

Infoblox network insight

VISIBILITY...EFFICIENCY...CONTROL!

Infoblox Network Insight takes managing core network services to a new level.

TODAY'S NETWORKS PRESENT UNIQUE MANAGEMENT CHALLENGES

Managing core network services in complex, dynamic enterprise network environments is a daunting task. Currently data is created and maintained by different teams at different times with different data-collection objectives. IT teams using disparate tools and data sources burden the OPEX budget with inefficient workflow processes, less-than-optimum resource utilization, and an increased risk of introducing errors.

ADVANCED IPAM WITH NETWORK INSIGHT

Infoblox Network Insight, a key component of the Infoblox DDI product suite, brings unprecedented visibility to the IPAM solution and enables integrated workflows that are shorter, more accurate, and based on an authoritative collection of data. Infoblox DDI with Network Insight improves visibility and operational efficiencies, resulting in better resource utilization and lower operational costs.

GAIN UNPRECEDENTED VISIBILITY INTO YOUR NETWORK

Access an authoritative, integrated database of protocol, IP address, network infrastructure device, end-host, connectivity, and port data—breaking down operational silos in IT. The collection and correlation of this data provides unprecedented visibility, helping administrators easily gather information, analyze it, then take the appropriate actions to better manage their networks, validate designs, and effectively provision, troubleshoot, and deliver network services. Network Insight reduces security and service interruption risk through the detection of rogue devices, errors, and unmanaged devices and networks that go unseen in standard IPAM tools. Network Insight's comprehensive inventory of switch ports makes port-resource management easy.

VASTLY IMPROVE OPERATIONAL EFFICIENCIES

Streamline operations with integrated workflows. Provision, troubleshoot, and remediate errors, and manage and control switch ports from a single UI. Network Insight's aggregated collection of network data improves decision-making and network operations by delivering actionable information,

KEY CAPABILITIES

Get Detailed Visibility across the Network

Discover all layer-2 and layer-3 devices, end-hosts, connectivity, switch-port, and VLAN data. See into VRF and NAT'd space.

Improve Operational Efficiency

- Automate controls to improve workflow cadence.
- Allocate IP addresses and ports from a single UI.
- Directly control port administration status.

Better Manage IT Resources

Use built-in controls and automatic auditing to delegate and free up highpaid human resources for more strategic work.

Reduce Service Interruption Risk

- Easily validate network designs.
- Easily identify misconfigured networks, switches, and misplaced servers.

Expansion

Handle M & A without network outages from overlapping IP addresses, lost knowledge, or missing network architecture documentation.

automation, and controls. Granular role-based administration, coupled with automation and control, enables IT teams to delegate tasks to less-expensive human resources such as support teams in order to free up expensive resources for more strategic engagements.

LEVERAGE AUTOMATION AND CONTROL

Use built-in controls to ensure that your network is connected and running just the way you designed it. Compare planned changes with discovered results. Network Insight's single source of network infrastructure, end-host, connectivity, and core network services data delivers more efficient workflows across IT teams, reducing time, effort, and errors. Automatic detection of IP address and port usage information improves accuracy. A conflict is flagged when a reserved port or IP address is discovered to be associated with something other than what the original reservation called for. Such accurate data supports "Use next" for ports and IP addresses, making provisioning simple and refined.

KEY CAPABILITIES (CONT'D.)

Cross-Functional Harmony

When security, server, and network teams share trusted data they can make quick, reliable decisions, delegate tasks, and eliminate departmental dependencies.

KEY PRODUCT FEATURES



Comprehensive, Tunable Network Discovery

Gathering up-to-date Infrastructure and device data enables the network team to see and take action on networks and devices that are not currently managed within the IPAM database; you can't manage what you don't see. Comprehensive switch-port data refines the management of port resources as well as enabling "Use next available port" and "port reservation" features. Tunable discovery allows network teams to create schedules to "black out" discovery and switch-port operations by network in support of critical uptime and response requirements.



Authoritative Network Database

A single collection point for viewing protocol, network infrastructure (layer-2 and layer-3 devices), end-host, connectivity, switch-port, and all related IP data empowers IT to reduce mean time to repair (MTTR), exclude the network as a root cause, and confidently automate processes.



Integrated Workflows

Network management involves a wide variety of tasks that can be simplified by having access to all the necessary data for getting the work done from a single user interface. By integrating discovery, port control, and permission request features into the workflows for managing core network services, multistep processes that leverage templates and automation help admins perform more efficiently with the necessary checks and balances that ensure accuracy.



Grid Member

Network Insight's Network Data (ND) Appliances are fully integrated Infoblox Grid™ members. Grid appliances are linked using sophisticated distributed database technology. This unified system provides a single point of management and seamless updates with zero downtime, with built-in security and resiliency.

