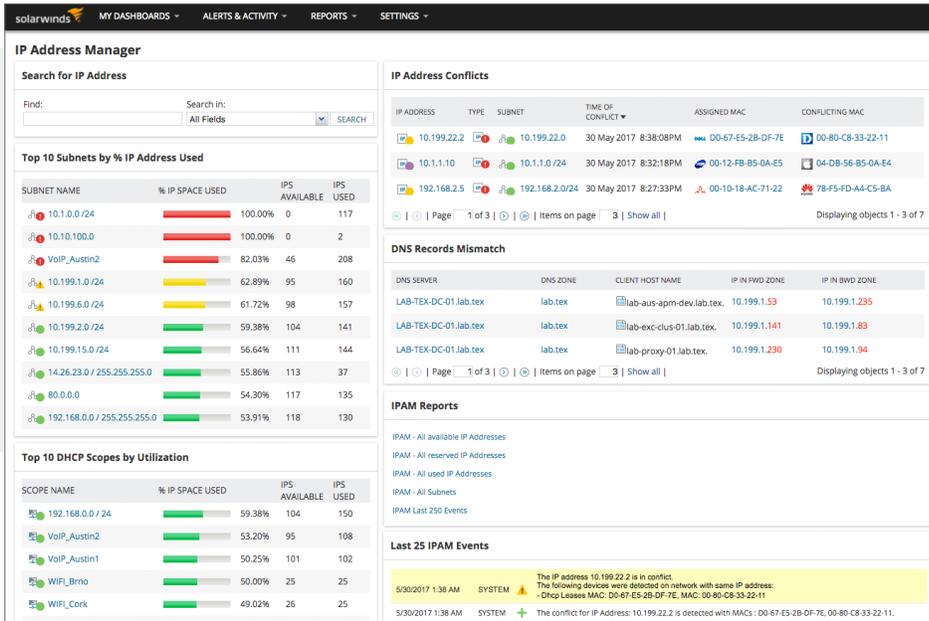


# SolarWinds® IP Address Manager

## Simplify DHCP, DNS, and IP Address Management



The screenshot displays the SolarWinds IP Address Manager interface with several key sections:

- Search for IP Address:** A search bar with a dropdown menu set to 'All Fields' and a 'SEARCH' button.
- Top 10 Subnets by % IP Address Used:** A table with columns for Subnet Name, % IP Space Used, IPs Available, and IPs Used.
 

Subnet Name	% IP Space Used	IPs Available	IPs Used
10.1.0.0/24	100.00%	0	117
10.10.100.0	100.00%	0	2
VoIP_Austin2	82.03%	46	208
10.199.1.0/24	62.89%	95	160
10.199.6.0/24	61.72%	98	157
10.199.2.0/24	59.38%	104	141
10.199.15.0/24	56.64%	111	144
14.26.23.0/255.255.255.0	55.86%	113	37
80.0.0.0	54.30%	117	135
192.168.0.0/255.255.255.0	53.91%	118	130
- IP Address Conflicts:** A table listing IP addresses, their types, subnets, assigned MACs, and conflicting MACs.
 

IP Address	Type	Subnet	Time of Conflict	Assigned MAC	Conflicting MAC
10.199.22.2	Static	10.199.22.0	30 May 2017 8:38:08PM	00-67-E5-2B-DF-7E	00-80-C8-33-22-11
10.1.1.10	Static	10.1.1.0/24	30 May 2017 8:32:18PM	00-12-FB-B5-0A-E5	04-DB-56-B5-0A-E4
192.168.2.5	Static	192.168.2.0/24	30 May 2017 8:27:33PM	00-10-18-AC-71-22	78-F5-FD-A4-C5-8A
- DNS Records Mismatch:** A table comparing DNS server records with IP ranges in forward and reverse zones.
 

DNS Server	DNS Zone	Client Host Name	IP in FWD Zone	IP in BWD Zone
LAB-TEX-DC-01.lab.tex	lab.tex	lab-aus-apm-dev.lab.tex	10.199.1.53	10.199.1.235
LAB-TEX-DC-01.lab.tex	lab.tex	lab-exc-clus-01.lab.tex	10.199.1.141	10.199.1.83
LAB-TEX-DC-01.lab.tex	lab.tex	lab-proxy-01.lab.tex	10.199.1.230	10.199.1.94
- IPAM Reports:** A list of reports including 'All available IP Addresses', 'All reserved IP Addresses', 'All used IP Addresses', 'All Subnets', and 'IPAM Last 250 Events'.
- Last 25 IPAM Events:** A log of recent events, such as IP conflicts and system messages.
 

Time	System	Event Description
5/30/2017 1:38 AM	SYSTEM	The IP address 10.199.22.2 is in conflict. The following devices were detected on network with same IP address: DHCP Leases MAC: D0-67-E5-2B-DF-7E; MAC: 00-80-C8-33-22-11
5/30/2017 1:38 AM	SYSTEM	The conflict for IP Address: 10.199.22.2 is detected with MACs: D0-67-E5-2B-DF-7E; 00-80-C8-33-22-11.

