



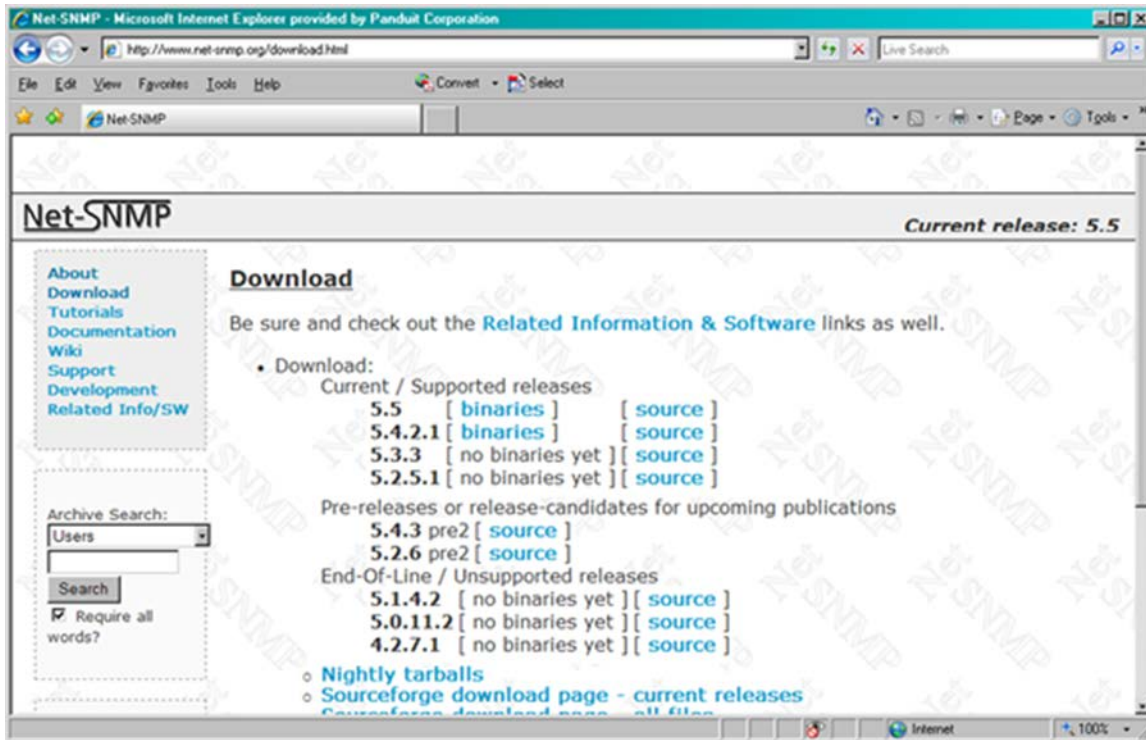
Create an snmpwalk File for a Switch or Router

Applies to:	<ul style="list-style-type: none">• snmpwalk file• Switch• Router
Objective:	This Technical Reference describes the procedure to create an snmpwalk file for a network device (switch or router). This snmpwalk file can then be sent to Panduit Support to analyze the data to determine the level of expected functionality in SmartZone.
Pre-Requisites:	You must have snmpwalk software to create an snmpwalk file for a switch or router. To obtain the proper software, download it from the Internet.

Performing the Procedure

To Download snmpwalk Software from the Internet

The snmpwalk software is available for free download at www.net-snmp.org. Be sure to download the most recent version of the **binary file**.



Once the file has been downloaded, follow the standard installation instructions to install the software on your server.

TO CREATE THE SNMPWALK FILE:

To create the snmpwalk file, you must know:

1. The IP Address of the switch or router
2. The SNMP Read Community String

With these two pieces of information, enter the following command:

```
Snmwalk -v2c -ObenU -M . -c [SNMP READ COMMUNITY][IP ADDRESS] 1.3 > [TEXT FILE]
```

For example, if:

1. IP Address = 10.10.10.110

2. SNMP Read Community String = public

Then:

```
snmpwalk -v2c -ObenU -M . -c public 10.10.10.110 1.3 > File.txt
```

After the command has run, you should see a message like “No more variables left in this MIB View” at the end of the output file (which was called “File.txt” in the sample above). **Example 1** below shows an excerpt from a typical snmpwalk output file.

