

http://www.surveymonkey.com/sr.aspx?sm=WjD08aUwHCfqOClse7jO...RMPQ5E8NBLtp0fUHgEiIN0\_3d

## PAGE: ABOUT YOU...

### 1. What is your name?

	Response Count
<a href="#">Show replies</a>	18
<b>answered question</b>	<b>18</b>
<b>skipped question</b>	<b>1</b>

### 2. Which site are you responding for?

	Response Count
<a href="#">Show replies</a>	19
<b>answered question</b>	<b>19</b>
<b>skipped question</b>	<b>0</b>

### 3. What is your email address?

	Response Count
<a href="#">Show replies</a>	17
<b>answered question</b>	<b>17</b>
<b>skipped question</b>	<b>2</b>

<b>answered question</b>	<b>18</b>
<b>skipped question</b>	<b>1</b>

#### 4. What is your main role in IP Address Management with respect to your site?

	Response Percent	Response Count
<b>Network support</b>	<b>77.8%</b>	<b>14</b>
<b>Applications support</b>	5.6%	1
<b>User support</b>	0.0%	0
<b>Other (please specify)</b> <a href="#">Hide replies</a>	16.7%	3
1. All the above		Fri, Dec 3, 2010 5:58 AM
2. applications and user support		Wed, Dec 1, 2010 12:49 PM
3. All three, but mainly network support.		Tue, Nov 30, 2010 5:47 AM
	<b>answered question</b>	<b>18</b>
	<b>skipped question</b>	<b>1</b>

#### PAGE: YOUR SITE'S NETWORK CHARACTERISTICS

##### 1. How many IP addresses (both routable/public and RFC1918/private) are in use at your site?

	Response Percent	Response Count
<b>1-100</b>	0.0%	0
<b>100-1,000</b>	5.9%	1
<b>1,000-10,000</b>	<b>47.1%</b>	<b>8</b>
<b>10,000-100,000</b>	41.2%	7
<b>&gt; 100,000</b>	5.9%	1
	<b>answered question</b>	<b>17</b>
	<b>skipped question</b>	<b>2</b>

## 2. How many subnets at your site? (both public and private)

	Response Percent	Response Count
1-10	5.9%	1
10-20	11.8%	2
20-50	5.9%	1
50-100	11.8%	2
100-500	47.1%	8
> 500	17.6%	3
	<b>answered question</b>	<b>17</b>
	<b>skipped question</b>	<b>2</b>

## 3. How many end hosts have wired connections to your network?

	IPv4	IPv6	Response Count
0	0.0% (0)	100.0% (5)	5
1-100	0.0% (0)	100.0% (6)	6
100-1,000	0.0% (0)	100.0% (1)	1
1,000-10,000	91.7% (11)	8.3% (1)	12
10,000-100,000	100.0% (5)	0.0% (0)	5
>100,000	0.0% (0)	0.0% (0)	0
	<b>answered question</b>		<b>17</b>
	<b>skipped question</b>		<b>2</b>

#### 4. How many wireless access points do you have at your site?

	Response Percent	Response Count
1-100	47.1%	8
100-1,000	47.1%	8
1,000-10,000	5.9%	1
10,000-100,000	0.0%	0
>100000	0.0%	0
	<b>answered question</b>	<b>17</b>
	<b>skipped question</b>	<b>2</b>

#### 5. What IP related services do you provide on your Local Area network (LAN)? (Multiple selections)

	Response Percent	Response Count
Do you use BIND as a DNS service?	82.4%	14
Do you use Active Directory as a DNS service?	64.7%	11
Does your site support dynamic DNS?	64.7%	11
Does your site support DNSSEC?	70.6%	12
Do you manage IPv6 addresses in your IPAM?	23.5%	4
Do you have VoIP services?	52.9%	9
Do you use ISC DHCP?	58.8%	10
	<b>answered question</b>	<b>17</b>
	<b>skipped question</b>	<b>2</b>

