DATASHEET

Advanced Multi-Cloud Discovery and Integration

NIOS 9.0.4: Resiliency, visibility and control for the hybrid, multi-cloud enterprise

Hybrid and multi-cloud management is the heartbeat of the modern, agile network. Reliable uptime, resiliency and control are essential for driving revenue and keeping business running at peak performance in today's highly competitive and rapidly evolving network landscape.

As the industry standard for critical network services, Infoblox continues its unwavering commitment to our flagship and market-leading Network Identity Operating System (NIOS). Based on a quarter-century of research, listening to customers and developing innovative market solutions, Infoblox announces the next iteration of its best-of-breed DNS, DHCP and IPAM (IP address management) (DDI) platform. NIOS helps ensure network availability and solves the complexities of data center management, legacy to hybrid, multi-cloud migration, platform integration and automation.

NIOS 9.0.4 delivers multi-cloud resiliency, virtual asset discovery and easy Plug-In integrations that improve deployment, automation, ROI and time-to-value. NIOS 9.0.4 helps keep the network available and performing, unifying management visibility and control, cloud automation and platform integrations. NIOS DDI provides the competitive edge to empower productivity and simplify management across modern commercial and enterprise networks—today and for the future.

BUSINESS CHALLENGES

Organizations are facing higher expectations and greater business and technological complexities than ever. Customers, partners and staff expect 100 percent uptime whenever and wherever they connect. Applications must be available, performing, secure and resilient to ensure productivity, especially with remote workers and the expansion of distributed environments. Mounting pressures include cost management, greater agility and innovation for better ROI and faster time-to-value across every market vertical.

Network teams are expected to establish and maintain a reliable and responsive network, able to adapt to changing business needs and scale dynamically across geographies wherever business goes next. Companies are rushing to transition legacy data center infrastructure to hybrid and multi-cloud applications and workloads. This transition increases the demand for greater contextual visibility, accuracy, consistency and integration. Network automation is necessary to streamline provisioning, simplify workloads, reduce costs and eliminate inefficient processes and errors so staffing resources can be redirected to more strategic, higher-value assignments. The network must enable innovation and rapid deployment of new services while minimizing overhead. It must be able to optimize infrastructure and secure data, especially in view of escalating BYOD, mobility and IoT endpoints and the increasing risks of complex malware, ransomware and data exfiltration. That is a lot to manage, and these challenges are only increasing.

Fortunately, no matter what the situation, Infoblox can help. For large enterprises, service providers and commercial organizations, NIOS 9.0.4 delivers market-leading critical network and value-added solutions to empower productivity and simplify management across hybrid and multi-cloud platforms. Unlike other networking companies, Infoblox leverages more than two decades of integrated DDI, innovating to unify visibility, automation and control for enterprise-grade reliability, resiliency and consistency. Expanded cloud capabilities, customer-driven enhancements and extensive integrations reduce complexity, boosting ROI

and efficiency to save time and money. Robust APIs accelerate innovation, speeding time-to-value and enabling agility by scaling workloads where they are needed most. NIOS helps ensure availability, mitigate risk and drive innovation and productivity across the hybrid, multi-cloud enterprise today and in the future.

NIOS 9.0.4 SOLUTION BENEFITS

vDiscovery and Integration Empower Visibility and Resiliency

Multi-Cloud Enhancements

- **NIOS Sync with Azure Cloud-Native DNS Improves Capability and User Experience**
  NIOS 9.0.4 enables admins to configure read synchronization to match Azure Cloud-Native DNS applications for Infoblox objects and the user interface. This feature aligns with current Amazon Route 53 capability, improving user experience and consistency across cloud platforms.

- **NIOS DHCP for Azure Adds Consistency and User Experience**
  With NIOS 9.0.4, organizations with cloud-first initiatives or those interested in decommissioning physical data centers and simplifying migration to the cloud can deploy DHCP for Azure. This capability ensures service consistency by allowing DHCP services to be configured on vNIOS instances in Azure and serve DHCP to on-prem clients.

- **NIOS HA in AWS, Azure and GCP Advances Reliability and Resiliency**
  Application availability and resiliency are network essentials. With this upgrade, NIOS 9.0.4 allows customers running cloud platform (CP) appliances to configure two NIOS appliances for High Availability (HA) redundancy and resiliency to avoid single points of failure in public cloud environments. This feature delivers greater reliability and resiliency for mission-critical cloud applications.

