

CORE CAPABILITIES

LEAP Australia supports defence organisations across Australia And New Zealand with advanced engineering simulation, digital engineering, and product lifecycle solutions. LEAP has an experienced technical support team with local experts based in Australia and New Zealand.

- Digital engineering and model-based workflows
- CAD, CAE, PLM, ALM and digital thread enablement
- Engineering simulation and virtual prototyping
- Structural, fluids, thermal, electromagnetic and multiphysics analysis
- Requirements management, configuration control and traceability
- Training, mentoring and workflow creation and deployment
- Support for primes, SMEs, research organisations, academia and government agencies



COMPUTER
AIDED DESIGN



PRODUCT / APPLICATION
LIFECYCLE MANAGEMENT



SIMULATION

DEFENCE EXPERIENCE & QUALIFICATIONS

Defence-Relevant Experience

- Supporting ANZ defence primes, suppliers, research institutions and engineering teams with simulation-led design and digital engineering tools
- Enabling faster design validation, reduced physical prototyping, improved compliance evidence and improved sustainment outcomes
- Experience across aerospace, maritime, land systems, electronics communications, advanced manufacturing and autonomous systems
- Supporting workflows aligned to defence requirements, including requirements traceability, verification and validation, configuration control and lifecycle management

Security & Compliance

- Local ANZ-based support and delivery capability
- Experience working with sensitive engineering and defence-related projects
- LEAP is DISP-ready (application in process).
- Ansys and PTC maintain ISO 9001:2025 certification for their software

PRODUCTS & SERVICES

Ansys Multiphysics Simulation:

- Ansys Mechanical, Fluent, HFSS, Maxwell, LS-DYNA, Discovery, Granta, optiSLang, STK Mission Engineering
- Defence applications including structural integrity, aerodynamics, thermal management, EMI/EMC, radar/RF, blast, impact, modelling hypersonics vehicles and survivability analysis

PTC - Digital Thread and Intelligent Product Lifecycle:

- Creo 3D Computer-Aided Design (CAD)
- Windchill Product Lifecycle Management (PLM)
- Codebeamer Application Lifecycle Management (ALM)

Services

- Software licensing, implementation and support
- Simulation consulting and workflow development
- Training and capability uplift
- Digital thread and PLM advisory
- Defence engineering process improvement

CONTACT DETAILS

LEAP Australia

Ansys Elite Channel Partner and PTC Advanced Solution Provider for Australia & New Zealand.

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Offices in Perth, Sydney, Melbourne, Brisbane, Adelaide & Auckland

Branding:



ELITE
CHANNEL
PARTNER



Statement:

Helping defence organisations accelerate innovation, reduce engineering risk and strengthen sovereign digital engineering capability across Australia and New Zealand.