### 5. What IP related services do you provide on your Local Area network (LAN)? (Multiple selections)

<b>Do you use Microsft AD integrated DHCP?</b>	11.8%	2
<b>Other (please specify)</b> <a href="#">Hide replies</a>	17.6%	3
1. Infoblox	Wed, Dec 1, 2010 4:29 PM	
2. Most users get DHCP from Bluecat Networks Proteus/Adonis	Wed, Dec 1, 2010 11:44 AM	
3. We are moving to Infoblox for DNS, DNSSEC, DHCP, and IPv6	Tue, Nov 30, 2010 7:21 AM	
	<b>answered question</b>	<b>17</b>
	<b>skipped question</b>	<b>2</b>

### 6. How do you use DHCP?

	Response Percent	Response Count
<b>For some end user workstations/laptops</b>	29.4%	5
<b>For most end user workstations/laptops</b>	<b>64.7%</b>	<b>11</b>
<b>For other edge devices (printers, oscilloscopes, PLC etc.)</b>	35.3%	6
<b>For initial client set up</b>	35.3%	6
<b>For initial server set up</b>	17.6%	3
<b>For servers in production</b>	0.0%	0
<b>For VoIP clients</b>	35.3%	6
	<b>answered question</b>	<b>17</b>
	<b>skipped question</b>	<b>2</b>

## 6. How do you use DHCP?

### Other (please specify)

[Hide replies](#)

11.8% 2

1. Authenticated DHCP

Wed, Dec 1, 2010 4:29 PM

2. Use DHCP to assign static IPs based on MAC addresses

Tue, Nov 30, 2010 7:21 AM

**answered question** 17

**skipped question** 2

## 7. How do you or do you plan to support IPv6 address management

	Response Percent	Response Count
stateless auto-configuration (addresses from routers)	0.0%	0
stateful auto-configuration (DHCPv6)	25.0%	4
both	18.8%	3
not sure	<b>56.3%</b>	<b>9</b>
Other (please specify)		2

[Hide replies](#)

1. Planning for stateful auto-configuration

Tue, Nov 30, 2010 5:35 AM

2. Stateful and static

Mon, Nov 29, 2010 7:42 PM

**answered question** 16

**skipped question** 3

### 1. How many people have access to your IP space to add/modify/delete hostnames and IP addresses?

	Response Percent	Response Count
1-5	5.9%	1
5-10	23.5%	4
10-20	<b>29.4%</b>	<b>5</b>
20-100	23.5%	4
>100	17.6%	3
<b>answered question</b>		<b>17</b>
<b>skipped question</b>		<b>2</b>

### 2. How do you primarily manage your IP addresses?

	Response Percent	Response Count
Manually (e.g. spreadsheet)	5.9%	1
In house developed system	<b>52.9%</b>	<b>9</b>
Commercial product	23.5%	4
Open source product	11.8%	2
Other (please specify) <a href="#">Hide replies</a>	5.9%	1

1. Manual for servers, Bradford Networks NAC for Guest, registered or long term wireless subnet

Wed, Dec 1, 2010 9:43 AM

<b>answered question</b>	<b>17</b>
<b>skipped question</b>	<b>2</b>

**PAGE: WHY YOU MOVED (OR WANT TO MOVE) TO AN IP ADDRESS MANAGEMENT**

**(IPAM) SYSTEM**

**1. What requirements drove or will drive the introduction of your IPAM system? (multiple choices)**

	Don't care	Nice to have	Important	Critically important	N/A	Rating Average	Response Count
<b>Previous system was hard to use as the number of entries increased</b>	0.0% (0)	9.1% (1)	27.3% (3)	27.3% (3)	<b>36.4% (4)</b>	3.29	11
<b>Need to delegate roles for distributed management of IP space</b>	0.0% (0)	18.2% (2)	<b>36.4% (4)</b>	9.1% (1)	<b>36.4% (4)</b>	2.86	11
<b>Better management of IP space allocation</b>	0.0% (0)	9.1% (1)	<b>54.5% (6)</b>	27.3% (3)	9.1% (1)	3.20	11
<b>Better auditability of DHCP usage</b>	9.1% (1)	18.2% (2)	<b>45.5% (5)</b>	9.1% (1)	18.2% (2)	2.67	11
<b>IPv6</b>	0.0% (0)	<b>30.0% (3)</b>	<b>30.0% (3)</b>	20.0% (2)	20.0% (2)	2.88	10
<b>Ease of use</b>	0.0% (0)	9.1% (1)	<b>54.5% (6)</b>	36.4% (4)	0.0% (0)	3.27	11
<b>Asset management</b>	0.0% (0)	18.2% (2)	<b>36.4% (4)</b>	18.2% (2)	27.3% (3)	3.00	11
<b>More efficient use of people resources</b>	0.0% (0)	0.0% (0)	<b>45.5% (5)</b>	36.4% (4)	18.2% (2)	3.44	11
<b>Higher management dictated move</b>	9.1% (1)	27.3% (3)	0.0% (0)	9.1% (1)	<b>54.5% (6)</b>	2.20	11
					Other (please specify)		2
					<a href="#">Hide replies</a>		