Networks are getting bigger and more complex, driven by the need for greater performance, BYOD, server virtualization, cloud migration, and smart devices. Meeting these challenges begins with managing your inventory of IP addresses and vital DHCP and DNS resources. SolarWinds® IP Address Manager (IPAM) provides you with centralized IP address management that works hand in hand with unified DHCP and DNS administration. This means that teams can quickly find available addresses and easily configure them on virtually any DHCP and DNS system. IPAM also alerts you in advance of serious problems like address conflicts, poor performing DHCP/DNS servers, or full DHCP scopes.

### IP ADDRESS MANAGER AT A GLANCE

- » Capable of preventing IP conflicts with powerful IPv4 and IPv6 address management
- » Save time provisioning or reclaiming IP addresses with seamless DHCP and DNS integration
- » Avoid problems by monitoring and receiving alerts on critical IP events
- » Delegate IP administration to network and system admins using role-based access
- » API support provides two-way integration with third-party software
- » Integrates with SolarWinds Network Performance Monitor (NPM) and Server & Application Monitor (SAM)

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## FEATURES

### IPv4 and IPv6 Address Management

IPAM actively identifies and manages IPv4 and IPv6 addresses and uses active scanning to discover and track subnets and associated address blocks. Finding an available address is as simple as navigating to a target subnet, viewing, and selecting an available IP address. Also, view transient IP addresses to easily identify orphaned IP addresses and reclaim them.

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### Integrated DHCP and DNS Configuration Management

IPAM works with your multi-vendor DHCP and DNS services—no additional proprietary software or hardware is required for management. You can easily unify and manage all of your Microsoft®, Cisco®, and ISC open source DHCP servers as well as your BIND and Microsoft DNS Servers. All DHCP and DNS changes you make in IPAM are seamlessly propagated to the respective servers, enabling teams to easily find and configure IP addresses from a single management console.

### Monitoring and Alerting

IPAM automatically and proactively detects IP address problems that can eventually lead to network disruption. You can continuously monitor and improve IP performance with proactive detection of IP address problems, notification of IP address changes in the network, and access to utilization data on essential metrics for planning. Active monitoring and alerting helps eliminate network downtime due to IP conflicts and non-availability of IP addresses due to full subnets.

### Role-based Administration

IPAM lets you independently manage your DHCP, DNS, and IP subnets. Work independently of other admin teams with IPAM, allowing each team to manage their own subnets, address blocks, and DHCP and DNS services without impacting each other. Role-based administration helps maintain security without limiting delegation of IP address management activities.

### IP Conflict Detection Resource

Quickly tend to IP conflict issues and help avert network downtime. IPAM alerts you every time there is an IP conflict on the network. Integration with SolarWinds User Device Tracker (optional) lays out detailed device and switch port information that aids in troubleshooting. Historical data on IP address usage reveals which device had the IP first. Using the remote shutdown option, you can immediately cut off network connectivity of the problematic device.

## Integrated End-Point Tracking

IPAM integrates with UDT to provide a single view of IP addresses and corresponding end-point connection/ location details. This enables improved troubleshooting and enhanced network access protection with port shutdown. Monitor suspicious activity in the network and track down rogue devices that are a threat to your network. When both IPAM and UDT are installed, IPAM displays corresponding switch port details and user information—all within the same integrated view. This lets you quickly track down and resolve network issues before they cause a major problem.

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## Global IP Address Search

IPAM tracks down a specific IP address on your network in just seconds by performing a global search. You can quickly and easily access IP address data to search for available IPs and meet IP requests.

## Subnet Allocation Wizard

You can specify supernet and subnet sizes so IPAM can automatically allocate the correctly-sized subnet. Subnet Allocation Wizard helps you efficiently organize your managed IP address space into subnets that are sized appropriately for the extent and traffic of your network. With its real-time subnet calculator, the IPAM Subnet Allocation Wizard allows you to quickly determine the most efficient way to subdivide any supernet.

## Microsoft Active Directory Integration

Leverage your existing Microsoft Active Directory® user accounts to allow users to log in to SolarWinds IPAM. You save time on configuring and creating separate logins for IPAM.

## Automated IPv4 Subnet Discovery

SolarWinds IPAM helps you create an up-to date IP address map of your network by directly pulling data from router configurations and connected machines. The Automatic Subnet Discovery uses SNMP credentials for polling devices and discovers subnets from the routing table of the router.

## Automated IP Address Scanning

IPAM allows you to easily set up scheduled, automatic scanning for both your IPv4 and IPv6 address space. Reduce manual errors and help ensure that your network's IP address information is always up to date. Scheduled IP address scanning also helps you avoid IP address conflicts by recognizing transient IP status.

