Blue Planet Enterprise Automation Suite

Simplify multi-vendor enterprise network management with configuration change management and AIOps-enabled monitoring and guided remediation

Introduction

Blue Planet Enterprise (BPE) Automation Suite is a one-stop network management Software-as-a-Service (SaaS) solution for enterprise IT teams and managed network service providers. It enables you to modernize legacy tooling, gain unprecedented network visibility and control, supercharge your network management processes, and increase operational efficiency by automating time-consuming tasks. As Gartner suggests, "approximately 70% of network configuration activities (i.e., changes and associated pre- and postchange activities) are manually-driven. This leads to configuration drift, as many manual changes are unplanned and undocumented and often aren't cleaned up after the fact. Further, manual configuration changes are ripe for human error as we estimate that 2% of manual changes result in some form of error or anomaly."[1] With BPE, we believe you can overcome these challenges as it empowers you to:

• Assess the network to increase device and software visibility, map network location, and monitor performance

• Reduce human error and unplanned outages with automated software upgrades and configuration management

• Establish golden configurations with enforced operational and compliance control, using advanced features like Real-Time Change Detection (RTCD), policy definition, and automated backup and restore with multi-point rollback

• Optimize performance and avoid slowdowns and outages with AI/ML-based network monitoring and Closed-Loop Automation (CLA) of most-common fault conditions

BPE is the only network management solution that combines automated network configuration and change management with AIOps-enabled monitoring and guided remediation, eliminating most network challenges that arise from human error and misconfigurations at the outset. Designed to help you achieve cutting-edge automation without additional complexity, the platform is easy to use with a simplified user interface and rapid out-of-box setup. BPE extends Blue Planet's powerful automation capabilities—widely proven in the telecom market—to enable enterprises to lower their cost of operations and minimize downtime.

The BPE Automation Suite

Intelligent network automation plus AIOPs-driven monitoring for modern enterprises

Whether your enterprise team is running a campus-level network across a site, or your network is spread across thousands of sites with global operations, BPE combines the capabilities you need with the modular flexibility you prefer. We also have streamlined these capabilities to make them simpler to use with out-of-box rapid setup, SaaS pay-as-you-grow affordability, and cloud-hosted agile feature maintenance and availability to put them in reach of your enterprise team. BPE also provides inventory automation and helps optimize your network performance with ease. Handling software configurations and updates are also made easy with built-in one-to-many and many-to-bulk software update capabilities.

Dynamic Configuration and Change Management (DCCM) and Intelligent NetOps (INO) modules of BPE work seamlessly through a single portal in a shared UI, with dashboards and reporting. Our approach includes multi-vendor capabilities that enable you to combine best-of-breed devices, including both virtual and physical, with a single automation approach.
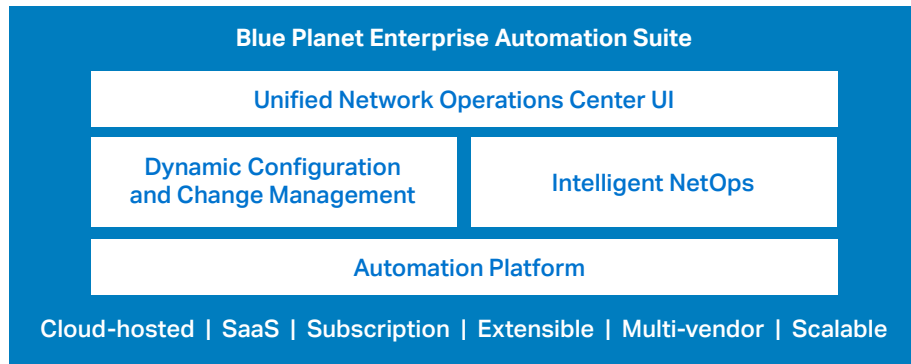
| Blue Planet Enterprise Automation Suite |
| Unified Network Operations Center UI |
| Dynamic Configuration and Change Management / Intelligent NetOps |
| Automation Platform |
| Cloud-hosted \| SaaS \| Subscription \| Extensible \| Multi-vendor \| Scalable |

Figure 1. BPE is the only network management solution that offers automated network configuration along with monitoring and guided remediation

Inventory automation

The first step in implementing network automation is gaining complete, unified visibility of your entire network—regardless of vendor or type. BPE provides automated asset discovery and lets IT teams plan network upgrades, consolidate and optimize capacity, expand network capabilities, and perform critical software maintenance more efficiently. BPE also provides topology maps and path-tracing capabilities to evaluate connections, identify high-availability and routing options, and reduce operational complexity in your network.

Simplify network management with DCCM

DCCM offers robust capabilities required to automate the daily tasks of your network operations. With integrated Information Technology Service Management workflows, management of backups, configurations, and software version control

across all devices becomes an easy task. It also provides centralized control of software distribution across your network devices, with one-to-many and many-to-many bulk updates designed for maximum efficiency. You can easily enforce golden configurations across all devices with just a press of a button. Aided with at-a-glance dashboard reporting, compliance and change management across all devices is no longer tedious and time-consuming with DCCM.

Smart monitoring with INO

INO provides AI-enabled network monitoring, alerting, and fault remediation—built with a foundation of a robust knowledge tree, including rapid Root-Cause Analysis (RCA) and use case–based CLA to accurately assess and fix problems in the network. INO lets you go beyond just monitoring and reactive maintenance. Instead, you can foresee and prevent network problems and avoid downtime with detailed RCA.

