

IP Maestro

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IP Maestro

IP Maestro is an advanced Element Management System (IPMA-EMS) designed specifically to simplify network management, improve network visibility, enhance operational security, and seamlessly facilitate integration with other enterprise systems. Featuring a user-friendly web GUI, IP Maestro reduces operational complexity and enables administrators to monitor, configure, and troubleshoot their OcnOS environments efficiently.

Target Markets

- Telecommunications Service Providers
- Data Center Operators
- Internet Service Providers (ISPs)
- Managed Service Providers (MSPs)
- Enterprise Networks

Key Benefits

- **Simplified Node & Network Management:** Manage extensive network elements from a centralized pane.
- **Network Automation:** Includes mass device configuration, software updates, and Zero Touch Provisioning (ZTP).
- **Ease of Troubleshooting:** Visual indicators for faults, alarms, and straightforward data streaming metrics.
- **Data Analytics:** Comprehensive utilization monitoring with graphical dashboards.
- **Inventory Management:** Maintain a summarized and granular view of hardware and link metrics across deployments.

IP Infusion Product Release Version



Product Name: Refers to IP Infusion Product Family.

Major Version: A major release consists of major new features and/or large architectural changes.

Minor Version: A minor release includes some feature enhancement, functions and bug fixes.

Maintenance: Improvements and fixes to existing features enhancing stability of the product.

IP Maestro Features

The table below lists the IPMA features.

Note, the following mentioned features are only indicative and the detailed feature list may vary.

CORE CAPABILITY	SPECIFICATION
Topology & Inventory	<ul style="list-style-type: none"> Visual Map: Network topology discovery displaying physical connectivity and nearest neighbors. Health Monitoring: Link health status indicated by customizable colors directly on the topology map. Inventory Details: Searchable list of all managed devices with summarized views (CPU, memory, transceivers, administrative statuses).
Metrics & Dashboards	<ul style="list-style-type: none"> Custom Dashboards: Create operator-specific views. Widget contents and layouts are fully editable. Performance Monitoring: Visualized representation of streaming telemetry data with auto-refresh intervals. Trend Graphs: Plotted data to show network trends and detailed statistics maintained per OcNOS device.
Security & Access Control	<ul style="list-style-type: none"> Role-Based Access Control (RBAC): Control system access using predefined profiles - Admin, Operator, and User. LDAP Authentication: Support for Local Directory Access Protocol (LDAP) / Active Directory to federate user authentication. Device Terminal Access: Open multiple secure SSH sessions directly to OcNOS devices right from the IP Maestro browser interface.

Configuration Management	<ul style="list-style-type: none"> • Mass Configurations: Push JSON and CLI configurations from IP Maestro to OcnOS device(s). • Image Upgrades: Download new software images directly to OcnOS devices. • Configuration Backup: Schedule periodic backups of device configurations. • Configuration difference: View the changes in device configurations.
Fault Management & Logging	<ul style="list-style-type: none"> • Alarm Handling: Capture Netconf notifications, alarms, and traps. Visual indications for alarm severities with acknowledgement workflows. • Email Notifications: Automatically send email alerts to specific addresses or mailing lists based on the alarm severity levels configured by each user. • Centralized Logs: Consolidated log repository providing a single point of access with searchable inputs and severity indicators.
System Administration	<ul style="list-style-type: none"> • Remote Backup: Backup the entire IPMA database (system settings and configurations) to a remote server as a compressed archive, and restore when needed. • Internationalization (i18n): Multilingual user interface support, featuring English and Japanese translations. • IPMA Demo VM: Available virtual machine designed for quick trials and Proof-of-Concept testing.

IP Maestro System Recommendations

- IP Maestro can be deployed using Ubuntu Server Edition (20.04 or above).
- IP Maestro can be deployed using VM Hypervisor (KVM 7.2.0 or above).
- IP Maestro uses Containers and Micro-Services built on docker compose (version 2.20.2).

Server Recommendations:

Component	Requirement
Number of Managed OcnOS Devices	250
CPU	8 vCPUs
Memory	32 GB
Disk Footprint	1 TB

Relevant Link

On the IP Infusion website, refer to the [IP Maestro](#) product page.

For More Information

[Contact us](#) today to learn more about the IP Maestro.

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ABOUT IP INFUSION

IP Infusion is a leading provider of open network software and solutions for carriers, service providers and data center operators. Our solutions enable network operators to disaggregate their networks to accelerate innovation, streamline operations, and reduce Total Cost of Ownership (TCO). Network OEMs may also disaggregate network devices to expedite time to market, offer comprehensive services, and achieve carrier grade robustness. IP Infusion network software platforms have a proven track record in carrier-grade open networking with over 500 customers and over 10,000 deployments. IP Infusion is headquartered in Santa Clara, Calif., and is a wholly owned and independently operated subsidiary of ACCESS CO., LTD. Additional information can be found at <http://www.ipinfusion.com>

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