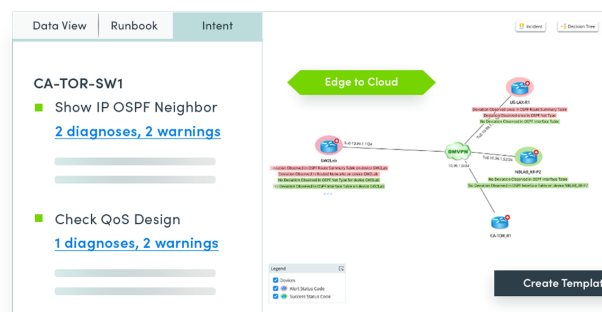


# NetBrain Problem Diagnosis Automation Business Value

Hybrid Cloud-Connected networks must deliver the IT services needed by the business with the right level of connectivity, performance, and security control, while minimizing the cost and risk of doing so. According to Gartner, “the limited network automation in most enterprises creates bottlenecks in provisioning, and in incident resolution, while increasing the likelihood of human errors.”<sup>1</sup> Network teams are understaffed, and according to Enterprise Management Associates, “more than 78% of IT professionals agree that network automation tools can mitigate that challenge.”<sup>2</sup>

## What is NetOps looking to do?

- Reduce the risk of downtime by preventing network outages before they impact the business
- Respond faster to network issues and reduce the time it takes to find and diagnose problems
- Prevent security attacks by verifying intended security policies are in effect
- Ability to ensure application performance is maintained and prevent ‘slow app’ complaints
- Prevent unintended consequences of change management
- Gain end-to-end network visibility in real-time with dynamic mapping and exportable reporting



## What NetBrain will do for you:

- Protect fault tolerance investments, prevent configuration drift, and catch performance degradations early
- Capture, replicate and trigger execution of automation to identify, diagnose, and resolve transient and repetitive issues fast
- Continuously observe and verify that intended network security configurations and policies are in effect
- Automatically ensure configuration changes align with network intent and future changes do not overwrite current changes
- View and analyze the performance of application traffic flows across hybrid networks
- Auto-discover and dynamically map any hybrid network from edge-to-cloud in real-time

## The NetBrain Difference:

- Focuses on service delivery, not the health of network devices, by translating business requirements into network behaviors (Intents) to assure the network is delivering business outcomes at a cost that is in line with business needs
- Addresses Day-2, or ‘everyday’, ongoing network operations rather than just configuration and deployment phases
- Enables any level engineer to easily define and use network intents and perform advanced diagnostics without the need for code
- Includes built-in security and risk control to break down siloed IT and security operations
- Supports multi-vendor and hybrid-cloud infrastructures
- Includes pre-built intents as automation in an out-of-the-box library that any user can draw from regardless of their own personal experience level
- Rapidly scales human troubleshooting knowledge as automation to proactively diagnose recurring and similar incidents
- Includes pre-built intents as automation in an out-of-the-box library that any user can draw from regardless of their own experience level
- Integrates intents in maps and paths for visual troubleshooting and enables collaborative troubleshooting to reduce MTTR
- Protects the entire network during change management and the overwriting of current changes by future changes through verification of existing applications, traffic flows, and the network components they rely on
- Assures application availability and performance by continuously monitoring critical application path metrics

## NetBrain Makes NetOps Strategic

NetBrain revolutionized the Network Operations function. The ‘secret sauce’ for NetBrain is our NETWORK INTENT AUTOMATION technology, which encodes the needs of the business and all its applications and services into executable diagnostics. The diagnostics can span a wide range of characteristics including connectivity, performance, and security requirements. This Network Intent automation technology enables our customers to realize each of these common operational challenges including prevention of outages, automated diagnostics, application performance issues, network security enforcement and protected change management.

NetBrain accelerates the resolution of more than



tasks and prevents more than



of all network problems manifest themselves before they impact production.