1. PPPL is a small lab, and IP address management is such a tiny part of the network job that we simply allocate address space ranges to the 20 or so VLANs we manage. In other words,

**answered question 11**  
**skipped question 8**



**1. What requirements drove or will drive the introduction of your IPAM system? (multiple choices)**

VLAN 2 gets 192.55.106.0/24, VLAN 3 gets non routed 172.16.1.0/24, etc....

2. We're pretty much using the same home grown system (shell scripts and makefiles) we have since we first started running DNS at LBL Tue, Nov 30, 2010 4:50 PM

**answered question**      **11**  
**skipped question**      **8**

**2. What Full Time Equivalent (FTE) effort is required for ongoing support (excluding data entry etc.) for your IP Address Management (IPAM) system?**

	Response Percent	Response Count
<b>&lt; 0.1 FTE</b>	18.2%	2
<b>0.1-0.25 FTE</b>	<b>27.3%</b>	<b>3</b>
<b>0.25-0.5 FTE</b>	18.2%	2
<b>0.5-1.0 FTE</b>	0.0%	0
<b>1.0-2.0 FTE</b>	<b>27.3%</b>	<b>3</b>
<b>&gt; 2 FTEs</b>	9.1%	1

**answered question**      **11**  
**skipped question**      **8**

**PAGE: WHAT IS THE NAME OF THE IP ADDRESS MANAGEMENT (IPAM) APPLICATION**

1. What is the name of the application you are using for IPAM? **answered question**      **14**  
**skipped question**      **5**

## 1. What is the name of the application you are using for IPAM?

	<b>Response Count</b>
<a href="#">Hide replies</a>	14
1. N/A	Mon, Dec 6, 2010 12:13 PM
2. Jnet	Fri, Dec 3, 2010 6:09 AM
3. Infoblox	Wed, Dec 1, 2010 4:30 PM
4. php, relational database, ldap based application developed in LANL	Wed, Dec 1, 2010 12:59 PM
5. Bluecat Networks Proteus	Wed, Dec 1, 2010 11:45 AM
6. phpIP	Wed, Dec 1, 2010 10:33 AM
7. Bradford Networks NAC System	Wed, Dec 1, 2010 9:44 AM
8. inhouse hybrid system	Wed, Dec 1, 2010 8:52 AM
9. Integrated Host Warehouse (IHW)	Wed, Dec 1, 2010 7:14 AM
10. shell + make	Tue, Nov 30, 2010 4:51 PM
11. CMU Netreg	Tue, Nov 30, 2010 7:06 AM
12. Infoblox	Tue, Nov 30, 2010 5:36 AM
13. NameSurfer	Mon, Nov 29, 2010 7:45 PM
14. CANDO	Mon, Nov 29, 2010 5:25 PM
<span style="border: 1px solid black; padding: 2px;">25 responses per page</span>	

**answered question**      **14**

**skipped question**      **5**

## 2. What is the URL of your IPAM product?

	<b>Response Count</b>
<b>answered question</b>	<b>8</b>
<b>skipped question</b>	<b>11</b>

## 2. What is the URL of your IPAM product?

[Hide replies](#)

8

- |   |                           |
|---|---------------------------|
| 1. Not available off-site                 | Fri, Dec 3, 2010 6:09 AM  |
| 2. http://www.infoblox.com                | Wed, Dec 1, 2010 4:30 PM  |
| 3. www.bluecatnetworks.com                | Wed, Dec 1, 2010 11:45 AM |
| 4. http://sourceforge.net/projects/phpip/ | Wed, Dec 1, 2010 10:33 AM |
| 5. in house developed                     | Wed, Dec 1, 2010 7:14 AM  |
| 6. http://www.net.cmu.edu/netreg/         | Tue, Nov 30, 2010 7:06 AM |
| 7. http://www.infoblox.com                | Tue, Nov 30, 2010 5:36 AM |
| 8. http://www.nixusoftware.com            | Mon, Nov 29, 2010 7:45 PM |

