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NetBrain Problem Diagnosis Automation System

Driving the cost of NetOps Down, Preventing Network Outages, Reducing MTTR, Leveraging Existing Resources

Prevent Network Outages

- Validate and verify the network is running according to its desired outcomes
- Enforce design rules and compliance at scale
- Prevent configuration drift
- Find deltas to troubleshoot anomalies quickly
- Save time otherwise spent running configurations, not just troubleshooting
- Create network change probes in a large-scale network with high efficiency
- Test for outages in a nearby vicinity
- Replicate the Intent Library at scale

- **Preventive Automation** – verifies the design intents and provides the framework for problem diagnosis based upon deviations from the intended outcomes.
- **Network Intent (NI)** – captures your expected outcomes which can be verified against the live network to detect deviation of those intents.
- **Network Intent Cluster (NIC)** – expands the scope of Network Intent from one network design at a time to one type of network design with similar diagnosis logic.
- **Network Intent Template (NIT)** – replicates network intents across the same types of devices in the hybrid network to scale the performance of troubleshooting.
- **Auto Intent** – network Intents can now replicate itself and enable automation for troubleshooting, design and network assessment at scale.

Proactive Troubleshooting

- Integration with ITSM tools like ServiceNow and network monitoring tools like SolarWinds
- No-code automation creation
- Improve productivity
- Troubleshoot collaboratively
- Interact with automation from anywhere collaboratively
- Make subject matter expertise always available
- Resolve recurring incidents
- Simplify power-user workflow for proactive troubleshooting
- Verify current config impacts to paths

- **Triggered Automation** – responds to external events, tickets from an ITSM such as ServiceNow, and events from Splunk, etc.
- **Chatbots** – universal access to NetBrain intelligence via web, chat, email, ITSM.
- **Interactive Automation** – records network engineers' diagnostic steps to create automation they can use, by getting data from devices, and monitoring and alerting for threshold changes.
- **Map Intent** – leverages maps with embedded intent-based automation and create NI from a map by cloning from NIC/NIT templates directly on a map.
- **Path Intent** – creates intent baselines by calculating critical application flows from live network data to programmatically define path-related baseline data and diagnosis logic. Automates detection of path, failover and routing changes, performance health and configuration.
- **Intent Library** – pre-built automation units ready to use right out of the box and enhanced over time by capturing remediations completed.

Application Delivery Assurance

- Verify application path intents for connectivity, performance, and security
- Maintain quality application performance
- Automated enforcement of network design
- Reduce downtime and service degradations
- Maintain VoIP and video quality
- Visualize infrastructure changes
- Get a history of all path checks

Application Assurance supports the connectivity needs of all your business applications and augments path checks with NI to provide a full assessment of the health of the network in the context of all business-critical applications.

- **Intent Validation** – continuously verifies qualitative conditions for all services to ensure the state and conditions are ideal.
- **Golden Path** – intelligently calculates each application path as the optimal and preferred traffic path.
- **Dashboard** – checks connectivity state, view topology, verify intents, compare trac flows against best or 'Golden' paths for each application, and view history of every state or path change.
- **Alerts** – informs you of any deviations from the Golden Path.

Protected Change Management

- Defendable network change, including definition, execution and results
- Benchmarks network intents prior to change and after the change to determine impacts
- Ensure adherence to existing business approval processes

Change Management allows you to verify network changes with intent-based automation for network design and policies both before and after executing changes.

- **Rollback** – unintended network changes to enforce design intentions for network device changes and the resulting connectivity changes.
- **Automatic documentation audit** – automatically record all changes for future audits including who made the changes, the desired change, and when the change was executed.

Hybrid Cloud Visibility

- Provides mapping and visibility across hybrid network, from edge to cloud
- Real-time auto-discovery driven data model, maintains compliance
- Speeds audit preparation

- **Auto-Discovery and Digital Twin** – discovers the end-to-end network in real-time.
- **Dynamic Map** – maps real-time and historical traffic paths, sites, cloud, L2/L3, SDN, SD-WAN.

Intent-Based Network Assessment

- Assess hybrid network for its ability to deliver its Network Intents

- Assesses Intent-based connectivity, performance, and security at scale.
- More comprehensive network evaluation aligned closely with the needs of the business.

About NetBrain Technologies

Founded in 2004, NetBrain is the market leader for NetOps automation, providing network operators and engineers with dynamic visibility across their hybrid networks and low-code/no-code automation for key tasks across IT workflows. Today, more than 2,500 of the world's largest enterprises and managed service providers use NetBrain to automate network problem diagnosis, generate real-time documentation, accelerate troubleshooting, and enforce enterprise architectural rules.

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