<sup>1</sup> Source: Market Guide for Network Automation Tools | Published 22 February 2022

<sup>2</sup> Source: Network Management Megatrends 2022: Navigating Multi-Cloud, IoT, and NetDevOps During a Labor Shortage | April 2022 EMA Research Report

# NetBrain Solves Your Most Common Problems

## 1. Prevent Network Outages



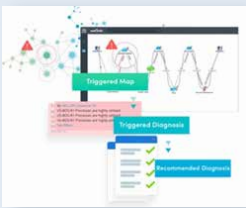
### How NetBrain helps:

- Eliminate configuration drift by enforcing design
- Protect fault tolerance investments to ensure failures don't result in downtime
- Proactively catch and act on performance degradations early
- Prevent security attacks from impacting productivity by continuously enforcing security is working as intended

### Benefits:

- Enforces design rules and compliance at scale
- Maintains application performance by preventing configuration drift and human error
- Lowers operations cost by preventing recurring incidents and repetitive troubleshooting steps

## 2. Diagnostic Automation



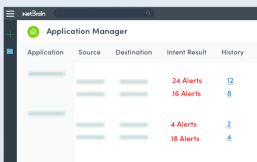
### How NetBrain helps:

- Address 90% of repetitive incidents rapidly with integration with ITSM and network monitoring tools
- Analyze the impact to critical assets such as application flows, failovers, and configuration policies
- Automatically trigger troubleshooting of transient problems and generate alerts
- Enable self-service ITSM, chatbot, and email for NoC, security and application teams to troubleshoot and collaborate anywhere

### Benefits:

- Improves NetOps productivity and efficiency
- Speeds problem solving with collaboration
- Reduces ticket hand-offs and escalations
- Ensures subject matter expertise is always available

## 3. Application Performance



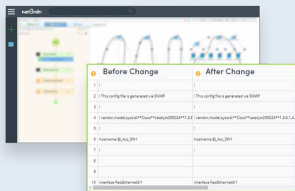
### How NetBrain helps:

- Monitors all application paths across LAN, WAN, SDN, SD-WAN, public clouds
- Analyzes the impact to critical applications and maps traffic paths in a unified dashboard
- Automatically verifies and enforces every application traffic path against baseline topology, state, and condition for connectivity, performance, and security

### Benefits:

- Identifies cause of slow applications
- Maintain application performance requirements
- Prevent security issues like route leaks
- Diagnose transient path issues quickly

## 4. Protected Change



### How NetBrain helps:

- Protects from overwriting current changes with future changes
- Verifies network changes against network design and policies and benchmarks
- Enforces the existing network design rules
- Rollbacks to quickly restore any previous configuration state

### Benefits:

- Guards against configuration drift during change management
- Automates the defining and delivery of network changes
- Assures compliance with network design
- Provides referenceable records for audits
- Safeguards the network from human error
- Speeds configuration updates and eliminates change windows

## 5. Network Security



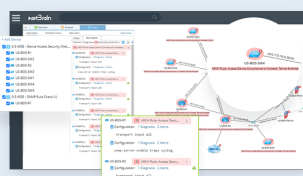
### How NetBrain helps:

- Provides continuous observability and verification (device, border, edge, zone)
- Enables application specific security profiles and controls to be established
- Automates Security Orchestration, Automation, and Response

### Benefits:

- Application-centered network security
- Automated network security diagnosis and mapping
- Leverage existing SIEM tools to drive remediation of network security incidents

## 6. Hybrid-Cloud Visibility



### How NetBrain helps:

- Get in-depth real-time network detail in exportable dynamic maps with contextual understanding of connectivity, performance, and security
- Eliminate visibility blind spots in public clouds
- Create network documentation on the fly
- Auto-create technology maps for follow-up and collaborative troubleshooting

### Benefits:

- Obtain a comprehensive and accurate view of your network, fast
- Add actionable insight and troubleshooting capabilities to network maps
- Allow other operational teams to view and understand the network and its impact
- Uncover where you can optimize resources and reduce costs