**answered question** 8

**skipped question** 11

## PAGE: FEATURES OF YOUR SITE'S IP ADDRESS MANAGEMENT (IPAM) SYSTEM

### 1. Does your current IP Address Management (IPAM) provide asset management capabilities?

	Response Percent	Response Count
<b>No</b>	<b>35.3%</b>	<b>6</b>
<b>Partially supported</b>	<b>35.3%</b>	<b>6</b>
<b>Extensively supported</b>	11.8%	2
<b>In concert with another system</b>	11.8%	2
<b>Don't know</b>	0.0%	0
<b>Other (please specify)</b>	5.9%	1

[Hide replies](#)

**answered question** 17

**skipped question** 2

### 1. Does your current IP Address Management (IPAM) provide asset management capabilities?

1. Internally only has department ownership and access controls. We modified to store asset data, but planning transition to dedicated asset application.

Tue, Nov 30, 2010 7:09 AM

answered question 17  
skipped question 2

### 2. Which other systems/databases does your current IP Address Management (IPAM) interface with? (multiple selections)

	Response Percent	Response Count
None	23.5%	4
Your personnel database	29.4%	5
Your property/assets database	47.1%	8
Your data center rack layout database (e.g. Aperture, Rackwise)	0.0%	0
Your purchasing database	5.9%	1
Network monitoring	41.2%	7
Security incident tracking	41.2%	7
Help desk/trouble ticket system	11.8%	2
Other (please specify) <a href="#">Hide replies</a>	11.8%	2

1. CMDB

Mon, Dec 6, 2010 12:14 PM

answered question 17  
skipped question 2

**2. Which other systems/databases does your current IP Address Management (IPAM) interface with? (multiple selections)**

2. Legacy IPAM in house IPAM solution that is being phased out. Wed, Dec 1, 2010 11:47 AM

**answered question**      **17**  
**skipped question**      **2**

**PAGE: USER AUTHENTICATION FOR IP ADDRESS MANAGEMENT (IPAM)**

**1. How is your current IP Address Management (IPAM) login/authentication managed?**

	Response Percent	Response Count
<b>With Active Directory</b>	<b>35.3%</b>	<b>6</b>
<b>With Radius</b>	5.9%	1
<b>With LDAP</b>	5.9%	1
<b>With Kerberos</b>	11.8%	2
<b>With NIS</b>	0.0%	0
<b>Not tied in</b>	23.5%	4
<b>Other (please specify)</b> <a href="#">Hide replies</a>	17.6%	3

1. local auth Mon, Dec 6, 2010 12:14 PM

2. Secure ID (RAS appliance) Wed, Dec 1, 2010 9:44 AM

3. local system Wed, Dec 1, 2010 8:54 AM

**answered question**      **17**  
**skipped question**      **2**

## 2. Can your current IP Address Management (IPAM) delegate authority/control of the IP space for selected subnets to selected users?

	Response Percent	Response Count
<b>No</b>	43.8%	7
<b>Yes</b> <a href="#">Hide replies</a>	<b>56.3%</b>	<b>9</b>
1. Yes		Wed, Dec 1, 2010 4:31 PM
2. Either by an individual user or a non-unix group		Wed, Dec 1, 2010 1:03 PM
3. Proteus has the ability to delegate authority.		Wed, Dec 1, 2010 11:48 AM
4. the software has the ability to have grups, and those groups can be limited as to what address space they have access to.		Wed, Dec 1, 2010 10:33 AM
5. subnet by subnet		Wed, Dec 1, 2010 10:32 AM
6. Yes, it can.		Wed, Dec 1, 2010 9:44 AM
7. We delegate authority/control to divisions.		Wed, Dec 1, 2010 7:15 AM
8. For both definitions of delegate, yes. We delegate add/update/delete control of records within the IPAM to select group/department-level IT admins. Our IPAM also can do DNS zone delegation to other DNS zone masters for which our IPAM is the parent master. We used to do this for a science group, but this was un-delegated several years ago. We also do this for our Active Directory *_ zones, but not the actual AD realm/domain name itself (this cofiguration is supported, gudgingly, in Microsoft documentation).		Tue, Nov 30, 2010 7:15 AM
9. By address range or by zone		Tue, Nov 30, 2010 5:38 AM
	<b>answered question</b>	<b>16</b>
	<b>skipped question</b>	<b>3</b>

