
Celona Orchestrator AI

Unify private 5G, Wi-Fi, public cellular and satellite into one agentic operations fabric — where engineers and AI agents work side by side.

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Dashboards are no longer enough

Wireless has become the foundation of modern enterprise operations. Factories, warehouses, ports, hospitals, and other mission-critical environments now depend on private 5G and Wi-Fi to connect automation, robotics, sensors, and frontline workers. Yet the way these networks are managed has barely evolved: a separate console for each technology, a different data model for every vendor, and a small group of specialists who know how to interpret them.

That model worked when wireless was simply an access technology. It breaks down when wireless becomes the operational backbone of the business. Cellular-native tools assume deep 3GPP expertise that most enterprise IT teams neither possess nor can easily hire. When issues arise, engineers are often left chasing logs across multiple systems and escalating to vendor support to identify the root cause. Dashboards report what happened but rarely explain why, while critical operational knowledge — what healthy behavior looks like, which alarms matter, and where to investigate first — remains trapped in the experience of a few experts.

Meanwhile, those same lean teams are expected to support more sites, more devices, more traffic, and increasingly autonomous operations. The answer is not another dashboard — it is **an intelligent operations layer designed for both people and AI agents**, where expertise is embedded into the platform and operational knowledge scales across the enterprise without increasing headcount.

Legacy network management — the challenges

- Fragmented operations across private 5G, Wi-Fi, public cellular, and edge.
- Manual troubleshooting by correlating logs, telemetry, and multiple tools.
- Institutional knowledge trapped in experts instead of embedded into workflows.
- Limited AI readiness, with network context and actions inaccessible to LLMs.
- Operations that don't scale, as networks grow faster than enterprise IT teams.

Key considerations for an agentic operations plane

01 Single operating model for a converged network

Enterprise wireless should be operated as a single system rather than a collection of independent technologies. Sites, devices, policies, telemetry, and operational workflows should be represented through a common operating model, regardless of whether connectivity is delivered by Wi-Fi, private cellular, satellite, or future wireless technologies.

02 Configuration expressed as services, not standards

Teams should describe what the network must do — a site, a spectrum policy, a routing domain, a quality-of-service objective for an application — and let the platform translate that into radio and core configuration. Abstracting 3GPP elements behind enterprise services decides whether the network can be run by the team that already runs the enterprise network, or only by specialists.