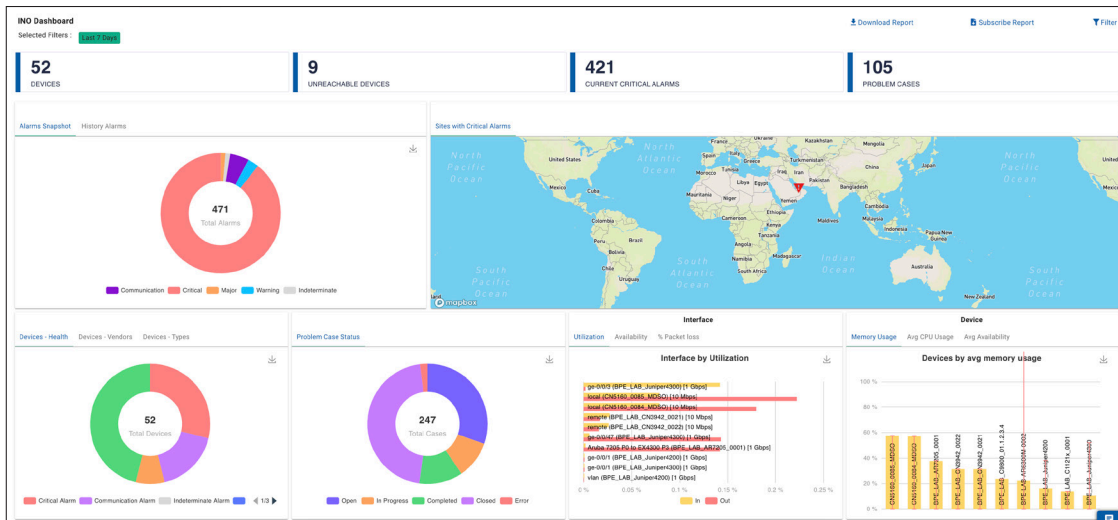*Figure 2. DCCM dashboard enables viewing, analysis, and monitoring of device configuration in real time*

Figure 3. INO dashboard provides a comprehensive real-time view of various network monitoring, performance, and capacity management parameters

Keep your networks up and running at all times

BPE offers a unique combination of DCCM and INO with AI-enabled RCA and CLA to help you always manage and run your network at its best. This BPE Automation Platform provides advanced network automation features with out-of-box simplicity to ensure rapid deployment as a seamless addition to your existing management tools and approach.

Device configuration backup, rollback, and recovery

Tedious processes like device configuration backup, rollback, and recovery are automated through BPE. It lets you simplify configuration testing and validation, and automate device configuration backups.

Software upgrades

BPE provides a centralized one-to-many and many-to-many push capability for software upgrades across all devices, saving time and avoiding potential compliance issues for the network management team.

Standard configuration baselining and template management

BPE simplifies configuration setup with Ansible scripts, fine-tuning and optimizing configurations with real-time change control. In addition, it comes with pre-built Ansible playbooks for all supported device types, making network and device set up very easy. The RTCD feature alerts Network Operations Center (NOC) teams in real time when unplanned and unexpected configuration changes occur on any device, enabling the team to react to potential threats and take appropriate actions.

Compliance management

With BPE, you can seamlessly implement your network compliance requirements across all teams. It also provides approval control of all-new configuration settings before being used. IT administrators can also use the compliance manager feature to proactively check that network devices are compliant with policy.

Advanced monitoring and alerting

BPE's advanced alert management capabilities reduce noise and help the NOC team focus on critical issues with step-by-step remediation guidance. Features like ownership assignment, prioritization, annotation, and alarm suppression help assign next-step responses and improve collaboration across a team.

Compute monitoring and alerting

Extend your view from networks to adjacent compute systems—both virtual and physical—for comprehensive monitoring.

Risk assessment and rating

Gain valuable insights into every network problem with a detailed assessment of threat level and receive custom alerts based on the urgency of the risk.

Problem management

You can gain comprehensive control of network problems through BPE with audit-trail ticketing and tracking to closure.

Closed-loop automation

BPE's CLA systems can guide even inexperienced operators through automated remediation—to get your network operational again rapidly and successfully.

Access control

Role-based access control ensures a streamlined chain of command and minimizes manual errors.

Dashboards and advanced reporting

BPE has multiple dashboards to offer a comprehensive view of your networks. These at-a-glance dashboards are built with a modern UI, and their simple graphical indicators help your team save time and enable rapid network status assessment.

Integration with IT systems

Work with out-of-box setup to integrate BPE with any collaboration platform your team is comfortable with, including:

- ServiceNow
- Slack
- Microsoft Teams
- Opsgenie
- Okta
- And many more

Why choose us?

At Blue Planet, we recognize the incredible pace at which enterprise organizations are compelled to adapt, so we relentlessly innovate to modernize the critical business processes required to manage existing infrastructure and enable new network capabilities. Driven by policy and AI-based insights, our CLA software drives greater real-time alignment between IT and network processes—enabling our enterprise customers to lower their operating costs while optimizing network performance.

For our partners, the opportunity to deliver value-added services along with network automation software has never been more significant. Collaborate with us to grow your business, develop new opportunities, expand services, add value to network equipment sales, and increase profitability.

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