

WATCHD<>>C

HOW TO?

Capturing walks with SNMPWalker



DOXENSE Print, breathe !

47, avenue de Flandre - 59290 Wasqhehal - France
65, rue de la Tombe Issoire - 75014 Paris - France

T +33 (0)3 62 21 14 00
www.doxense.com

Table of contents

Capture Walks with SNMPWalker	4
Principle	4
Procedure	5
Access SNMP Walker	5
Use SNMPWalker	5

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47, avenue de Flandre
59290 Wasquehal - FRANCE
contact@doxense.com

Tel : +33(0)3.62.21.14.00
Fax : +33(0)3.62.21.14.01
www.doxense.com

Capture Walks with SNMPWalker

Principle

SNMP Walk is a command that allows to collect, thanks to the **SNMP**¹ protocol, data about a device installed on a specific network:

```

walk_20190520_093913.txt - Bloc-notes
Fichier Edition Format Affichage Aide
system.sysDescr.0 [str] "3070M"
system.sysObjectID.0 [objectOID] ".3.1.112.1.1"
system.sysUpTime.0 [timeticks] 01/01/0001 00:00:09
system.sysContact.0 [str] (empty)
system.sysName.0 [str] "3070M"
system.sysLocation.0 [str] "Lille/AILE 2"
system.sysServices.0 [integer] 72
# skipping interface stats...
host.hrStorage.hrMemorySize.0 [integer] 4194304
host.hrStorage.hrStorageTable.1.1.1 [integer] 3
host.hrStorage.hrStorageTable.1.hrStorageType.1 [objectOID] host.hrStorage.hrStorageTypes.hrStorageRam
host.hrStorage.hrStorageTable.1.hrStorageDescr.1 [str] "Allocated memory for Printer"
host.hrStorage.hrStorageTable.1.hrStorageAllocationUnits.1 [integer] 1024
host.hrStorage.hrStorageTable.1.hrStorageSize.1 [integer] 4096
host.hrStorage.hrStorageTable.1.hrStorageUsed.1 [integer] 4096
host.hrStorage.hrStorageTable.1.7.1 [counter32] 0
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.1 [integer] 1
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.3 [integer] 3
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.4 [integer] 4
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.5 [integer] 5
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.6 [integer] 6
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.7 [integer] 7
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.8 [integer] 8
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.9 [integer] 9
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.21 [integer] 21
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.23 [integer] 23
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.81 [integer] 81
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.86 [integer] 86
host.hrDevice.hrDeviceTable.1.hrDeviceIndex.87 [integer] 87
host.hrDevice.hrDeviceTable.1.hrDeviceType.1 [objectOID] host.hrDevice.hrDeviceTypes.hrDevicePrinter
host.hrDevice.hrDeviceTable.1.hrDeviceType.3 [objectOID] host.hrDevice.hrDeviceTypes.hrDeviceNetwork
host.hrDevice.hrDeviceTable.1.hrDeviceType.4 [objectOID]
host.hrDevice.hrDeviceTable.1.hrDeviceType.5 [objectOID] es.hrDeviceOther
host.hrDevice.hrDeviceTable.1.hrDeviceType.6 [objectOID]
host.hrDevice.hrDeviceTable.1.hrDeviceType.7 [objectOID]
host.hrDevice.hrDeviceTable.1.hrDeviceType.8 [objectOID] es.hrDeviceDiskStorage
host.hrDevice.hrDeviceTable.1.hrDeviceType.9 [objectOID]
host.hrDevice.hrDeviceTable.1.hrDeviceType.21 [objectOID]
host.hrDevice.hrDeviceTable.1.hrDeviceType.23 [objectOID]
host.hrDevice.hrDeviceTable.1.hrDeviceType.81 [objectOID] pes.hrDeviceOther
host.hrDevice.hrDeviceTable.1.hrDeviceType.86 [objectOID] pes.hrDeviceOther
host.hrDevice.hrDeviceTable.1.hrDeviceType.87 [objectOID] pes.hrDeviceOther
host.hrDevice.hrDeviceTable.1.hrDeviceDescr.1 [str] "3070M"
host.hrDevice.hrDeviceTable.1.hrDeviceDescr.3 [str] "Ethernet port"

```

The analysis of the collected data allows:

- to report the status of a device;
- to study new devices models;
- to report the internal counters of the device;
- to check the condition of the consumables (paper trays, cartridges, etc.);

Walks are valuable for monitoring Watchdoc malfunctions of the device. They are sometimes requested for troubleshooting by the Doxense Support team.

To perform an SNMP walk capture, you have the SNMPWalker tool provided by default in the Watchdoc installation folder.

This tool, which creates a point capture of the device's SNMP tree, can be used at regular intervals, before or after a printout, to allow a comparative study of the different data in the device.

