DATASHEET

Modernize your enterprise

NIOS 8.6.3 delivers reliable visibility, automation and control for the hybrid, multi-cloud enterprise

Uptime and reliability are synonymous with Infoblox's flagship and market-leading Network Identity Operating System (NIOS). As the industry standard for core network services, Infoblox continues its unwavering commitment to NIOS innovation, research and development and most of all, Infoblox customers. NIOS leverages more than two decades of mission-critical networking expertise to help you solve the complexities of data center management, legacy to hybrid, multi-cloud migration, and platform integration and automation. Founded on best-of-breed DNS, DHCP and IPAM (DDI), NIOS 8.6.3 expands hybrid, multi-cloud capabilities, strengthens core DDI, extends value-added services and broadens Infoblox's already extensive lineup of available DDI plug-ins to leading industry platforms. These plug-ins not only enable greater visibility, orchestration and automation but also shorten speed to value and enhance the ROI of existing technologies. NIOS 8.6.3 helps keep your network running, performing and resilient, and it ensures the unified management visibility and control, hybrid, multi-cloud integrations and API automation you need to power your modern commercial and enterprise networks—today and for the future.

BUSINESS CHALLENGES

Today's network teams face more business and technical complexities than ever. Yet customers, partners and staff expect 100 percent uptime. Applications must be available, performing, secure and resilient to ensure productivity wherever and whenever users connect. As organizations acclimate to changing business demands, networks must be responsive to adapt and scale dynamically across geographies wherever business goes next. In the transition from a legacy data center to hybrid, multi-cloud services and workflows present challenges that call for consistency, integration and contextual visibility across all end users and devices. Network automation is necessary to streamline provisioning, simplify workloads, reduce costs and eliminate inefficient manual processes and errors so that staffing resources can tackle higher-value assignments. Your platform must enable innovation and rapid deployment of new services while minimizing overhead to drive responsiveness and time to value. Ultimately, your environment must be able to optimize and secure data and infrastructure, especially in view of escalating BYOD, mobility and IoT endpoints and the increasing risks of complex malware, ransomware and data exfiltration. That's a lot. And the evolution will never stop.

Expanded Workplace Modernization
Data center to cloud transformation with new and extended:

- Public/multi-cloud integrations
- Private/hybrid cloud automation

Improved Visibility, User Experience and Control
Stronger DNS, DHCP, IPAM (DDI) with enhanced capabilities for:

- Core network services
- Value-added services
- DDI automation plugins

Fortunately, for large enterprises and service providers, commercial, mid-sized companies and even smaller organizations, Infoblox NIOS 8.6.3 can help solve these challenges. NIOS delivers reliable network uptime and unified visibility and improves user experience, automation and control through extensive hybrid, multi-cloud and API integrations for networks of any size wherever you do business.

NIOS 8.6.3 SOLUTION BENEFITS

Public, Multi-Cloud Automation Expands Workplace Modernization

NI in Public Cloud—Delivers Flexibility and User Experience

NIOS 8.6.3 improves user experience, control and flexibility by enabling Network Insight discovery appliances to be deployed in AWS and Azure to support cloud-first initiatives and data center to cloud migrations, reduce physical data center resources and extend network discovery deployment options to public, multi-cloud environments.

AWS Enhancements–Improve User Experience, Cost Savings and Control

- **AWS R6 Instance Support—Increases User Experience and Reduces Cost**
  NIOS 8.6.3 extends vNIOS support from R4 to R6 instance types in AWS, improving performance and lowering the total cost of ownership.

- **AWS EBS Encryption for vNIOS—Enables Cloud Security and Control**
  Infoblox improves cloud security in AWS with vNIOS 8.6.3 by allowing Amazon Elastic Block Store (EBS) encryption for data at rest, data in transit and all volume backups.

- **AWS Route 53 Sync on Multiple Accounts—Extends User Experience and Reduces Cost**
  For teams needing to manage and sync multiple accounts in AWS R53, NIOS 8.6.3 saves significant time and AWS usage fees by eliminating vNIOS member deployments in each account and synchronizing all R53 hosted zones to the Grid.

- **AWS Route 53 vDiscovery for GovCloud—Enriches User Experience and Control**
  For federal and other government customers, NIOS 8.6.3 enables Route 53 support to AWS GovCloud for highly available and scalable DNS to connect user requests to AWS Internet applications, customize routing policies and reduce latency.

- **AWS EC2 Serial Console—Advances User Experience and Control**
  NIOS 8.6.3 improves troubleshooting, user experience and control in AWS by allowing a direct connection to AWS Nitro Systems and the EC2 Serial Console.

Azure DHCP Rate Limit—Boosts User Experience and Performance

Microsoft Azure previously imposed a DHCP rate limit of three packets per second across the board, which effectively limited its functionality. Azure recently dropped this limitation. With NIOS 8.6.3, Infoblox validates the DHCP rate limit update to support maximum LPS performance. Customers running Infoblox in Azure can realize a better DHCP user experience and higher performance with enhanced throughput, reduced network traffic and fewer records sent to a service over time.