If there are ports assigned to a VLAN other than the default VLAN, use this command for each VLAN:

```
Snmpwalk -v2c -ObenU -M . -c [SNMP READ COMMUNITY@i][IP ADDRESS]  
1.3.6.1.2.1.17 > outputfile@i.txt
```

Where “i” is the VLAN number.

For example, if:

1. IP Address = 10.10.10.110
2. SNMP Read Community String = public
3. VLAN number = 3

Then:

```
snmpwalk -v2c -ObenU -M . -c public@3 10.10.10.110 1.3.6.1.2.1.17 >  
File@3.txt
```

Note: Before attempting to create an snmpwalk file for a switch, you must have at least one endpoint connected.

Example 2 shows an excerpt from a typical output file from this command.

Example 1: Typical output from an snmpwalk output file.

Example 2: Output from an snmpwalk output file if there are ports assigned to a VLAN other

```
.1.3.6.1.2.1.1.1.0 = STRING: "Cisco Internetwork Operating System Software
IOS (tm) s72033_rp Software (s72033_rp-IPSERVICES_WAN-M), Version
12.2(18)SXF10, RELEASE SOFTWARE (fc1)

Technical Support: http://www.cisco.com/techsupport

Copyright (c) 1986-2007 by cisco Systems, Inc.

Co"
.1.3.6.1.2.1.1.2.0 = OID: .1.3.6.1.4.1.9.1.283
.1.3.6.1.2.1.1.3.0 = Timeticks: (888148482) 102 days, 19:04:44.82
.1.3.6.1.2.1.1.4.0 = ""
.1.3.6.1.2.1.1.5.0 = STRING: "Cisco_6509E"
.1.3.6.1.2.1.1.6.0 = ""
.1.3.6.1.2.1.1.7.0 = INTEGER: 78
.1.3.6.1.2.1.1.8.0 = Timeticks: (0) 0:00:00.00
.1.3.6.1.2.1.2.1.0 = INTEGER: 79
.1.3.6.1.2.1.2.2.1.1.1 = INTEGER: 1
.1.3.6.1.2.1.2.2.1.1.2 = INTEGER: 2
.1.3.6.1.2.1.2.2.1.1.3 = INTEGER: 3
.1.3.6.1.2.1.2.2.1.1.4 = INTEGER: 4
```

*pages deleted for brevity -
the actual file will be longer*

```
.1.3.6.1.6.3.13.1.3.1.5.33.116.114.97.112.104.111.115.116.46.112.117.98.10
8.105.99.46.49.57.50.46.49.54.56.46.48.46.49.52.53.46.49.54.50.1.2.840.100
36 = INTEGER: 1
.1.3.6.1.6.3.13.1.3.1.5.33.116.114.97.112.104.111.115.116.46.112.117.98.10
8.105.99.46.49.57.50.46.49.54.56.46.48.46.49.52.53.46.49.54.50.1.3.6.1 =
INTEGER: 1
.1.3.6.1.6.3.13.1.3.1.5.33.116.114.97.112.104.111.115.116.46.112.117.98.10
8.105.99.46.49.57.50.46.49.54.56.46.48.46.49.52.54.46.49.54.50.1.2.840.100
36 = INTEGER: 1
.1.3.6.1.6.3.13.1.3.1.5.33.116.114.97.112.104.111.115.116.46.112.117.98.10
8.105.99.46.49.57.50.46.49.54.56.46.48.46.49.52.54.46.49.54.50.1.3.6.1 =
INTEGER: 1
.1.3.6.1.6.3.13.1.3.1.5.33.116.114.97.112.104.111.115.116.46.112.117.98.10
8.105.99.46.49.57.50.46.49.54.56.46.48.46.49.52.54.46.49.54.50.1.3.6.1 =
No more variables left in this MIB View (MIB
tree)
```

