

NEWSPACE MARKET · COMPANY PROFILE



Zendir

Zendir (Nominal Systems)

Australia · founded 2019 · zendir.io

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as of 20 August 2026



Zendir (Nominal Systems)

Zendir began life in 2019 as Nominal Systems, a digital-engineering spin-out from the space research group at UNSW Canberra Space, founded by Dr Christopher Capon (CEO) and Dr Brenton Smith (CTO). The company set out to make satellite mission simulation and digital-twin technology accessible to engineers, building its original 'Nominal' platform to let teams assemble spacecraft models and rehearse missions before launch. In 2025 the company rebranded from Nominal Systems to Zendir, repositioning itself around an integrated digital-twin platform spanning mission design, simulation, operator training, and automation for both civil space and Defence customers. Zendir's core technology is the Zendir Engine, an asynchronous, high-fidelity simulation runtime capable of running 1000+ concurrent simulated assets and continuous multi-day simulation, with more than 150 modeled spacecraft components and physics models. Around this engine sit Zendir Studio (mission/spacecraft design), Zendir Editor (real-time visualization and configuration), and a REST/Python/TypeScript API layer. The company has been publicly funded and contracted by government and Defence bodies, including a UK Ministry of Defence Space Command contract for collision-avoidance simulation products, a SmartSat CRC-backed Space-Based Space Surveillance research project with UNSW Canberra, and a UK Space Agency-funded AI-for-space-safety collaboration with the University of Strathclyde. In September 2025, as Zendir, it closed an AU\$3M+ seed round led by Beaten Zone Venture Partners and Investible.

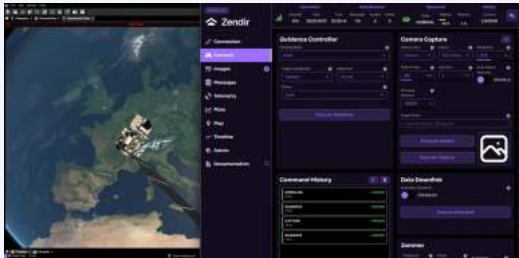
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SERVICES

Services

Digital twin environments for simulation Zendir provides systems-integrated digital twin environments for simulating complex operational scenarios and modeling satellite behavior.	Mission rehearsal Zendir enables customers to rehearse missions using digital twin environments to test procedures, identify risks, and validate decisions before execution.
Mission Workflow Automation Zendir helps automate workflows and trusted logic for repeatable, reliable mission outcomes, reducing manual effort and increasing operational confidence.	Operator training Zendir provides mission-specific training for satellite operators, preparing them for real-world scenarios in complex, high-risk environments.

Product catalogue



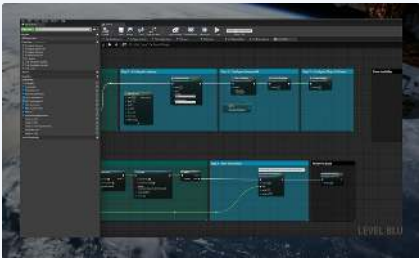
ZENDIR (NOMINAL SYSTEMS)

Zendir API

Programmatic REST, Python and TypeScript interface for automating simulations.

API type	Language-agnostic REST
SDKs	Python ('nominalpy' on PyPI), TypeScript
Integrations	OpenC3, CCSDS-based ground systems

price on request



ZENDIR (NOMINAL SYSTEMS)

Zendir Engine

Zendir Engine is the core digital twin and simulation technology powering operator training, mission rehearsal, and orbital automation for spacecraft missions.

Continuous runtime	Tested running 4 days straight
Simulation throughput	Hundreds of asynchronous simulations per minute
Concurrent assets	Asynchronous runtime tested with 1000+ concurrent assets
Integrations	HitL, SitL, TypeScript SDK, Python SDK, OpenC3, CCSDS, Unreal
API	Language-agnostic REST API with Python SDK and TypeScript SDK
Components	Zendir Studio, Zendir Editor, Zendir API

price on request

Contact Zendir (Nominal Systems)

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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<https://zendir.io>

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