

# How to Import IP Addresses & Subnets to SolarWinds® IP Address Manager

# How to Import IP Addresses & Subnets to SolarWinds IP Address Manager

[SolarWinds IP Address Manager](#) (IPAM) simplifies the process of importing all your IP addresses and subnets. With IPAM's easy-to-use **Import Wizard**, you can now upload all your IP addresses and subnets from Excel or .csv spreadsheets. The wizard walks you through a series of steps and provides the functionality to manage the spreadsheet data that gets uploaded.

IPAM allows you to select which data you want to import and how to map the imported content. The wizard will help you understand the import process so you can import all your IP addresses and subnets for centralized IP address management.

## Importing IP Addresses and Subnets

Open the Import Wizard. Click **Manage Subnets & IP Addresses >> Network View >> Import >> Import Spreadsheet**.



*Opening Import Wizard in SolarWinds IPAM*

### Step 1: Prepare to Import a Spreadsheet

SolarWinds IPAM includes Excel spreadsheet templates to have your IP addresses and subnets formatted to a standard pattern that makes the importing process easier. You can download these templates and convert your existing spreadsheets with IP addresses and subnets into this form for the import. Once this is done, click **Next**.

Note: Using the IPAM-recommended spreadsheet template is not mandatory. You can also import your own spreadsheet, but using the template is recommended to make the process simpler and faster.

Manage Subnets & IP Addresses

### Preparing to import a spreadsheet

Import spreadsheet introduction page

Before importing your spreadsheet, you should know that:

- Import may overwrite existing subnets of the same address space.
- Only a .csv, .xls or .xlsx file can be imported
- If your .xls or .xlsx file has multiple worksheets, the header rows must be identical for each worksheet

Don't show this again

1	2	3	4	5
IP Address	MAC Address	System Name	Description	Status
10.199.1.0	00-05-1E-02-154B			Reserved
10.199.1.1	00-00-29-99-1B-61	Tex-2651	Cisco	Used
10.199.1.2	00-19-AA-80-3C-C0			Res
10.199.1.3				Available
10.199.1.4	00-00-BD-84-AB-C8			Used

[Download an example spreadsheet with IP addresses](#)

1	2	3	4	5
Parent - Display Name	Parent - Address	Parent - CIDR	Type	Display Name
10.199.0.0 /16	10.199.0.0	16	Subnet	10.199.1.0 /24
10.199.0.0 /16	10.199.0.0	16	Subnet	10.199.2.0 /24
10.199.0.0 /16	10.199.0.0	16	Subnet	10.199.3.0 /24
10.199.0.0 /16	10.199.0.0	16	Subnet	10.199.4.0 /24
10.199.0.0 /16	10.199.0.0	16	Subnet	10.199.5.0 /24
10.199.0.0 /16	10.199.0.0	16	Subnet	10.199.6.0 /24
10.199.0.0 /16	10.199.0.0	16	Subnet	10.199.7.0 /24
10.199.0.0 /16	10.199.0.0	16	Subnet	10.199.8.0 /24

[Download an example spreadsheet with Subnets](#)

*Import spreadsheet templates available in SolarWinds IPAM*

### Step 2: Select the spreadsheet from your system

You can select the spreadsheet (.xls or .xlsx, or .csv) from your system for the import.

While getting your spreadsheet ready for the import make sure you insert a column header row that doesn't contain any duplicate or blank values. Once this is done, click **Next**.

### Select a spreadsheet

Import existing IP addresses and their details by uploading a spreadsheet in Excel or CSV text files.

A column header row is required and must not contain duplicate or blank values. Click Help for more information on importing spreadsheets.