Selective Public Cloud vDiscovery Using CIDR (Private IP)—Empowers Cloud Visibility and Control

NIOS 8.6.3 enables endpoint vDiscovery, visibility and efficient distribution of IP addresses in AWS and GCP by detecting, including or excluding network resources using Classless Inter-Domain Routing (CIDR or private IP).

Private, Hybrid Cloud Extends Workplace Automation and Orchestration

VMware 7.0.x Support—Increases User Experience

For customers with VMware integrations, NIOS 8.6.3 enhances user experience and confidence by providing Infoblox validation for NIOS compatibility with VMware 7.0.x environments.

Nutanix 6.x LTS Support—Enhances User Experience

Nutanix customers benefit from its latest developments with better user experience and the assurance that NIOS 8.6.3 is current and compatible and delivers high performance with Nutanix 6.x LTS environments.

Stronger DDI Enables Reliability and Control

Group Reconnect for GMC Promotion—Allows Better Reliability and Control

NIOS 8.6.3 enhances uptime, reliability and user experience by allowing users to periodically promote geo-distributed Grid members, prioritize Grid reconnection order and verify connectivity while avoiding service outages for greater continuity and control during restart processes.

SHA Encryption for NTP Keys—Strengthens Control

For U.S. government customers, NIOS 8.6.3 improves system security by adding Secure Hash Algorithm (SHA) encryption to the NIOS MD5 (Message Digest algorithm) and DES (Data Encryption Standard) for NTP (Network Time Protocol) Authentication Keys used by implementing Security Technical Implementation Guide (STIG) cybersecurity requirements.

Enhanced Value-Added Services Deliver Better Visibility, User Experience and Control

Microsoft Server 2022 Support—Continues Visibility and User Experience

As a Microsoft Gold Certified Partner, Infoblox continues its commitment to customers with NIOS 8.6.3 by ensuring ongoing user experience, visibility, synchronization, efficiency and scalability with Microsoft Management (IPAM for Microsoft) overlay support for Microsoft Server 2022.

DTC Health Monitor Certificate Validation—Upgrades User Experience and Control

For DNS Traffic Control (DTC), Infoblox's Global Server Load Balancing (GSLB) solution, NIOS 8.6.3 augments user experience by allowing a check on the SSL Certificate Chain-of-Trust used in DTC HTTP Health Monitor certificate validation through improved user interface controls.

Network Insight Juniper Mist Support—Adds Visibility

NIOS 8.6.3 improves Network Insight, Infoblox's on-premises network discovery tool, by expanding Software Defined Network (SDN) discovery and visibility capabilities with support for Juniper Mist. By connecting with the Mist Controller and not each individual device, Network Insight saves time and reduces traffic across the network and matches current compatibility with Infoblox's NetMRI Network Change and Configuration Management (NCCM) solution.

Network Insight SNMPv3 AES-128+ and SHA256+ Support—Intensifies Control

Infoblox enhances control and system security by extending NIOS 8.6.3 Network Insight encryption above AES-128 and authentication protocols above SHA256.

Extended DDI Plug-ins Drive User Experience, Automation and Control

Terraform IPAM Plug-in—Simplifies User Experience and Automation

Infoblox continues its integration with Terraform, an open-source infrastructure-as-code (IaC) data center automation tool for building, changing and versioning infrastructure across multiple clouds and platforms. Last updated in NIOS 8.6.2 for DNS and IPAM, NIOS 8.6.3 simplifies user experience and improves efficiency and control by enabling NIOS object import functionality and extended data source support for enhanced automation.

Certificate Authentication for Ansible and Python Modules Plug-in—Advances Control

NIOS 8.6.3 develops access control by enhancing certificate authentication in the Infoblox Client and Ansible and Python SDK Playbook modules.

Infoblox Python WAPI and Go-WAPI Client Plug-ins—Promote User Experience

Infoblox upgrades user experience and usability with NIOS 8.6.3 by extending Infoblox (Python) Client and Go-Client concurrency and synchronization with the latest version of the WAPI Client Generator.

Kubernetes ExternalDNS API Endpoint Read/Write Plug-in—Raises User Experience, Scalability and Control

NIOS 8.6.3 introduces an API plug-in feature that allows different Infoblox API endpoints (i.e., Grid members) to configure API server parameters and conduct read and write operations with K8s ExternalDNS Plug-in API requests for better user experience, scalability and control.

CONTACT US

For additional technical information, please see the NIOS 8.6.3 Release Notes located in the Infoblox Support Portal at https://support.infoblox.com.

Infoblox unites networking and security to deliver unmatched performance and protection. Trusted by Fortune 100 companies and emerging innovators, we provide real-time visibility and control over who and what connects to your network, so your organization runs faster and stops threats earlier.

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