

# Infoblox Network Insight

## 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, 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.

## 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 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 and identify rogue switches, routers and misplaced servers.

### Expansion

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

## 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

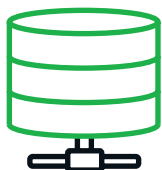
When security, server, and network teams share trusted data they can make quick, reliable decisions, delegate tasks, and eliminate departmental dependencies.

## 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

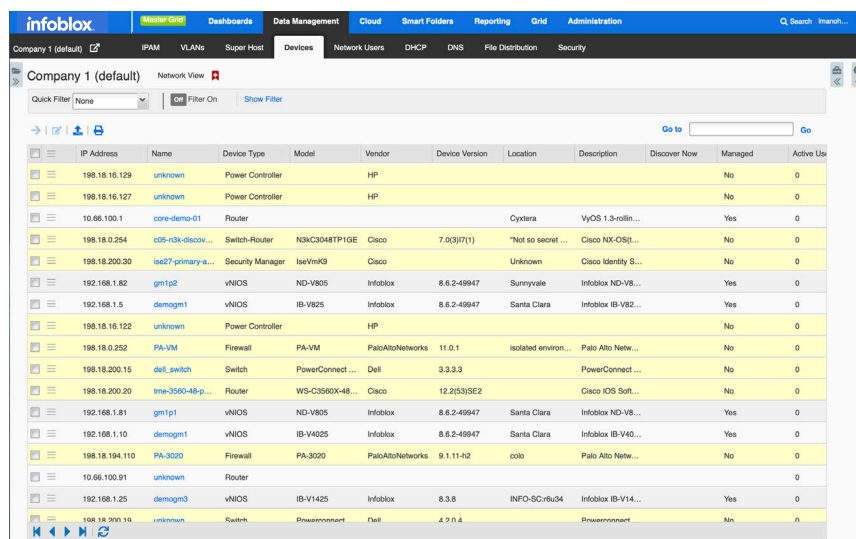
Network management involves a wide variety of tasks that can be simplified by having access to all the necessary data for getting the work done from a single user interface. By integrating discovery, port control, and permission request features into the workflows for managing core network services, 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, through built-in security and resiliency.

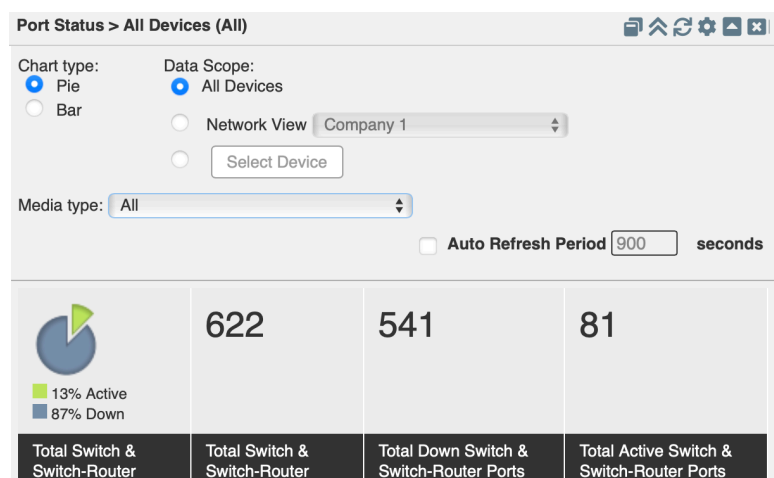
## DEVICE TAB IN THE DDI GUI



IP Address	Name	Device Type	Model	Vendor	Device Version	Location	Description	Discover Now	Managed	Active Use
196.16.16.129	unknown	Power Controller		HP				No	0	
196.16.16.127	unknown	Power Controller		HP				No	0	
10.66.100.1	core-demo-01	Router				Cytera	VyOS 1.3-roll...	Yes	0	
196.18.0.254	c05-r3k-discov...	Switch-Router	N3K-C3048TP1GE	Cisco	7.0(3)(7)1		*Not so secret ...	No	0	
196.18.200.30	isd27-primary-s...	Security Manager	IseVmk9	Cisco		Unknown	Cisco Identity S...	No	0	
192.168.1.82	gm1p2	vNOS	ND-V805	Infoblox	8.6.2-49947	Sunnyvale	Infoblox ND-V8...	Yes	0	
192.168.1.5	demogm1	vNOS	IB-V825	Infoblox	8.6.2-49947	Santa Clara	Infoblox IB-V82...	Yes	0	
196.16.16.122	unknown	Power Controller		HP				No	0	
196.18.0.252	PA-VM	Firewall	PA-VM	PaloAltoNetworks	11.0.1	isolated environ...	Palo Alto Netw...	No	0	
196.18.200.15	del1_switch	Switch	PowerConnect...	Dell	3.3.3.3		PowerConnect...	No	0	
196.18.200.20	lme-3560-48-g...	Router	WS-C3560X-48...	Cisco	12.2(33)SE2		Cisco IOS Soft...	No	0	
192.168.1.81	gm1p1	vNOS	ND-V805	Infoblox	8.6.2-49947	Santa Clara	Infoblox ND-V8...	Yes	0	
192.168.1.10	demogm1	vNOS	IB-V4025	Infoblox	8.6.2-49947	Santa Clara	Infoblox IB-V40...	Yes	0	
196.18.194.110	PA-3020	Firewall	PA-3020	PaloAltoNetworks	9.1.11-r2	colo	Palo Alto Netw...	No	0	
10.66.100.91	unknown	Router						No	0	
192.168.1.25	demogm3	vNOS	IB-V1425	Infoblox	8.3.8	INFO-SC-rb04	Infoblox IB-V14...	Yes	0	
196.18.200.19	unknown	Router	PowerConnect	Dell	4.7.0.4		PowerConnect	No	0	