**Warning:** Import may overwrite existing subnets of the same address space.

#### Spreadsheet File

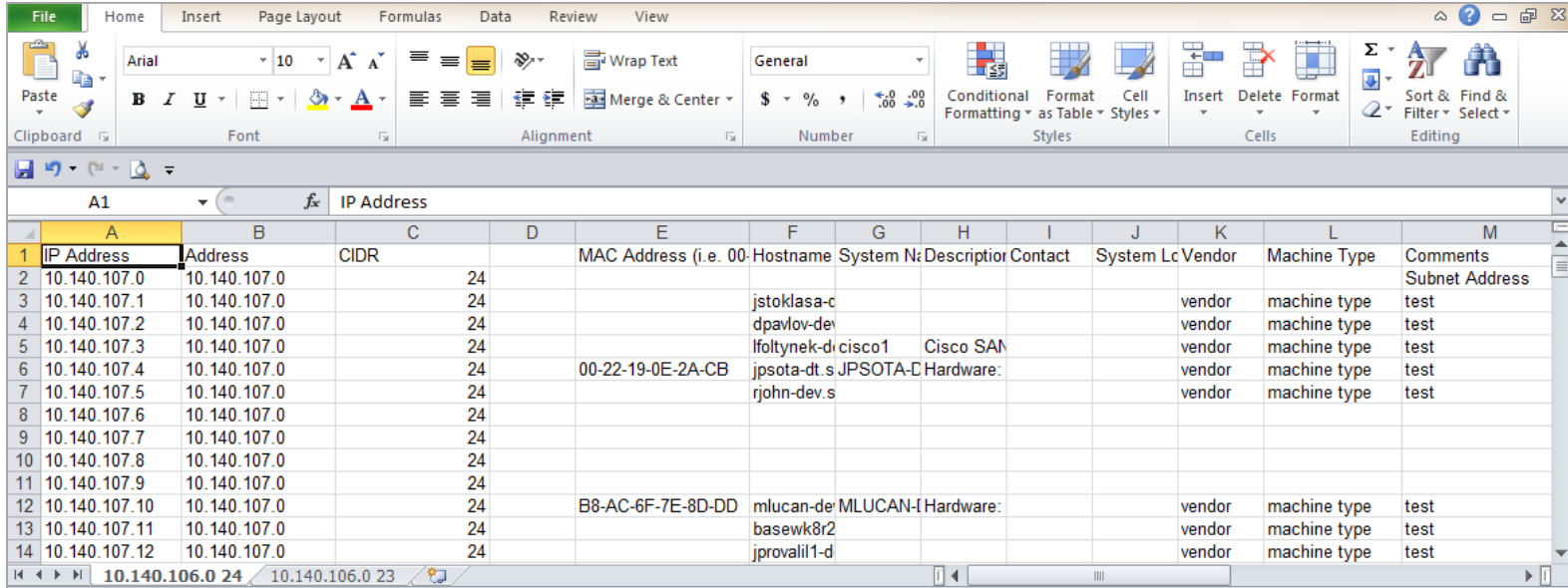
File to Upload:

This file includes:  IP Addresses  Groups/Supernets/Subnets

*Importing Spreadsheet in SolarWinds IPAM*

**Note:** The import might overwrite existing subnets of the same address space.

SolarWinds IPAM allows you to import spreadsheets with multiple worksheets. Each worksheet can denote a specific subnet and contain the IP address allocation for that subnet.



1	IP Address	Address	CIDR	MAC Address (i.e. 00-	Hostname	System Name	Description	Contact	System Location	Vendor	Machine Type	Comments
2	10.140.107.0	10.140.107.0	24									Subnet Address
3	10.140.107.1	10.140.107.0	24		jstoklasa-c					vendor	machine type	test
4	10.140.107.2	10.140.107.0	24		dpavlov-dev					vendor	machine type	test
5	10.140.107.3	10.140.107.0	24		lfolynek-d	cisco1	Cisco SAN			vendor	machine type	test
6	10.140.107.4	10.140.107.0	24	00-22-19-0E-2A-CB	jpsota-dt.s	JPSOTA-D	Hardware:			vendor	machine type	test
7	10.140.107.5	10.140.107.0	24		rjohn-dev.s					vendor	machine type	test
8	10.140.107.6	10.140.107.0	24									
9	10.140.107.7	10.140.107.0	24									
10	10.140.107.8	10.140.107.0	24									
11	10.140.107.9	10.140.107.0	24									
12	10.140.107.10	10.140.107.0	24	B8-AC-6F-7E-8D-DD	mlucan-de	MLUCAN-I	Hardware:			vendor	machine type	test
13	10.140.107.11	10.140.107.0	24		basewk8r2					vendor	machine type	test
14	10.140.107.12	10.140.107.0	24		jprovalil1-d					vendor	machine type	test

