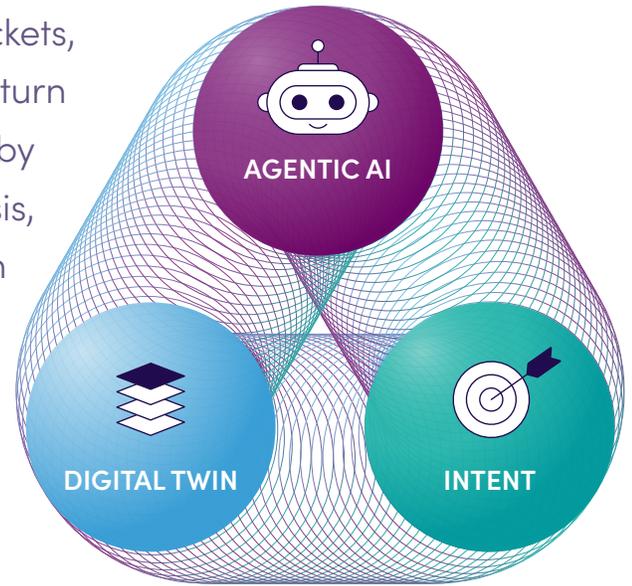# Agentic NetOps for Modern Network Operations

Most network teams are stuck in a loop of manual tickets, reactive firefighting, and fragmented tools that can't turn insight into action. NetBrain enables Agentic NetOps by combining a real-time digital twin, AI-driven diagnosis, and closed-loop operational workflows so teams can prevent issues, accelerate troubleshooting, and execute changes with confidence.

AGENTIC AI

DIGITAL TWIN

INTENT

From Reactive Operations to Agentic NetOps

The Problem	How NetBrain Platform Solves
Operations are reactive. Teams learn about issues after users do. MTTR stays high.	**Real-Time Digital Twin.** A continuously updated view of topology, paths, and state. Every diagnosis is grounded in what's true now—not yesterday's diagram.
Tools are siloed. Monitoring, change, troubleshooting, and compliance don't share context.	**Closed-Loop Operations.** Unified workflows that detect, diagnose, validate, and remediate across the entire network lifecycle. This creates a governed, auditable workflow that produces the operational evidence required by frameworks like DORA, NIST, and NIS2—proving what changed, why, who approved it, and what was validated.
Visibility is static. Snapshots show what was, not what's happening now.	**Full-Stack Real-Time Visibility.** Live operational context across on-prem, public cloud (AWS, Azure, GCP), and Kubernetes environments—eliminating blind spots for modern application paths.
Change risk is hard to control. Pre-checks are inconsistent; post-checks are manual; drift accumulates.	**Change Confidence with Guardrails.** Pre/post validation, automated remediation, and controlled approval workflows that prevent outages. Governed network change tasks turn changes into controlled objects with pre-check, execute, validate, and evidence capture phases, all linked to an approval model.
AI stops at "recommendations." Engineers still do the investigation and execution work by hand.	**AI that Investigates and Acts.** AI accelerates diagnosis and drives outcomes—not just insights. Deep Diagnosis enables iterative, agentic AI-assisted troubleshooting that turns network context into actionable findings. AI Runbook Companion summarizes outcomes and guides next steps in real time. Defensible, Governed AI. AI is applied with explicit boundaries: it investigates and recommends but does not have unbounded authority. Human accountability is preserved with every AI-assisted action being attributable, bound to a workflow, and governed by role-based permissions. Customer data is not used to train AI models.

Why NetBrain

Traditional Operations Tools	NetBrain's Agentic NetOps Platform
Noisy alerting without context	Proactive operations observability with map-based diagnosis & guided resolution
Fragmented point tools	Platform for shared data context across visibility, troubleshooting, and change workflows
Static topology/models	Real-time digital twin for automation and agentic AI
Reactive AI assistants	Agentic AI that understands goals, choose actions dynamically, executes workflows, evaluates results, and decides what to do next—turning insights into a defensible investigation trail, not just a recommendation
Manual change validation	Governed, auditable change workflows with structured pre/during/post validation, automated remediation tasks with approval checkpoints, and logging

Where NetBrain Adds Value to Your Existing Toolset

Market Category	How NetBrain Adds Value
Monitoring Tools (e.g., SolarWinds, Zabbix)	**Adds value.** NetBrain consumes alerts from monitoring tools and automates the diagnosis and remediation workflow—turning notifications into resolved issues.
Network Management Systems (e.g., legacy NMS platforms)	**Adds value.** NetBrain overlays a real-time multi-vendor digital twin and automation on top of existing management data, enabling live decisioning and troubleshooting.
Configuration Management Databases (e.g., CMDBs, discovery tools)	**Adds value / Replaces**. Static CMDB snapshots can become stale. NetBrain's live digital twin provides continuous, real-time discovery and dependency mapping, keeping configuration data accurate and operational context current without manual reconciliation.
AIOps Platforms (e.g., Splunk, ScienceLogic)	**Adds value.** Generic AIOps offer insights and correlations from telemetry. NetBrain's agentic NetOps complements this by operating at the execution and reasoning layer: its agentic AI takes those insights, investigates them against a live digital twin, executes diagnostics, and drives a governed remediation workflow—turning insights into controlled action and defensible evidence.
Orchestration & NCCM Tools (e.g., Ansible, scripting frameworks, SolarWinds, ManageEngine)	**Adds value.** NetBrain adds guardrails—pre/during/post validation and approval workflows—to raw orchestration, making automation safe and auditable.

NetBrain enables Agentic NetOps turning live network context into faster diagnosis, safer change, and closed loop operational outcomes.