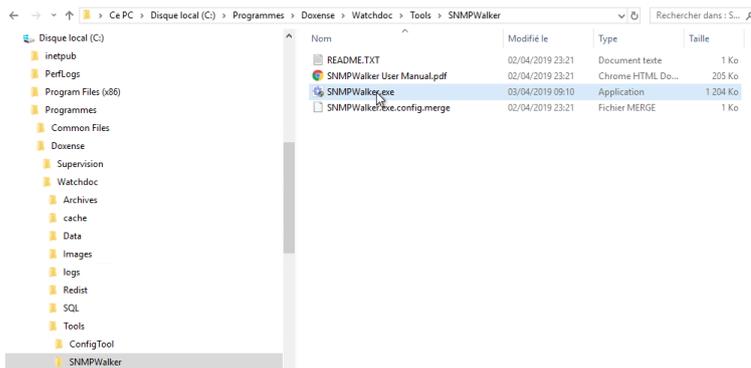
¹ Simple Network Management Protocol (SNMP) is an Internet-standard protocol for collecting and organising information about managed devices on IP networks and for modifying that information to change device behaviour. Devices that typically support SNMP include routers, switches, servers, workstations, printers, modem racks and more. SNMP is widely used in network management for network monitoring. SNMP exposes management data in the form of variables on the managed systems organised in a management information base which describes the system status and configuration.

Procedure

Access SNMP Walker

To access the **SNMPWalker** tool:

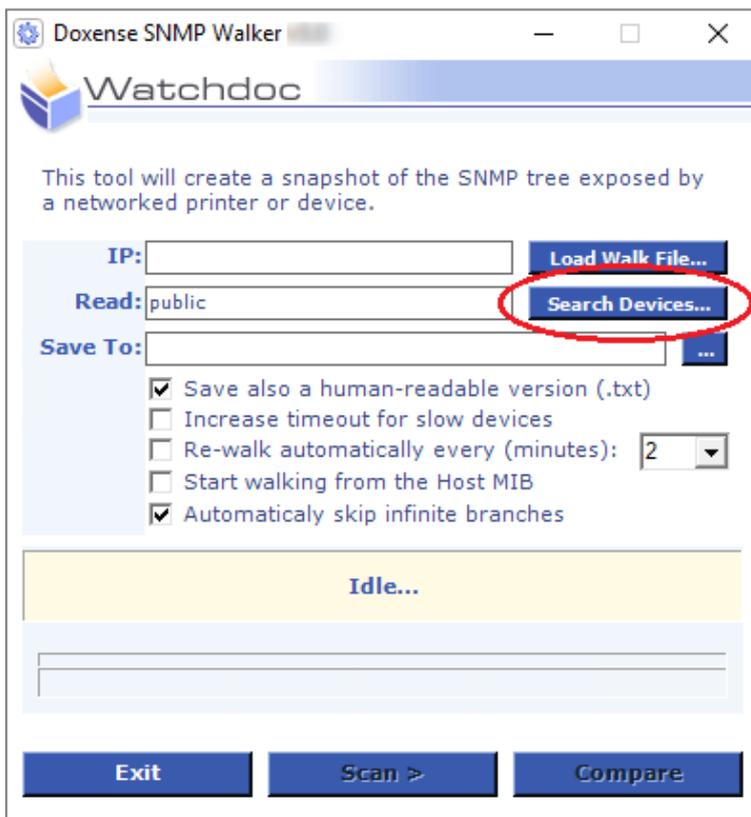
1. access the Watchdoc server and log on as an administrator;
2. thanks to a explorer, access the folder SNMPWalker, saved by default in C:/Programmes/Doxense/Watchdoc/Tools/;
3. in the folder **SNMPWalker** is the executable SNMPWalker.exe:



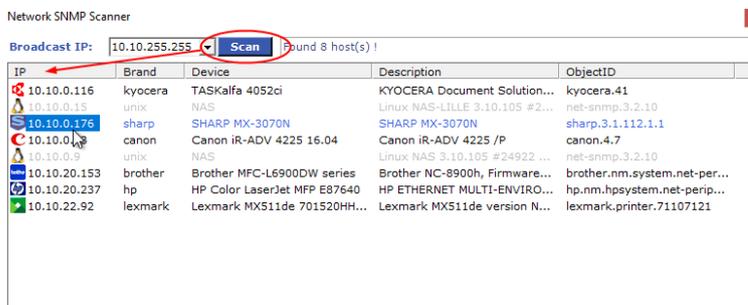
Use SNMPWalker

To obtain an SNMP walk:

1. click on the **SNMPWalker.exe** executable;
2. in the Doxense SNMP Walker tool, click on the **Search Devices** button;



- in the **Network SNMP Scanner** tool, select the network I.P. to browse, then click on the **Scan** button:
- then, in the list of detected devices, double-click on the I.P. of the device you want to study the data;



- from the **Doxense SNMPWalker** interface, where the device to analyse is selected, click on the **Scan** button to launch the analysis:



- A cursor indicates the analysis progress. At the end of the operation, a message indicates the file where the analysis is saved. By default, this file is saved in **\\Doxense\Watchdoc\Tools\SNMPWalker** and has the analysed device's name:

7. In the **SNMPWalker** folder, open the files **walk[...].txt** and **walk[...].bin** to read the analysis and/or sent it to the Doxense Support team:

