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NIOS DDI and value-added services features and capabilities
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Infoblox, the industry leader in DNS, DHCP and IP address management (DDI), continues over two decades of reliable, robust, mission critical DDI as the foundation for the secure data center, virtualized network, and hybrid, multi-cloud environment of any size today and into the future. The following table highlights select capabilities of Infoblox's Network Identity Operating System (NIOS) for core and value-added network services.

CORE NETWORK SERVICES

Select DDI Features & Capabilities				
DNS	**NS1** GD License	Authoritative DNS	DNS Blocklisting & Blackholing	
		Recursive DNS & Secondary Authoritative Services	DNS & DNS Forwarding Proxy (DFP)	
		Name ServerGroups	DNS Server Configuration Profiles	
		DDNS Updates	DNS Super Host Support	
		DNS Record Aging & Scavenging	DNS Views	
		High-Performance Query Monitoring	DNS Zone Data Import, Export & Transfers	
		DNSSEC Signing & Validation	NXDOMAIN Redirection	
		DNS Anycast		
DHCP	**NS1** GD License	DHCP Failover	DHCP Options, Option Space & Option Ranges	
		DHCP Filtering	DHCP Server Configuration	
		DHCP Fingerprinting	DHCP Utilization Thresholds	
		DHCP Fixed Addresses	IPv4 and IPv6 Support	
		DHCP Notifications, Alerts & Forwarding	Network Templates (Fixed Address & Ranges)	
IPAM	**NS1** GD License	CSV Import & Export	IPAM Utilization Thresholds	
		Extensible Attributes & Smart Folders	IPAM Visualization& Reservations	
		IPAM Discovery& vDiscovery	VLAN Management	
		Network Views & Overlapping Address Space		

Select DDI Features & Capabilities

Grid	**NS1** GD License	Approval Workflows	HA using Virtual Router Redundancy Protocol (VRRP)
		Authentication: Local DB, LDAP, RADIUS, SAML & SSO	Manual & Scheduled Backup & Restore
		Auto-Provisioning	NTP Server & NTP Client
		Automated Software Updates : Centralized, Groups & Scheduling	Out-of-Band Management
		Centralized Licensing Repository	Recycle Bin
		Customized Dashboards	Role-Based Access Control (RBAC)
		Encrypted Communications between Members	Secure, Hardened Hardware & Virtual
		Grid Member Candidates (GMCs) for DR & Redundancy	TFTP/HTTP File Distribution
APIs	**NS1** GD License	Cloud API	Outbound API (Ecosystem License)
		REST -BasedWeb API (WAPI)	Perl API (PAPI)
Cloud Public	**NS1** GD License	AWS Cloud Support	Google Cloud Platform (GCP)
		Azure Cloud & Azure Stack Support	Oracle Cloud Infrastructure (OCI) Support
Cloud Private	NS1 **GD** License	Nutanix Support	OpenStack Support
		Red Hat OpenShift Support	VMware Support
Cloud vNIOS Hypervisors	NS1 **GD** License	KVM Support	Nutanix Acropolis Hypervisor
		Microsoft Hyper-V Support	VMware ESXi Support
Cloud vNIOS IPAM Integration & Orchestration	NS1 GD License	Ansible Collection Support	Terraform Support
		Calm (3rd Party) Support	VMware Support
		Docker Support	NIOS Grid Connector (View DDI Data in the Cloud)
		Kubernetes Support (API)	Cloud Platform (CP) Infoblox Appliances Support
		OpenStack Support	
Logging	NS1 GD License	Customer Facing Logs (Download & View)	Microsoft DNS/DHCP Log Capture
		Log Forwarding to On-Premises (via CDC)	Internal Syslog Viewing & Remote Syslog

VALUE-ADDED SERVICES (VASS)

Select VASs Features & Capabilities			
Advanced DNS Protection (ADP)	NS1 GD with ADP/vADP License	Advanced DNS Protection (ADP & vADP)	DNS Rate -Limiting
		Block DNS Attacks using DNS Attack Signatures	Operating System Hardening
		DNS ACL Templates	Threat Adapt for Automatic Rule Updates
Network Insight (NI) On-Premises Discovery	NIGD License	Network Device & Endpoint Layer 2 Physical & Layer 3 Logical Discovery & vDiscovery	Automatically Convert Discovered Assets to IPAM Objects, Configure Routers & Switch Ports
		IP Addresses, Subnets, Interfaces, Components, SDN/SD-WAN & Topology Discovery	Switch-Port Management
		IPAM Integration, Visibility & IP Conflict Detection	VLAN Management
		Extensible with > 90 Supported Vendors	Device/OS Lifecycle, Security Advisories, Compliance & Violation Remediation
Cloud Network Automation (CNA) Multi-Cloud Discovery	CNA License	Automated DDI Cloud Discovery & vDiscovery	Single Control Plane Management
		DDI Auditing, Automation & Reporting	Open RESTful API Orchestration Tool Integration
		Route 53 Sync	
Microsoft Management (MS) Discovery & Sync Overlay	MS License	Active Directory (AD) Sites & Services Management & Sync	DHCP Sync for MS Servers
		Agentless Component Syncing	AD User-IP Address Identity Mapping in IPAM
		DNS Sync for MS Servers	
DNS Trac Control (DTC) Global Server Load Balancing	DTC License	DTC Global Server Load Balancing	LBDN, Pool & Server Management
		DNS & IPAM Integration	Real-Time Configuration Testing
		Industry Load - Balancing Algorithms	Subnet, GeoIP & Extensible Attributes
		Intelligent Health Monitors	Visual GUI & Single Control Plane
Reporting & Analytics (R&A)	v5005 Activation with Indexing xxGB	100+ Templated & Customizable Dashboards & Reports	Predictive Analytics & Query & Response Logging
		Centralized Data Archival	Scalable Indexing (500MB-20GB)
		Integrations with Cloud, DDI, DTC & Ecosystem	Splunk-Based Alerting, Reporting & Visualization

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Select VASs Features & Capabilities

Security Ecosystem Visibility, Orchestration & Data Sharing	Ecosystem License	Automated Real-Time Event Notification	Remediation Response
		Advanced Threat Detection (ADT), Threat Intelligence Platform (TIP), Security Info & Event Management (SIEM), Vulnerability Management, Network Access Control (NAC), Endpoint Security, Web Gateway, IT Service Management (ITSM) & Security Orchestration, Automation & Response (SOAR) solutions	STIX/TAXII, REST API, 3rd Party Protocols
		> 40 Integrated Vendors	Contextual Network Data Sharing

The features and capabilities noted above are a selected excerpt of the robust functionality oered in the Network Identity Operating System (NIOS). For more information, please consult your Infoblox Solution Architect or documentation available in the Infoblox Documentation Portal.