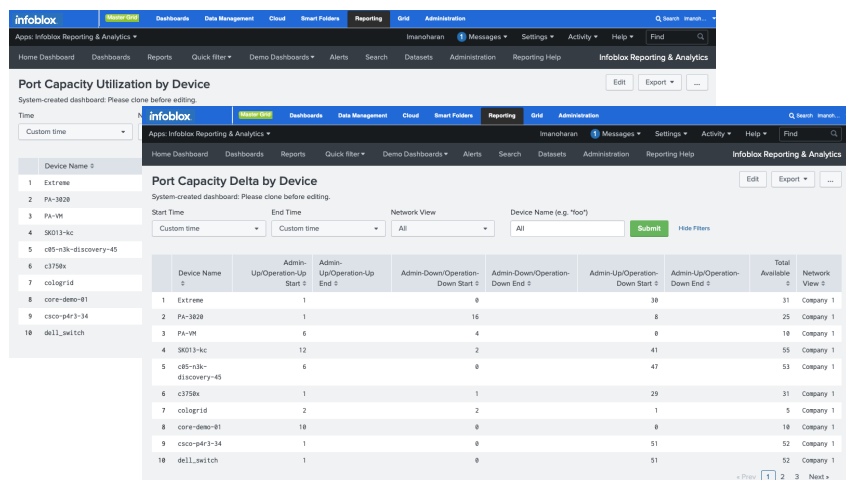
The Device Tab in the DDI interface displays all level-2 and level-3 devices along with all the important parameters. By selecting device, users can drill down to see the interfaces, networks, IP addresses, ports, VLANs, and end hosts associated with it.

## 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



**Port Capacity Utilization by Device**

System-created dashboard: Please clone before editing.

Time: Custom time

Device Name: Extreme, PA-3020, PA-VM, 3K013-kc, c05-r3k-discov-45, c3750k, c05agr1d, core-demo-01, c05-p4p-34, del1\_switch

**Port Capacity Delta by Device**

System-created dashboard: Please clone before editing.

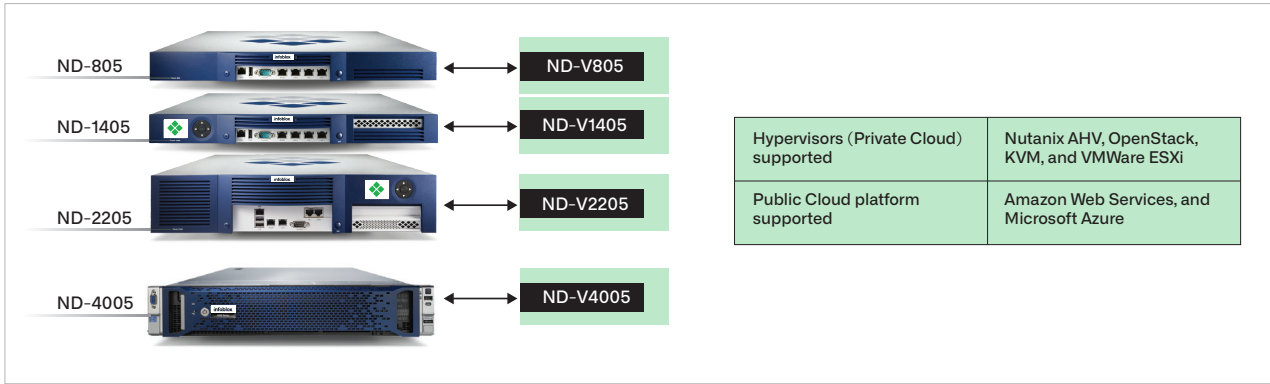
Start Time: Custom time, End Time: Custom time, Network View: All, Device Name (e.g. "foo"): Submit

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 View #
1 Extreme	1		0		30		31	Company 1
2 PA-3020	1		15		8		25	Company 1
3 PA-VM	6		4		8		18	Company 1
4 3K013-kc	12		2		41		55	Company 1
5 c05-r3k-discov-45	6		0		47		53	Company 1
6 c3750k	1		1		29		31	Company 1
7 c05agr1d	2		2		1		5	Company 1
8 core-demo-01	18		0		8		18	Company 1
9 c05-p4p-34	1		0		51		52	Company 1
10 del1_switch	1		0		51		52	Company 1

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.

INFOBLOX NETWORK DATA (ND) APPLIANCES

Network Insight appliances offer a wide range of models that are designed to deliver enhanced performance, capacity, and availability. They provide deployment flexibility as physical or virtual appliances.



FLEXIBLE CONFIGURATION OPTIONS

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.

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