



AGENT-BASED CONFIGURABLE OPEN-SYSTEM REALTIME NETWORK (ACORN)

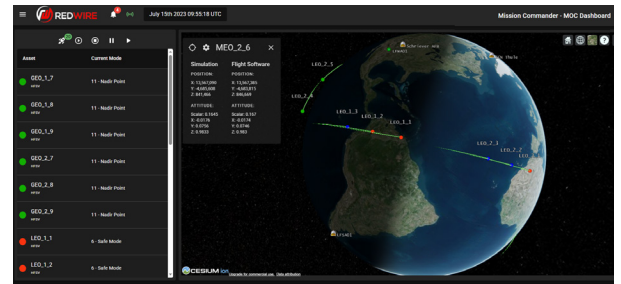
> ACORN Overview

Redwire's Agent-Based Configurable Open-system Realtime Network (ACORN) is a rich set of tools and applications, built on a modular software architecture, designed to support the integration of multiple, disparate systems into a common environment for overarching mission analysis. This Modular Open System Architecture (MOSA) based solution is proven for rapidly building models and simulations of targeted assets. ACORN is flexible, extensible, and agnostic to electrical interfaces, software/firmware modules, and hardware/sub-system components. ACORN is the backbone of space missions, supporting space system design, hardware/software integration, and testing.



SUPPORTED IN ALL MODES

- + Rapid mission concept development and analysis
- + CONOPS development
- + Orbitology analysis
- + Vehicle performance characterization and analysis
- + Representative messaging (traffic, loads, encodings)
- + Fault impact and response analysis



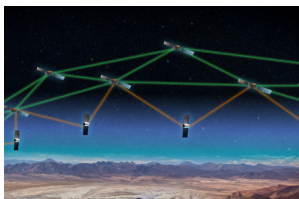
ACORN FEATURES

	SYSTEM (ALL SOFTWARE)	SYSTEM OF SYSTEMS (DISTRIBUTED)	100'S OF COMPOUND AGENTS	1,000'S OF COMPOUND AGENTS
Dynamic & Interactive	✓	✓	✓	
Accelerated Simulation Models	✓	✓	✓	✓
Real-time (or near real-time)	✓	✓	✓	✓
Rapid Integration & Test (in-the-loop/hybrid architectures)		✓	✓	
Component (module) Test, Characterization, & Analysis		✓	✓	
Offensive & Defensive Cyber & Vulnerability Assessments & Analysis		✓	✓	✓
Mission & Operator Training (orchestration)			✓	✓
Immersive Replay Experience				✓



KEY

- Elemental Agent
- Compound Agent



ACORN SOLUTIONS

Redwire's ACORN Digital Engineering Enterprise gives users the ability to rapidly simulate and validate prospective solutions.

- + Digital Engineering for Complex Systems
- + Virtual Cyber, Test, & Evaluation Ranges
- + High-Fidelity Spacecraft Comms
- + Hybrid Architectures, Meshed-Networks & Multi-Domain Ops
- + Supply Chain Digital Twins



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