## PAGE: IMPLEMENTATION

1. When did you first install your current IP Address Management (IPAM) system?	<b>answered question</b>	<b>15</b>
	<b>skipped question</b>	<b>4</b>

### 1. When did you first install your current IP Address Management (IPAM) system?

	Response Percent	Response Count
< 1 year ago	6.7%	1
1-2 years ago	6.7%	1
2-5 years ago	46.7%	7
5-10 years ago	26.7%	4
> 10 years ago	13.3%	2
	<b>answered question</b>	<b>15</b>
	<b>skipped question</b>	<b>4</b>

### 2. Who implemented your current IP Address Management (IPAM) system?

	Response Percent	Response Count
In house	93.3%	14
External contractors	13.3%	2
As part of a long term maintenance contract	6.7%	1
Other (please specify)	0.0%	0
	<b>answered question</b>	<b>15</b>
	<b>skipped question</b>	<b>4</b>

### 3. How long did it take initially to install and bring your current IPAM system into production?

**answered question** 15  
**skipped question** 4

### 3. How long did it take initially to install and bring your current IPAM system into production?

	Response Percent	Response Count
<1 month	20.0%	3
1 - 3 months	13.3%	2
3 - 6 months	6.7%	1
0.5 - 1 year	<b>40.0%</b>	<b>6</b>
1-2 years	20.0%	3
2-5 years	0.0%	0
> 5 years	0.0%	0
	<b>answered question</b>	<b>15</b>
	<b>skipped question</b>	<b>4</b>

## PAGE: WHAT IS MISSING IN YOUR IPAM SYSTEM

### 1. What feature(s) do you like most about your current IP Address Management (IPAM) system?

	Response Count
<a href="#">Hide replies</a>	13

- lightweight, almost no maintenance required, simple Mon, Dec 6, 2010 12:15 PM
- Automated so users can register new systems and Helpdesk staff approve for placement on subnets/VLANs
  - Automatic port configuration when a device is plugged into the network
  - Physical location tracking of IP addresses/MACs
  - History of registrations and device locationFri, Dec 3, 2010 6:19 AM

25 responses per page

<b>answered question</b>	<b>13</b>
<b>skipped question</b>	<b>6</b>



### 1. What feature(s) do you like most about your current IP Address Management (IPAM) system?

- 
- Yearly property inventory validation
3. ease of use  
dynamic updates to dns  
delegating address space to users or groups  
audit logs  
report capability
- 
4. Integration between DNS and DHCP
- 
5. It is web accessible.
- 
6. gui based
- 
7. Simple.
- 
8. Our IPAM is complete integrated with our DHCP and will be with our DNS soon.
- 
9. Simple to use  
All network engineers are familiar with it.  
Contact and location information are stored in the zone files  
Source control (RCS) allows historical views of zone files  
Resource record sanity checking (nslint)
- 
10. Based on Perl code and MySQL, so can modify with moderate effort.  
Discretionary access control so can allow select department/group IT admins access to add/modify/delete machine records.
- 
11. Ease of use  
  
customized for our environment  
  
integral to our security processes
- 
12. Robust API to tie in to asset and security applications.  
Built-in DNSSEC signing. Anycast support.
- 
13. Ease of use. Tie in to personnel, property copntrol

Wed, Dec 1, 2010 1:13 PM

Wed, Dec 1, 2010 11:49 AM

Wed, Dec 1, 2010 10:34 AM

Wed, Dec 1, 2010 10:32 AM

Wed, Dec 1, 2010 9:44 AM

Wed, Dec 1, 2010 7:19 AM

Tue, Nov 30, 2010 4:55 PM

Tue, Nov 30, 2010 7:24 AM

Tue, Nov 30, 2010 7:03 AM

Tue, Nov 30, 2010 5:45 AM

Mon, Nov 29, 2010 5:28 PM

25 responses per page

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**answered question**      **13**
**skipped question**      **6**