## DHCP Split Scope Functionality

IPAM gives you quick and easy DHCP split scope configuration for high availability and load balancing of your critical DHCP services. IPAM allows you to quickly configure your DHCP split scope with a simple two-step wizard. Additionally, the centralized web console offers visibility into related scopes and scope distribution across subnets.

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## Advanced DHCP Configuration Options

IPAM allows you to directly configure standard DHCP options for your multi-vendor DHCP servers without having to log in to the DHCP server or deal with complicated CLI commands. The changes are automatically synced to the respective server, which saves you a lot of time on configuration and troubleshooting issues caused by human errors. IPAM offers DHCP configuration support for remote-boot devices.

## DNS Record Mismatch Detection, A & PTR Record Pairing

IPAM automatically detects and points out any mismatch in DNS forward and reverse record entries. Any disparity in the record is highlighted for easy identification so that it can be quickly fixed. Additionally, you can automatically create DNS PTR records when registering new devices into DNS zones. This helps ensure that there are no DNS record mismatches and eliminates the possibility of DNS issues due to human error.

## Detailed Event Recording

IPAM automatically records all IP-related events and keeps a detailed activity log showing what changed and when for quick and easy troubleshooting. You can greatly reduce troubleshooting time by using these detailed activity logs to retrace events leading up to IP conflicts and other IP related issues.

## API Support

IPAM offers API support with CRUD (create, read, update, delete) operations to provide two-way integration with third-party software. With CRUD operations, you will be able to automate the creation, modification, and deletion of IP records. Additionally, you can create new subnets in IPAM and create/update/remove DNS entries through the API.

## Customizable Dashboard

IPAM provides a customizable dashboard that delivers the essential information you need in a unified, at-a-glance view for streamlined management and quick troubleshooting. IPAM's customizable dashboard includes resources like Top 10 data, recent events, IP conflict monitor, and so on. The IPAM dashboard also integrates with other SolarWinds management products including Network Performance Monitor, Server & Application Monitor, Network Configuration Manager, and more.

## SYSTEM REQUIREMENTS

HARDWARE	MINIMUM REQUIREMENTS
CPU	IP1000 – 2.0GHz (Dual Core Recommended) IP4000 – 2.4GHz (Dual Core Recommended) IP16000 or IPX – 3.0GHz (Dual Core Recommended)
Memory	IP1000 – 3GB IP4000 – 4GB P16000 or IPX – 4GB
Hard Drive	IP1000 – 2GB IP4000 – 5GB IP16000 or IPX – 20GB
SOFTWARE	MINIMUM REQUIREMENTS
OS	Windows Server® 2003 or 2008, 2012 including R2, with IIS in 32-bit mode. IIS™ must be installed, and Windows® 2012. SolarWinds recommends that Orion® administrators have local administrator privileges to help ensure full functionality of local Orion tools. Accounts limited to use of the IPAM Web console do not require administrator privileges. Note: SolarWinds does not support production installations of Orion products on Windows XP, Windows Vista®, or Windows 7 systems.
.NET Framework	Version 3.5 or later (.NET 4.0 recommended)
SNMP Trap Services	Windows operating system management and monitoring tools component
Database	SQL Server® 2005 SP1 Express, Standard, Enterprise SQL Server 2008 Express, Standard, Enterprise, SQL Server 2008 R2 or Microsoft SQL Server 2012
Web Console Browser	Microsoft Internet Explorer® version 6 or higher with Active scripting Firefox® 3.0 or higher (Toolset Integration is not supported on Firefox)

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**NOTE:** A RAID 1 drive for server operating system, Orion Platform installation, and tempdb files is recommended. The Orion installer needs 1GB on the drive where temporary Windows system or user variables are stored. Per Windows standards, some common files may need to be installed on the same drive as your server operating system. For more information, see *Working with Temporary Directories in the SolarWinds Orion Common Components Administrator Guide*.

The minimum server requirements listed assume default configuration. Significantly increasing the poll rate or statistic collection rate could result in additional load on the server, which may require a larger CPU or additional memory.

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SolarWinds provides powerful and affordable IT management software to customers worldwide, from Fortune 500® enterprises to small businesses, managed service providers (MSPs), government agencies, and educational institutions. We are committed to focusing exclusively on IT, MSP, and DevOps professionals, and strive to eliminate the complexity that our customers have been forced to accept from traditional enterprise software vendors. Regardless of where the IT asset or user sits, SolarWinds delivers products that are easy to find, buy, use, maintain, and scale while providing the power to address key areas of the infrastructure from on-premises to the cloud. This focus and commitment to excellence in end-to-end hybrid IT performance management has established SolarWinds as the worldwide leader in both network management software and MSP solutions, and is driving similar growth across the full spectrum of IT management software. Our solutions are rooted in our deep connection to our user base, which interacts in our **THWACK®** online community to solve problems, share technology and best practices, and directly participate in our product development process. Learn more today at [www.solarwinds.com](http://www.solarwinds.com).

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