- **NIOS Virtual Advanced DNS Protection (vADP) for AWS Public Cloud Enables Network Uptime**
  As DDoS attacks on Dyn and others have shown, organizations must protect against enterprise DNS-based attacks to minimize costly business disruptions. NIOS 9.0.4 adds vADP for AWS public cloud to detect and mitigate the widest range of DNS attacks including volumetric, NXDOMAIN, DNS hijacking and other exploits, enabling admins to maintain DNS integrity, enhance uptime and extend external DNS protection from local on-premises to public cloud environments.

- **NIOS AWS vDiscovery for Multi-Accounts and GovCloud Increases Efficiency and Control**
  NIOS 9.0.4 enhances efficiency and admin control by reducing multiple discovery tasks into a single discovery job across multiple AWS and AWS GovCloud regions and accounts. It also retains account filters to enable region selection and migration of existing vDiscovery jobs without data loss for a greater user experience, workload efficiency and admin control.

- **NIOS Sync with Amazon Route 53 Multi-Account (Subset Lists) Elevates System Security and Control**
  With NIOS 9.0.4, admins can boost system security and control by extending Route 53 discovery and sync from a single NIOS instance to a list of multiple accounts in AWS. Admins can choose between 1) NIOS providing automatic account discovery, or 2) specifying a list of accounts to be discovered and synchronized from Route 53 environments. The upgrade improves security by 1) preventing child accounts from accessing the root; 2) blocking delegate admin access; 3) inhibiting discovery of all Organizational Unit (OU) accounts; and 4) using Assume-Role permission access.

- **NIOS GCP vDiscovery for Shared VPCs Raises Visibility and User Experience**
  Shared Virtual Private Clouds (VPCs) save space, deliver high security and performance, and are agile and easy to deploy. NIOS 9.0.4 allows admins to discover resources across all shared VPCs on host and service projects. It also enables an admin to include or exclude any service project(s) in a host, improving visibility, user experience and workload efficiency.

![Infoblox logo]

Stronger DNS, DHCP and IPAM (DDI) Network Services

- **Source IP Address in the WAPI Extends User Experience and Control**
  NIOS 9.0.4 enhances user experience and control by allowing an admin to specify and send a DNS request from a source IP address in the web application programming interface (WAPI) from other than the default ("main") appliance interface (normally LAN1). This feature includes using a loopback IP address as the source IP address through the command line interface (CLI) and/or user interface (UI) for better control and overall experience.

- **TLS 1.3 Encryption Upgrades System Security and Compliance**
  By upgrading to Transport Layer Security (TLS) 1.3, NIOS 9.0.4 supports the latest version of the TLS encryption protocol used by HTTPS and other network services to deliver system security and enable customers to adhere to government and enterprise compliance requirements.

Enhanced DDI Value-Added Solutions (VAS)

- **Network Insight Polling Frequency Modifier Boosts User Experience and Control**
  In NIOS 9.0.4, asset discovery provides added configuration and user interface controls to increase or reduce the polling frequency for supported network devices using Simple Network Management Protocol (SNMP) and Command Line Interface (CLI). Admins can accelerate asset discovery to save time or reduce discovery rates to avoid overloading the system for improved user experience and control.

- **Network Insight Device Location Sync to IPAM Increases Visibility and User Experience**
  Real time device data is essential for modern IP Address Management (IPAM). NIOS 9.0.4 enhances visibility by pushing the discovered network device location and SysContact information to IPAM, adding contextual insight for greater visibility, faster issue resolution and remediation.

Extended DDI Integrations and Plug-Ins

- **Terraform IPAM Plug-In 2.6.0 Improves Automation and User Experience**
  Infoblox's Terraform Plug-In enhances automation by adding a new Extensible Attribute as an immutable ID to reference and sync objects simultaneously in NIOS and Terraform user interfaces. This new ID ensures workflow continuity, improved search efficiency and a more consistent user experience.

- **VMware IPAM Plug-In 6.1.0 Enables Workload Consistency**
  Orchestration and automation are keys to network efficiency and cost savings. The NIOS VMware IPAM Plug-In delivers consistent user experience, confidence and trust based on rigorous compatibility validation and testing with recent versions of VMware vRA/vRO 8.8.2.

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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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