

# INFOBLOX NIOS AND NILE ACCESS SERVICE INTEGRATION FOR ENHANCED SECURITY AND VISIBILITY

## SUMMARY

**Infoblox NIOS and Nile Access Service combine to provide a secure and simplified wired and wireless LAN along with core network services: DHCP, DNS, and IPAM.**

The Nile Access Service also continuously monitors Infoblox DHCP and DNS services through the Nile Portal. The combined solution increases network security and enhances visibility and agility for IT teams. This integration empowers IT to respond faster to network changes and security events.

## CHALLENGE

Cloud adoption, an explosion of IoT and BYOD devices, and a hybrid workforce have introduced new attack vectors for enterprises. These attack vectors add to an ever-growing list of physical and cyber vulnerabilities for hackers to exploit using techniques like social engineering, snooping, sniffing, and man-in-the-middle attacks. \$6.9B was lost in 2021 alone from Cyber-attacks in the US<sup>1</sup>. The increases in device and cloud adoption are also driving more traffic to the internet, making both the enterprise network and network IP address management more complex.

In traditional networks, there is no easy, unified way to monitor enterprise network service levels and core network services such as DNS and DHCP. To build a dashboard serving as a single pane of glass, enterprises must invest in a multitude of tools and customize and integrate these tools.

## SOLUTION

Nile provides a secure Network as a Service (NaaS) that natively provides zero trust access for all users and devices connecting to Nile Access Service. The service, through its Zero Trust Isolation mechanism, protects every single connection across wired and wireless devices and prevents peer-to-peer communication. By centralizing policy control and leveraging micro-segmentation, Nile prevents any lateral movement of malware in the network.

Infoblox NIOS is the industry's first cloud-managed solution that enables you to centrally control and automate DNS, DHCP, and IP address management (DDI) for hybrid and multi-cloud networks. Together Nile Access Service and Infoblox NIOS provide a secure network while giving the enterprise IT teams greater control and visibility over their users, devices, applications, and data.

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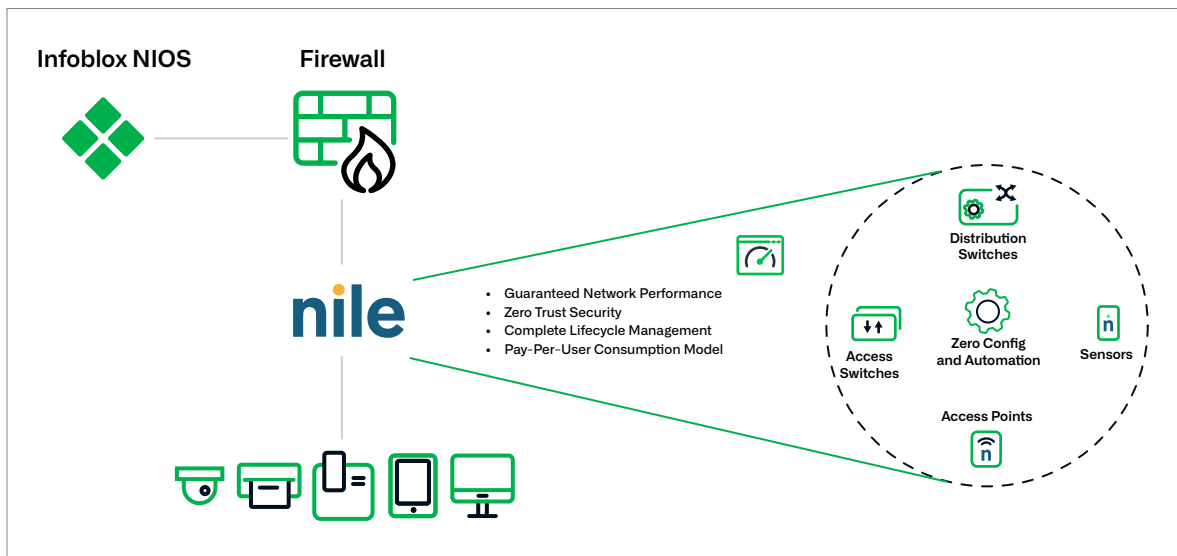
<sup>1</sup> 2021 IC3 Report (2021)

Nile Access Service and Infoblox NIOS complement one another as elements of a cloud-first networking strategy. They both enhance end-user experience with maximum performance and availability. They dramatically reduce complexity by automating routine management tasks or letting IT teams offload them. IT teams gain increased visibility into network operations.

The integration of Infoblox with Nile Access Service provides several advantages to customers:

- **Improved network security:** Infoblox provides advanced DNS security capabilities, such as a DNS firewall, threat intelligence feeds, and DNS-based malware detection. Through this integration, you can extend these security features to your enterprise-wide wired and wireless access infrastructure and protect your network from DNS-based attacks.
- **Streamlined network operations:** Infoblox provides centralized management of DNS, DHCP, and IP address management (DDI) services, which can simplify network operations and reduce the risk of human error. By leveraging Infoblox with Nile Access Service, you can automate the assignment of IP addresses and DNS names to users and devices, which can reduce manual tasks and improve service delivery.
- **Better user experience:** Nile Access Service provides secure access to corporate resources, such as applications and data. By integrating Infoblox NIOS with Nile Access Service, you can ensure that users have reliable and fast DNS resolution, which can improve user experience and productivity.
- **Increased visibility and control:** Nile service provides extensive reporting and analytics capabilities, which can help you gain insights into your network performance, usage, and security posture. The Nile Access Service continuously monitors Infoblox DHCP and DNS services through the Nile Portal, allowing you to drill down on any issues with these critical network services. You can set up alerts for DHCP and DNS failures and receive notifications by email for quick troubleshooting. In addition, you can analyze traffic from users and devices, which can help you detect and remediate issues faster.
- **Performance and scale:** Together, Nile and Infoblox solutions provide a highly redundant and highly available architecture that can scale to meet the needs of very large enterprises while maintaining simplicity.

See the figure below for a high-level solution overview.



## CONCLUSION

The integration of Infoblox NIOS with Nile Access Service improves network security, streamlines operations, enhances user experience, and increases visibility and control. This integration automates network service provisioning and routine network management tasks for DNS, DHCP, and IPAM. The combined solution delivers a superior end-user experience with high-performance connectivity and efficient network services.

### About Nile

Nile delivers the enterprise network entirely as a service. Re-engineered from the ground up to guarantee network performance, and backed by easily verifiable SLAs, Nile completely manages the entire network lifecycle. With Nile, you get a NaaS experience that is rich in performance, foundationally secure, and effortlessly simple—all delivered in a simple, scalable, and flexible pay-per-user model. For additional information, visit [www.nilesecure.com](http://www.nilesecure.com)

### About Infoblox

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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