Sample spreadsheet with multiple worksheets for importing into SolarWinds IPAM

You can import IP addresses and subnets into IPAM to:

- Add more IP addresses to an existing subnet.
- Replace/overwrite the existing subnet with new IP address data.
- Create new subnets by importing subnet and IP address data into IPAM.

### Step 3: Match IP Address & Subnet Columns

SolarWinds IPAM allows you to choose the appropriate column from your spreadsheet for each IPAM option.

You may have different column header names in your spreadsheet if you are not using the IPAM-recommended template. IPAM enables you to map those fields from your spreadsheet with the default data fields that are required for the import.

IPAM gives you two options for subnet columns:

- Automatically create subnet hierarchy based on information provided.
- Place new subnets in the Imported Subnet/Supernet/Group folder so you can organize them after import.

When you click **Next**, IPAM validates the data before proceeding to the next step.

Manage Subnets & IP Addresses

**IP Address column matching**

Choose the appropriate column from your spreadsheet for each IPAM option.

**Required IP information**

IP Address

**Optional**

Dual Stack IPv6 Address

MAC Address (i.e. 00-19-AA-80-3C-0C)

Hostname

DHCP Client Name

System Name (i.e. Router05)

Description

Contact

System Location

System Object ID

Vendor

Machine Type

Last Boot Time

Last Synchronization

Response Time

Status (i.e. Available, Used)

Comments

Type

Alias

Skip Scan

*IP Address Column Matching in SolarWinds IPAM*

Manage Subnets & IP Addresses

### Subnet Column matching

Choose the appropriate column from your spreadsheet for each IPAM option.

**Required IP information**

No subnet information is required. IP addresses can be manually assigned to subnets after import.

**Optional**

Subnet Address/CIDR (i.e. 10.10.1.0 /24)	[Do not import]
Subnet Address (i.e. 10.10.1.0)	Address
Subnet CIDR (i.e. 24)	CIDR
Subnet Mask (i.e. 255.255.255.0)	[Do not import]
Subnet Display Name (i.e. 3rd floor)	[Do not import]
Group Description	[Do not import]
VLAN	[Do not import]
Location	[Do not import]

IPAM will automatically create subnet hierarchy based on information provided.  
 Put new subnets in Imported Subnet/Supernet/Group folder so I can organize them after import.

*Subnet Column Matching in SolarWinds IPAM*

**Step 4: Select Custom Fields**

If the imported spreadsheet columns contain custom fields, determine which fields you would like to have imported by clicking **Add Custom field**.

Manage Subnets & IP Addresses

### Custom fields

Your spreadsheet contains additional columns, which will be imported as custom text fields.

Custom fields in IPAM	Field from your spreadsheet	Action
Custom_1	Custom_1	
	Lease Expiration	Add Custom Field
	Custom_2	Add Custom Field

This opens the **Add Custom Field window** where you can enter the details for the custom field. Once this is done, click **Next**.

**Add custom field**

Admin > IPAM Settings >

### Add Custom Field

Database Column:

Description:

Field Type:  ▼  
[What does Field Type mean?](#)

Link Title:

Max string length:

Add to groups, supernets, subnets, DHCP servers, scopes and DNS servers, zones

Add to IP addresses

Save Cancel

*Adding and importing custom fields*

### Step 5: Confirm Import

IPAM presents all the import information in one snapshot summary before proceeding with the import so you can ensure all the information is correct. If you have any changes to make, you can go back and make the changes accordingly (repeat the steps in order from where you are making changes). Once this is done, click **Import**.

