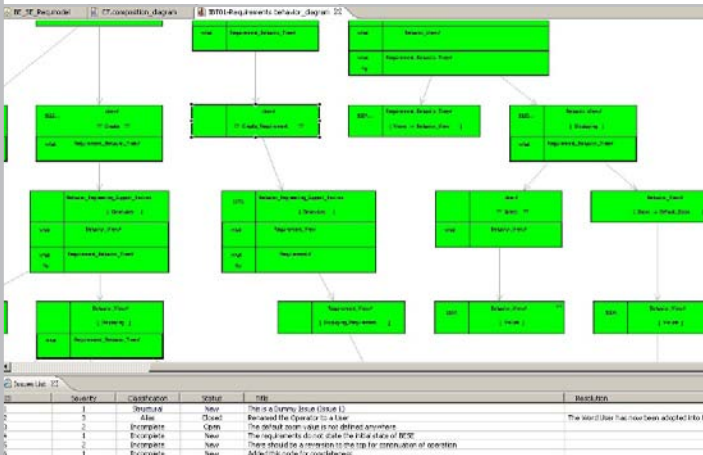


Software Engineering



The Raytheon Australia Software Engineering group develops and maintains all software systems over the complete software system life cycle.

Capabilities

The Raytheon Australia Software Engineering group consists of over thirty staff including software engineers, application programmers and software configuration management personnel.

Our capabilities cover the full breadth of the software engineering domain, including software requirements analysis, design, code and unit-test, integration and test, configuration management, subcontractor management, quality assurance, and software process engineers.

The group specialises in real-time combat system / fire control system software development, safety and mission critical systems, service-oriented architecture (SOA), user-in-the-loop development, human-machine interface engineering, and development of open architecture 'glue' software items.

The group utilises integration technologies such as CORBA, DIS and HLA, allowing us to design and integrate open system solutions that consist of commercial-off-the-shelf (COTS) subsystems and components.

Process

The software engineering group uses a cost competitive and adaptive software engineering process that is compliant with the requirements of IEEE 12207, allowing us to undertake development and support of software products ranging in size from a few thousand, through to hundreds of thousands, of source lines of code.

To ensure that our software processes continue to improve and evolve, RaytheonAustralia operates a continuous software process improvement initiative using the Software Engineering Institute (SEI) software Capability Maturity Model Integrated® (SW-CMMI) framework.

Tools

The software engineering group operates in a software development environment consisting of state of the art tools and technologies, including the DOORS requirement management tools, Rational Rose UML design tool, Rational Software Architect (RSA), Sparx Systems Enterprise Architect (EA), Rational Apex Ada/C++ Integrated Development Environment (IDE), Microsoft Visual C++ compilers, Sun Forte C++ and Java development suites, ORBexpress and TAO CORBA development suites, the Eclipse development platform and application frameworks, and the Tornado development suite for the VxWorks real-time operating system.

Recent Projects

In recent years, the software engineering group has successfully completed, or is working on, the following software development projects:

- Australian Tactical Interface (ATI)
- Collins Sensor Data Server (CSDS)

- Behaviour Engineering and Analysis support environment
- Generic Test Framework
- Augmented Audio Control Network
- CATS (Open Architecture) modeller;
- HACTS - JCTC Gateway;
- Collins combat system tactical gateway
- Combat system trainer Weapon Data Converter (WDC)
- Open interface WDC
- Collins combat system Ada 95 Port
- Collins shore facilities display
- Collins combat system long-term sustainment
- Electronic Warfare Training System (EWTS)
- Radar Emulation Pod (EMPOD)

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Customer Success Is Our Mission