**This message marks the end
of the .txt file.**

than the default VLAN.

```
.1.3.6.1.2.1.17.1.1.0 = Hex-STRING: 00 1E 79 D8 BC 00
.1.3.6.1.2.1.17.1.2.0 = INTEGER: 7
.1.3.6.1.2.1.17.1.3.0 = INTEGER: 2
.1.3.6.1.2.1.17.1.4.1.3.257 = OID: .0.0
.1.3.6.1.2.1.17.1.4.1.3.258 = OID: .0.0
.1.3.6.1.2.1.17.1.4.1.3.260 = OID: .0.0
.1.3.6.1.2.1.17.1.4.1.3.261 = OID: .0.0
.1.3.6.1.2.1.17.1.4.1.3.266 = OID: .0.0
.1.3.6.1.2.1.17.1.4.1.3.513 = OID: .0.0
.1.3.6.1.2.1.17.1.4.1.3.1665 = OID: .0.0
.1.3.6.1.2.1.17.1.4.1.4.257 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.4.258 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.4.260 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.4.261 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.4.266 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.4.513 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.4.1665 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.5.257 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.5.258 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.5.260 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.5.261 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.5.266 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.5.513 = Counter32: 0
.1.3.6.1.2.1.17.1.4.1.5.1665 = Counter32: 0
.1.3.6.1.2.1.17.2.1.0 = INTEGER: 1
.1.3.6.1.2.1.17.2.2.0 = INTEGER: 32771
.1.3.6.1.2.1.17.2.3.0 = Timeticks: (62565400) 7 days, 5:47:34.00
.1.3.6.1.2.1.17.2.4.0 = Counter32: 2993
```

*pages deleted for brevity -
the actual file will be longer*

```
.1.3.6.1.2.1.17.5.1.1.4.0.0.12.7.172.1.0 = INTEGER: 4
.1.3.6.1.2.1.17.5.1.1.4.0.30.121.216.188.0.0 = INTEGER: 4
.1.3.6.1.2.1.17.5.1.1.4.51.51.0.0.0.1.0 = INTEGER: 4
.1.3.6.1.2.1.17.5.1.1.4.51.51.0.0.0.13.0 = INTEGER: 4
.1.3.6.1.2.1.17.5.1.1.4.51.51.0.0.0.22.0 = INTEGER: 4
```

**NOTE: There is no message indicating
the end of the .txt file**

TO SEND THE SNMPWALK FILE TO PANDUIT SUPPORT:

The output file generated by the snmpwalk command must be sent to Panduit Technical Support for analysis. To send the output file to Panduit, follow these steps:

1. Compress the output file using winzip.exe or another similar program. This will reduce the size of the file that needs to be sent.
2. Email the compressed .zip file to:
systemsupport@panduit.com
3. Panduit requires 5 business days to analyze the output. A response will be returned to you via email providing analysis and recommendations regarding your device and its compatibility with Panduit's PIM Software. The report will look like the sample provided in Example 3 below:

Example 3: Panduit SNMPWALK File Analysis.

Service Name	Status	Description
System	Available	System information available
Interface Info	Available	Interface information available
Address Map	Available	ARP table for MAC-to-IP address mapping information available
Address Alias	Available	IP aliases information available
Subnets	Available	Subnet information available
Routes	Available	IP Routing information available
Version	Available	Hardware, Software version information available
VLAN	Available	VLAN Data information available
Port To MAC	Available	Port to MAC information available
Chassis	Available	Chassis Data information available
Trunk	Available	Trunk information available
WAP	Available	WAP Clients information available
System	Unavailable, Service not Supported	System data not supported and will not be displayed to the User
Interface Info	Unavailable, Service not Supported	Interface data not supported and will not be displayed to the User

Service Name	Status	Description
Address Map	Unavailable, Service not Supported	ARP table for MAC-to-IP address data not supported
Address Alias	Unavailable, Service not Supported	IP aliases data not supported
Subnets	Unavailable, Service not Supported	Subnet data not supported
Routes	Unavailable, Service not Supported	IP Routing data not supported
Version	Unavailable, Service not Supported	Hardware, Software version data not supported and will not be displayed to the User
VLAN	Unavailable, Service not Supported	VLAN data not supported and will not be displayed to the User
Port To MAC	Unavailable, Service not Supported	Port to MAC data not supported and will not be displayed to the User
Chassis	Unavailable, Service not Supported	Chassis data not supported and will not be displayed to the User
Trunk	Unavailable, Service not Supported	Trunk information data not supported and will not be displayed to the User
WAP	Unavailable, Service not Supported	WAP Clients data not supported and will not be displayed to the User