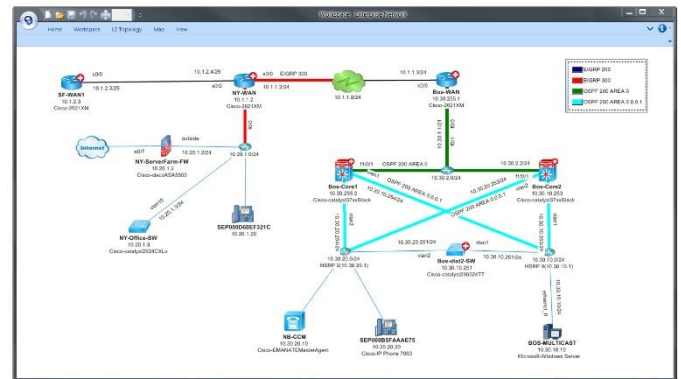## Product Overview

Network consultants hold one of the most demanding network jobs in the world. They often work under tight schedules to analyze new networks with limited documentation, while relying on customized scripts to gather data.

NetBrain Consultant Edition (CE) is designed to make a consultant's job easier by automating time-consuming tasks associated with network documentation, troubleshooting, and security. Powered by deep network discovery (via CLI and SNMP), NetBrain's Adaptive Network Automation provides instant collection, visualization, and analysis of critical network data, without the need to write any scripts. Consultant Edition is a portable solution that can be installed directly on your laptop and plugged into any network.

Dynamic Map – Visualize Any Network Data

Important stories live in data but network consultants struggle to make sense of the vast amount of information available – visualization is a powerful means to discover and understand these stories. With NetBrain, any part of the network can be visualized in seconds.

Automatically Map an Entire Site in Seconds

- **On-demand mapping** – Visualize rich network data in a Dynamic Map powered by a comprehensive data-driven model of the network.
- **Virtually infinite detail** – Any amount of network data can be embedded into NetBrain's Dynamic Maps with customizable data overlays and zoom functionality.
- **Auto-updating** – Recurring benchmarks keep track of network changes and ensure Dynamic Maps are always up-to-date.

Automate Documentation – Create, update, and share Microsoft Office reports with just one click!

Discover

Deep – Discovery via telnet/SSH and SNMP is used to create a model of the network, including both topology and design attributes.

Fast – Up to 2,000 devices can be discovered per hour with a patented neighbor-walking algorithm, requiring only the single input of a seed router.

Accurate – Sophisticated algorithms capable of handling even highly fragmented networks ensure 99% accuracy.

Map

Search and map – Search on just a single data point to create a map from the results, e.g., all Tokyo POP routers which start with the characters "*tok-*".

Map sites – Visualize the overall network architecture of your domain in a site map organized by hierarchy or topology, with container and leaf sites.

Map device groups - Logically group a set of devices by searching on specific attributes or config strings e.g. all Cisco devices.

Document

Network diagrams – Any Dynamic Map can be exported to a fully-editable Visio diagram.

Design documentation – Rich design data can be used to create highly customizable reports in Word e.g. for a QoS design review or VoIP configuration assessment.
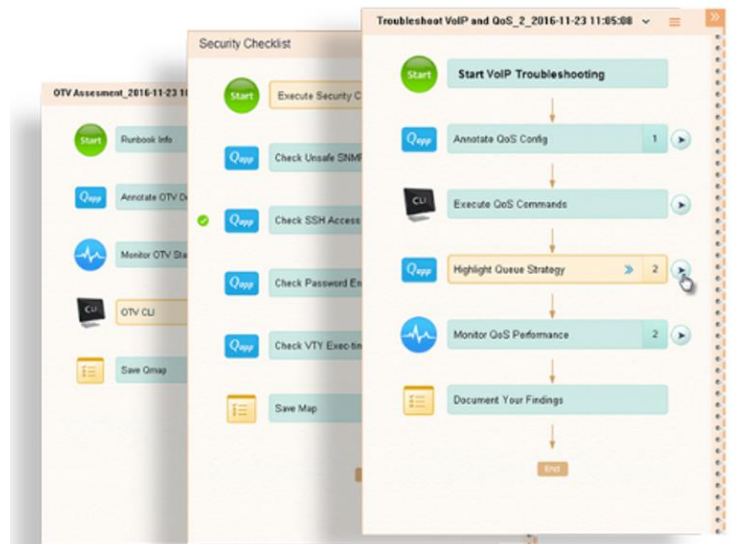
Asset reports – NetBrain's asset reports hold the industry's most comprehensive network inventory data, fully exportable to Excel for analysis.

Top Use Cases

- **Automate Network Documentation**
Instantly create detailed diagrams and asset reports. Data is captured from a deep network discovery and updated from the live network.

- **Automate Troubleshooting Diagnostics**
Create runbooks to check for common issues, such as duplex mismatches. Or use our powerful drag-and-drop automation for instant collection of CLI data. Easily visualize problem areas and alerts on a color-coded map.

- **Ensure Network Hardening**
Secure the network against cyberattacks. For example, use NetBrain's search and map capability to identify all devices with an outdated OS version or one with a known vulnerability.

- **Ensure Compliance**
Prepare for audit by validating network parameters against security and privacy compliance checklists such as those from NIST, PCI, SOX and HIPAA, and producing compliance reports with one click.

- **Assess Network Design**
Visualize any aspect of the network's underlying design by decoding configuration files e.g. for dynamic routing, QoS, Spanning Tree, MPLS, or multicasting.

- **Mitigate Risk Associated with Changes**
Proactively guard against misconfiguration by validating if configurations match pre-defined "golden" templates.

- **Monitor Performance Hotspots**
Identify performance hotspots by checking periodically if CPU, memory, response time and other indicators are exceeding thresholds.

- **Identify Recent Changes**
Compare against historical baselines to check what's changed in topology, routing and configuration, and quickly address any issues.

- **Create a Virtual Model of the Network**
Import configuration files and CLI output into NetBrain to create a virtual model of the customer network and work offline without live access.

Executable Runbooks - Automate Any Workflow

Executable Runbooks provide a framework for consultants to digitize knowledge gained from years of experience into automated processes including troubleshooting guides, design assessments and security checklists. Each runbook is an automated workflow which uses a Dynamic Map both as input for data analysis as well as visualization of the output.

- **Codify repetitive tasks and processes** – Digitize best practices into fully programmable Executable Runbooks, without scripts. Each step in a runbook can be executed with a click, to automate data collection and analysis. Execute batch CLI, or build in more complex logic with a visual programming interface and wizards. Build once, use anywhere!
- **Make workflows executable**– Proactively run design and security checks to assess network hardening requirements, periodically monitor performance, and instantly gather and visualize data to quickly resolve issues when they occur.
- **Visualize, document, and share results** – The results of an analysis are presented visually on a color-coded Dynamic Map. All data collected is embedded into the Dynamic Map, and is available offline for easy playback and sharing.

Embed Automated Workflows into Dynamic Maps

Multi-Vendor Visibility Across Hybrid Environments

NetBrain provides end-to-end visibility across modern enterprise networks with:

- Support for both physical and virtual environments
- Out-of-box support for hundreds of hardware models and technologies across dozens of vendors.
- Broader support achieved through a flexible multi-vendor framework.