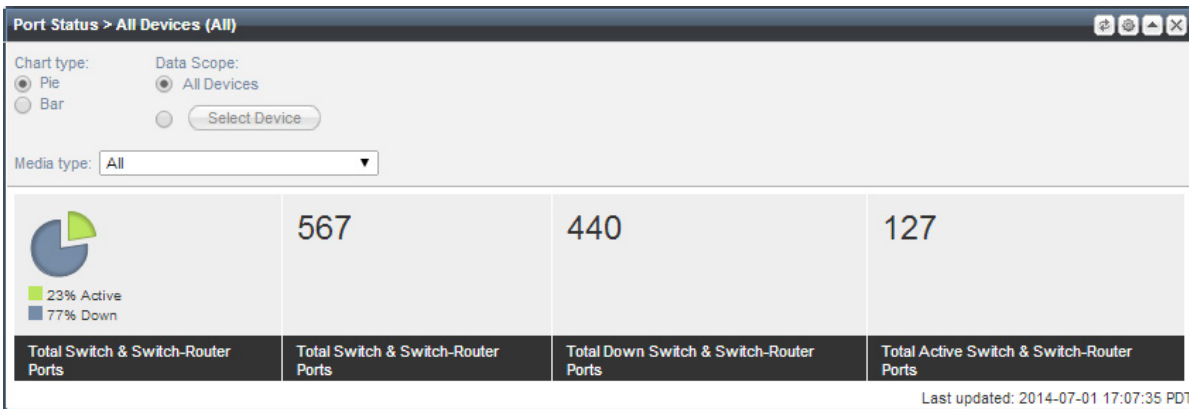
DEVICE TAB IN THE DDI GUI

IP Address	Name	Type	Model	Vendor	Device Version	Location	Description
10.60.0.0	unknown	Router		Cisco			
10.60.0.11	unknown	Virt Gateway		Cisco			
10.60.0.12	time-3706-48-a	Switch	cat9507v3Back	Cisco	12.2(5)SE3		Cisco IOS Software, C3750E Software (C...
10.60.20.1	core1.infoblox.com	Switch-Router	cat8006	Cisco	12.2(1)T5E3B10		Cisco Internetwork Operating System Soft...
10.60.30.10	infoblox-board...	vNOS	IS VM 2200	Infoblox	6.9.0	Unknown	Infoblox IS VM 2200 NIOS Version 6.9.0
10.60.30.11	mgmt.infoblox.c...	vNOS	ND-10200	Infoblox	6.9.0	Unknown	Infoblox ND-10200 NIOS Version 6.9.0
10.60.30.12	mgmt1.infoblox...	vNOS	ND-V1400	Infoblox	6.9.0	Unknown	Infoblox ND-V1400 NIOS Version 6.9.0
10.60.30.13	mgmt2.infoblox...	vNOS	ND-V1400	Infoblox	6.9.0	Unknown	Infoblox ND-V1400 NIOS Version 6.9.0
10.60.30.14	ml.infoblox.com	vNOS	IS VM 410	Infoblox	6.9.0	Unknown	Infoblox IS VM 410 NIOS Version 6.9.0
10.60.30.15	mgmt3.infoblox...	vNOS	ND-V1400	Infoblox	6.9.0	Unknown	Infoblox ND-V1400 NIOS Version 6.9.0
10.60.30.200	unknown	Switch	PowerConnect...	Dell	5.3.3.3		PowerConnect E248, 3.3.3.3, VtWorks 8.5
10.60.30.210	juniper-mgmt2	Switch-Router	EX4200	Juniper	10.2R1.8	rack465	Juniper Networks, Inc. ex4200-48t Inter...
10.60.31.1	SK013-4c	Switch-Router	cat9507v3Back	Cisco	12.2(5)SE3		Cisco IOS Software, C3750E Software (C...
10.66.71.2	test-switch2	Switch	cat9507v3Back	Cisco	12.2(5)SE2		Cisco IOS Software, C3960S Software (C...
10.66.72.1	unknown	Router					
10.66.100.55	unknown	Router					
10.120.18.40	demomgmt1	Router	ID-1400	Infoblox	6.8.1	Santa Clara	Infoblox ID-1400 NIOS Version 6.8.1
10.120.18.47	demomgmt1000	Switch	N1KV	Cisco	4.2(1)R922.1	PAK-3-1021	Cisco NX-OS(Sw) nexus, Software (nexus...
10.120.25.70	unknown	vNOS	Unknown	Unknown	Unknown	Unknown	Infoblox ND-V1400 NIOS Version 6.9.0
10.120.25.79	mgmt.com	vNOS	ND-V1400	Infoblox	6.9.0	Unknown	Infoblox ND-V1400 NIOS Version 6.9.0

The Device Tab in the DDI interface displays all level-2 and level-3 devices along with all the important parameters. By selecting a device, users can drill down to see the interfaces, networks, IP addresses, ports, VLANs, and end hosts associated with it.