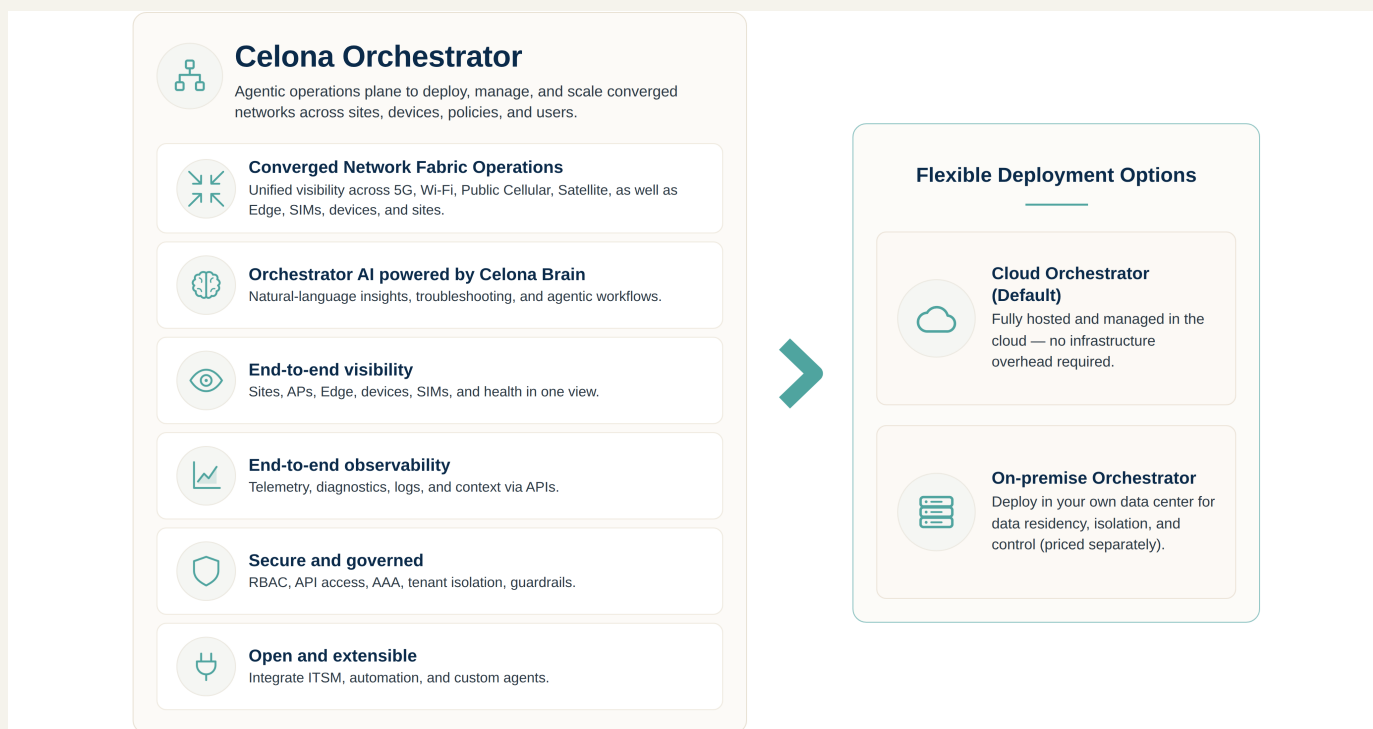
03 Ready for the agentic future

As AI agents become operational teammates, the network must expose context, telemetry, policies, and controls in a form machines can understand. Open interfaces, structured data, and governed actions enable people and AI agents to operate the network together.



Introducing Orchestrator AI

Celona Orchestrator is the cloud-native agentic operations plane for Celona Orion, providing centralized visibility, policy, automation, and control across private 5G, Wi-Fi, and public cellular from a single platform. Orchestrator AI is its agentic layer, connecting the enterprise LLM of your choice with live network intelligence so engineers and AI agents can monitor, troubleshoot, automate, and optimize the network together.



Celona Orchestrator is the cloud-native agentic operations plane for converged wireless networks, bringing visibility, automation, and governance into a single platform.

Built for AI-native enterprise

Orchestrator is built for enterprise production environments, with the governance and controls required to manage mission-critical networks. Role-based access control, SAML single sign-on, and auditable API-driven operations keep every action secure, while organizations keep full control of their AI strategy with their own LLM, credentials, and spend controls.

How Orchestrator runs the converged network

Orchestrator runs the converged network through three layers: the operations plane for configuration and policy, network intelligence for live context, and the agentic layer for AI-assisted operations.



The operations plane configures the network, the intelligence layer exposes live operational context, and Orchestrator AI enables engineers and AI agents to operate from the same foundation.

Operations plane

The operations plane defines, deploys, and governs the converged wireless network through a single cloud-native platform, abstracting technology-specific complexity behind enterprise services and policies. Private 5G, Wi-Fi, and public cellular networks are managed through one agentic operations model across multiple sites, edge clusters, and devices, while regional spectrum requirements, enterprise networking, and QoS policies are applied automatically through guided workflows.

Network intelligence

The network intelligence layer exposes operational data as structured, machine-readable context. Live telemetry, events, diagnostics, application performance, and device experience are continuously correlated and securely exposed through REST APIs, MCP, and event streams, enabling enterprise systems and AI agents to reason over the same operational data as Celona engineers.

Agentic AI

The agentic layer augments engineers with AI agents powered by Celona Brain. Combined with the enterprise LLM of your choice and live network intelligence, it enables natural-language operations, expert reasoning, and governed automation across the converged network.

Together, the three layers provide one operational model for the converged network. Engineers, enterprise systems, and AI agents all operate from the same live network context under the same governance framework.

Benefits

- 01 **One operating model** — Manage converged wireless from a single platform.
- 02 **Intent, not complexity** — Configure services instead of wireless technologies.
- 03 **Answers, not dashboards** — AI delivers root causes instead of raw telemetry.
- 04 **Expertise at scale** — Celona Brain puts wireless specialist knowledge into every workflow.
- 05 **Scale without headcount** — AI agents automate routine operations while people approve changes.