Now you'll get an Import Summary with the status of the import and how many rows were imported.

Manage Subnets & IP Addresses

### Import Summary

Your spreadsheet has been successfully imported into IPAM.

- 256 row(s) imported
- Parent subnets were assigned to root folder

*Import summary in SolarWinds IPAM*

All the IP addresses and subnets will now be available in the **Manage Subnets & IP Addresses** tab, and you can start managing them using IPAM's centralized Web console.

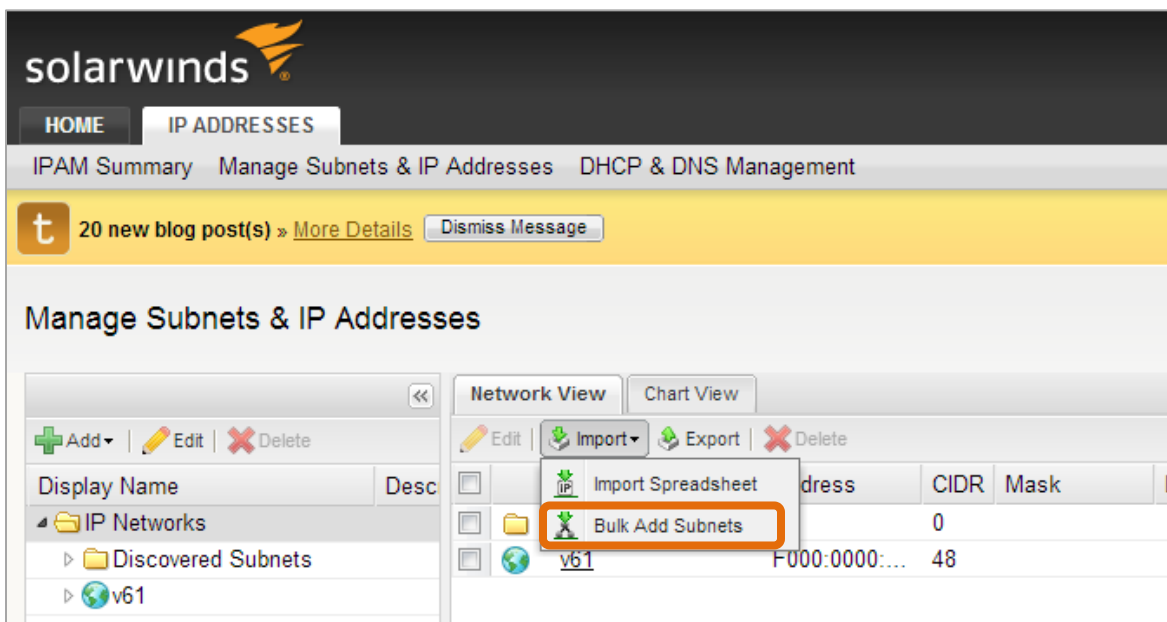
### Spreadsheet Import Information:

- SolarWinds IPAM allows you to determine where the IP address information is imported to.
- The imported data can be distributed in existing IP addresses across the subnet tree.
- New subnets can automatically be created upon import.
- You can import IPv4 & IPv6 Groups, Supernet & IPv6 Global prefixes, including subnet tree hierarchy.
- Imported data will respect user delegation permissions.
- The name of the worksheet can have the name of the subnet/CIDR.

### Import IP Addresses and Subnets in Bulk

SolarWinds IPAM allows you to import IP addresses and subnets in bulk by typing or copying them on a text field.

Open the **Bulk Add Subnets** page. Click **Manage Subnets & IP Addresses >> Network View >> Import >> Bulk Add Subnets**.



*Bulk adding subnets in SolarWinds IPAM*

This opens the **Bulk Add Subnets** page where you can insert subnet/CIDR prefixes. Click **Parse and Show Results Below**. Confirm success message and then click **Next**.