## 2. What do you dislike about your current IP Address Management (IPAM) system?

	<b>Response Count</b>
<a href="#">Hide replies</a>	11
1. inability to do IPv6 well.	Mon, Dec 6, 2010 12:15 PM
2. None	Fri, Dec 3, 2010 6:19 AM
3. none	Wed, Dec 1, 2010 1:13 PM
4. no ipv6 support at this time  The iptimal solution is infoblox, but for our envrionment I would have to purchase 7-8 of them.	Wed, Dec 1, 2010 10:34 AM
5. not very flexible	Wed, Dec 1, 2010 10:32 AM
6. Error prone.	Wed, Dec 1, 2010 9:44 AM
7. The web interface is a little slower than I would like.	Wed, Dec 1, 2010 7:19 AM
8. Doesn't handle DNSSEC IPv6 changes are cumbersome Bulk changes are difficult to make	Tue, Nov 30, 2010 4:55 PM
9. Not easy to patch for security.	Tue, Nov 30, 2010 7:24 AM
10. AD integration for central authentication is difficult to implement. High availability features (failover) sometimes fail without notice.	Tue, Nov 30, 2010 5:45 AM
11. Lack of delegation	Mon, Nov 29, 2010 5:28 PM
<span style="border: 1px solid black; padding: 2px;">25 responses per page</span>	

<b>answered question</b>	<b>11</b>
<b>skipped question</b>	<b>8</b>

## 3. What feature(s) do you wish your IP Address Management (IPAM) system supported?

	<b>Response</b>
<b>answered question</b>	<b>13</b>
<b>skipped question</b>	<b>6</b>

### 3. What feature(s) do you wish your IP Address Management (IPAM) system supported?

Count

[Hide replies](#)

13

1. IPv6 block and subnet allocation Mon, Dec 6, 2010 12:15 PM

2. - Automatic and manual quarantine of hosts (development work in progress and should be complete by March 2011)  
 - IPv6 Support  
 - Delegation of address space management by subnet to select users (currently done via administrative policy/procedure) Fri, Dec 3, 2010 6:19 AM

3. ipv6  
 bulk updates  
 if-map support  
 snmp support Wed, Dec 1, 2010 1:13 PM

4. SNMP v3 arp harvesting Wed, Dec 1, 2010 11:49 AM

5. ipv6 support. Wed, Dec 1, 2010 10:34 AM  
 I would love to go with the Infoblox product, but the costs will not allow me to. This is because of the number I would need. We have 4 remote offices, and I would really need to have one at each office:  
 - Remote offices 4  
 - Main campus- primary - 1  
 - South Campus - backup - 1  
 - DMZ - 1

So I would be looking at 7 units. There are a number of advantages these units provide, but two that have become important to us are:

- history of addresses as they have been handed out, saving the mac address
- DNSEC built in for key and signature generation.

6. ipv6 Wed, Dec 1, 2010 10:32 AM

7. Error checking. Wed, Dec 1, 2010 9:44 AM

8. Hmm. Not sure Wed, Dec 1, 2010 7:19 AM

25 responses per page

answered question **13**

skipped question **6**

**3. What feature(s) do you wish your IP Address Management (IPAM) system supported?**

- 
- |   |                           |
|---|---------------------------|
| <b>9.</b> DNSSEC<br>Integrated contact and location management<br>Integration with cyber security's needs   | Tue, Nov 30, 2010 4:55 PM |
| <b>10.</b> Support for IPv6 records storage, IPv6 DNS RR zone generation, and DHCPv6 config generation. This is also limited by dependency on MySQL, which does not have a 128-bit integer field. Planning to split IPv6 address into two BIGINT UNSIGNED, one for subnet, and one for machine address. | Tue, Nov 30, 2010 7:24 AM |
| <b>11.</b> we will need IPv6 at some point  | Tue, Nov 30, 2010 7:03 AM |
| <b>12.</b> AD/LDAP integration needs an overhaul.   | Tue, Nov 30, 2010 5:45 AM |
| <b>13.</b> IPv6   | Mon, Nov 29, 2010 5:28 PM |

[25 responses per page](#)

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**answered question**      **13****skipped question**      **6**