Orchestrator capabilities

From AI-native operations to enterprise networking and governance, Orchestrator brings together the capabilities required to run the converged wireless network from a single platform.

Wireless agentic operations

Human engineers and AI agents work from the same platform. Use natural language to monitor, troubleshoot, automate, and optimize the converged wireless network through Orchestrator AI, powered by Celona Brain and the enterprise LLM of your choice.

Starlink backhaul integration

Extend the network fabric to remote locations. Use Starlink as managed backhaul for temporary or remote sites while monitoring satellite connectivity alongside private 5G and Wi-Fi from the same operational platform.

Device onboarding and lifecycle

Secure SIM and device management at scale. Manage SIMs, eSIMs, device groups, onboarding, lifecycle, and security policies through a unified workflow, with bulk operations, MDM integration, and API-driven automation.

Built for enterprise operations

Enterprise-grade security and governance. Role-based access control, SAML SSO, and multi-level tenancy provide secure operations for enterprises and managed service providers.

Unified wireless operations

Operate private 5G, Wi-Fi, public cellular, and satellite through one platform. Configure sites, policies, devices, and services through a single operating model with consistent visibility, governance, and automation across every wireless domain.

Enterprise services, not 3GPP

Configure enterprise services instead of cellular technologies. Site creator, per-site spectrum policy, enterprise routing, and MicroSlicing abstract wireless complexity behind familiar enterprise networking concepts.

Open platform and enterprise integration

Expose live network intelligence to enterprise workflows. REST APIs, MCP, webhooks, and event streams integrate with ITSM platforms, automation tools, enterprise applications, and AI agents using live network context.

Autonomous operations with Agentic Mesh

Pre-built library with reusable building blocks for people and AI agents. Snippets expose network tools through Celona MCP, skills capture expert know-how, and AI agents apply them through governed workflows.

From network management to AI-native operations

Modern networks need more than management and AIOps. They need an operations plane where people and AI agents work together.

LEGACY NETWORK MANAGEMENT		ORCHESTRATOR – AN AGENTIC OPERATIONS PLANE
SCOPE	Separate consoles, data models, and workflows for each wireless technology.	One operating model for private 5G, Wi-Fi, public cellular, and satellite.
CONFIGURATION	Technology-specific configuration managed by wireless specialists.	Enterprise intent translated into network services and policies.
OPERATIONS	Dashboards, logs, and manual troubleshooting.	Natural-language operations with AI-assisted investigation and remediation.
AUTOMATION	Scripts and disconnected workflows maintained manually.	Curated skills and reusable agents automate monitoring and routine operations.
INTEGRATION	Point integrations with limited context and inconsistent governance.	Live network intelligence exposed through REST APIs and MCP under one model.

Operational use cases

Operate the converged wireless network with AI — from deployment and monitoring to troubleshooting and automation.

Deploy at scale — Standardize sites, policies, and services across the enterprise.

Automate with AI — Proactively detect issues and streamline routine operations.

Unify operations — Manage every wireless domain through one operating model.

Connect your enterprise — Integrate with ITSM, automation, and business applications.

Increase operational reach — Manage hundreds of sites and tenants with lean teams.



New operating model for the AI era

Enterprise networks are becoming the operational foundation for AI, automation, and intelligent applications. Orchestrator transforms that foundation into an agentic operations plane where engineers and AI agents share live network context, expert knowledge, and governed workflows. Instead of adding complexity, organizations gain an operating model where intelligence scales with the business — not the size of the IT team.

Modern networks need more than management and AIOps. They need an operations plane where people and AI agents work together — and with Orchestrator, that future is already here.

01 [Celona Orchestrator product page](#)

02 [Introduction to Celona APIs](#)

03 [Monitoring network events in Celona Orchestrator](#)

04 [MicroSlicing configuration](#)

05 [Celona SIM lifecycle management](#)

Celona is the company behind Celona Orion, the industry's first Agentic Converged Wireless Platform. Enterprises in manufacturing, logistics, mining, energy, and healthcare use Celona to connect the machines, sensors, autonomous systems, and people running their physical operations — with the deterministic performance, security, and enterprise control that off-the-shelf wireless can't deliver. For more information visit celona.io.

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