Manage Subnets & IP Addresses

### Bulk Add Subnets

Insert Subnet/CIDR prefixes in the box below and click Parse And Show Results Below  
For example: 208.128.0.0/24

**IP Address Allocation Space**

```
10.140.107.0 /24
10.140.106.0 /23
```

**PARSE AND SHOW RESULTS BELOW**      Only subnets which do not overlap with existing subnets are listed.

1 subnet(s) parsed successfully.

<input type="checkbox"/>	Subnet Start	Subnet End	CIDR	Subnet Mask
<input checked="" type="checkbox"/>	10.140.106.0	10.140.107.255	23	255.255.254.0

**NEXT**      CANCEL

*Bulk adding subnets in SolarWinds IPAM*

Now you have the option of moving the new subnets into the smallest appropriate supernet.

- You can enter the Subnet Properties.
- You can disable the Automatic Subnet Scanning and edit some settings.

Click **Done** to bulk add all the parsed subnets.

### Bulk Add Subnets

**Subnet Settings**

**1 Selected Subnets**

- 10.140.106.0/23

Move new subnets into the smallest appropriate supernet

**Subnet Properties**

Description:   
*eg.: Roll-out note, allocation purpose, expected use date*

VLAN ID:

Location:

**Automatic Scanning**

Disable Automatic Scanning

Update but not erase manually entered data

Scan Interval:  Minutes

*Moving new subnets into the smallest appropriate supernet*

## Why SolarWinds IP Address Manager?

### Eliminate Complexity, Improve Reliability, Save Time & Money!

- Centralized DHCP management for Microsoft® DHCP services, [monitoring for Microsoft DNS](#), ISC DHCP and BIND DNS services, and Cisco® DHCP servers.
- Intuitive Web interface for simple, single-click management and [IP address planning](#).
- Automatic subnet discovery and IP address scanning for the most accurate real-time discovery and verification.
- Easily search addresses for history, op status, MAC, device type, DHCP, DNS properties and more.
- Preventative alerting to ensure that subnets and DHCP scopes don't fill up.
- Role-based access control and detailed event recording to track who made what change
- Supports IPv4 and IPv6 networks.
- Alert notifications to help prevent your subnets & DHCP scopes from filling up.
- Automatically discover used and unused IP addresses.
- Typically deploys in less than an hour.

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

- Getting Started with IP Address Manager:** Includes buttons for 'Add Subnets & IP Addresses', 'Add DHCP Server', and 'Add DNS Server'.
- Top 10 Subnets with Transient Addresses:** A table showing subnet names, IP space usage percentages, and available/used IP counts.
- DNS Records Mismatch:** A table listing DNS servers, zones, client hostnames, and IP ranges.
- Top 10 DHCP Scopes by Utilization with Split Scopes:** A table showing scope names, related scopes, and utilization percentages.
- IPAM Reports:** A list of reports such as 'All available IP addresses' and 'All reserved IP addresses'.
- Top 10 Subnets by % IP Address Used:** A table showing subnets with the highest percentage of IP address usage.
- VoIP Subnets by % IP Address Used:** A table showing subnets used for VoIP services.
- Last 25 IPAM Events:** A log of recent events, including subnet changes and credential additions.
- Top 10 DHCP Scopes by Utilization:** A table showing the most utilized DHCP scopes.

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SolarWinds IP Address Manager

SolarWinds (NYSE: SWI) provides powerful and affordable IT management software to customers worldwide - from Fortune 500 enterprises to small businesses. The company works to put its users first and remove the obstacles that have become “status quo” in traditional enterprise software. SolarWinds products are downloadable, easy to use and maintain, and provide the power, scale, and flexibility needed to address users’ management priorities. SolarWinds online user community, [thwack](#) is a gathering-place where tens of thousands of IT pros solve problems, share technology, and participate in product development for all of the company’s products. Learn more today at <http://solarwinds.com>.



For additional information, please contact SolarWinds at 866.530.8100 or e-mail [sales@solarwinds.com](mailto:sales@solarwinds.com).

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