SWITCH-PORT INVENTORY DASHBOARD WIDGET

The Infoblox user interface has a variety of dashboard widgets that provide users with a quick overview of situations on their networks. Network Insight’s comprehensive inventory of switch-ports and their current status is shown on the new switch-port dashboard widget—a perfect way, to quickly understand the current state of an important network asset.



NETWORK INSIGHT AND THE INFOBLOX REPORTING APPLIANCE

Network Insight’s rich addition to the IPAM database is reported on in various ways. There are six new reports added to the reporting server that provide valuable information on the historical usage of switch-ports. Two such reports, Port Capacity by Device and Port Capacity Delta by Device, provide the type of historical information that helps network administrators optimize their switch-port resources.

Port Capacity by Device

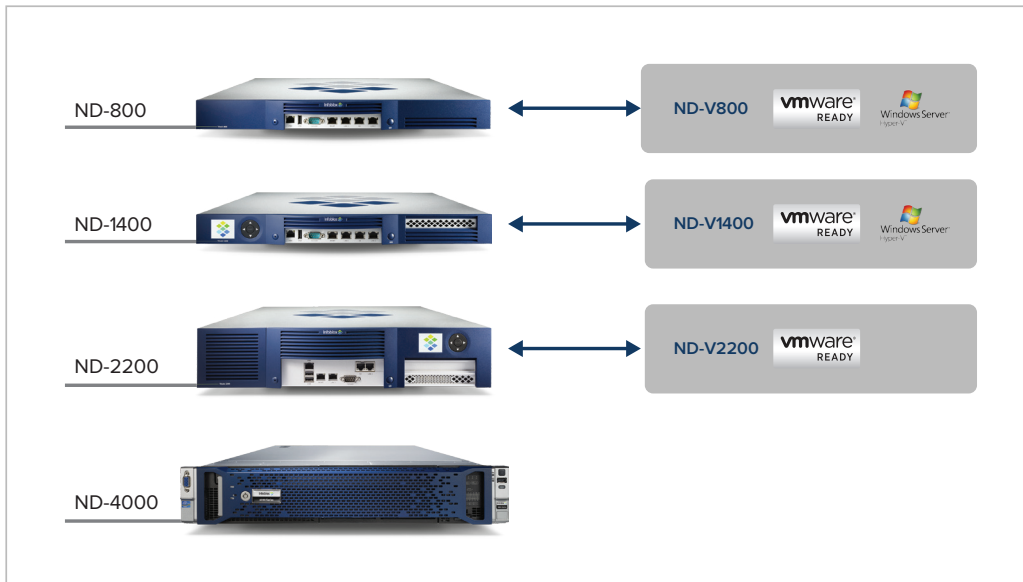
Device Name	Admin-Up/Operation-Up Start	Admin-Up/Operation-Up End	Admin-Down/Operation-Down Start	Admin-Down/Operation-Down End	Admin-Up/Operation-Down Start	Admin-Up/Operation-Down End	Total Available	Network State
1. PS.me.infoblox.com	0	0	0	0	0	0	1	6 default
2. SK013-4c	18	18	1	1	35	36	36	55 default
3. VRF-Router	1	1	1	1	0	0	0	2 default
4. V4602-24c	2	2	0	0	26	28	28	31 default
5. core1.me.infoblox.com	27	28	1	1	22	22	22	50 default
6. gm-bill-lab	1	1	3	3	0	0	0	4 default
7. gm-mnmdns-lab	1	1	3	3	0	0	0	4 default
8. juno1-rack2	3	3	0	0	46	46	46	51 default
9. ml-bill-lab	1	1	3	3	0	0	0	4 default
10. ml-mnmdns-lab	1	1	3	3	0	0	0	4 default

Port Capacity Delta by Device

Device Name: PS.me.infoblox.com

INFOBLOX NETWORK DATA (ND) APPLIANCES

Infoblox ND Appliances come in four physical and three virtual platforms.



For the physical ND Appliances, a 1 Gb & 10 Gb Ethernet SFP fiber interface option is available on the ND-1400, ND-2200, and ND-4000. Those appliances also offer both AC and DC power supply options. VMware is available for all three virtual appliances ND-V800, ND-V1400, ND-V2200, while Microsoft's Hyper-V is only available on the ND-V800 and ND-V1400.

FLEXIBLE CONFIGURATION OPTIONS TOTCH NETWORK STRATEGY

Whether network planners use a centralized approach or a distributed architecture, Network Insight ND Appliances can be configured to fit any networking strategy and are part of the Infoblox Grid. The ND Appliance has two modes: consolidator and probe. A single ND Appliance is by default the consolidator performing both data collection and the storage and compilation of device and network data. When subsequent ND Appliances are added, they become probes. There is only one consolidator ND Appliance on the Grid. Once a network probe has been added, the consolidator's data collection function is disabled but continues to act as centralized storage and compilation of device and network data.



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.

Corporate Headquarters
2390 Mission College Blvd, Ste. 501
Santa Clara, CA 95054

+1.408.986.4000
www.infoblox.com