Inventory Database Schema 7.5 Part 5 - Network Devices

**Inventory Database Schema Part 5**

Part 5 covers Network Device data. Whether you need to create a custom report, or a custom computer filter based on Inventory Data in Inventory Solution 7.5, knowing the database schema is important. In Inventory Solution 7.5 the data structure for inventory follows closely with previous schemas in the 7.x version family. This document is meant to help understand not only the dependencies between the hardware tables, but provide information on the columns and their purpose

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# Introduction

Documenting database schema is not an easy task. SQL can provide a table-column view of all selected tables, but this does not provide any specific details on what the column might actually mean. While Inventory 7.5 adheres to the CIM (Common Information Model), Inventory for Network Devices (aka Agentless Inventory) does not make significant changes to the way the data was stored in the previous version and does not adhere to the CIM.

*NOTE: The data structure represented in this document may change, though at the time of publication this is believed to be the accurate information for the release of Inventory Solution for Network Devices 7.5.*

# Database Schema

The schema for Network Devices contains a flat table structure. There are no interdependencies between the tables beyond the data being linked to the specific Network Device Resource. A common data element provided in this document is the MIB information used to capture the associated data. This can be very useful information if you need to test a specific SysObject ID against a device. The following MIB information is provided:

* File – The MIB file that contains the information for the SysObject ID call.
* OID String – This contains information for what the data string is for the associated SysObject ID.
* Object ID – This is the actual SysObject ID used within the SNMP call to fetch the associated data.

Note the following when reviewing the grids:

1. Display Name represents how the column will be labeled when working within the Symantec Management Console, including reports, Resource Manager details, Pickers, etc.
2. Not all values have descriptions, but the label of the table and column should provide data on what’s stored therein.
3. Qualifiers per Column/Value are provided based on applicability.
4. The MIB details are linked by Field Name, located in a separate grid subsequent to the primary one.

For help in navigating through the data classes, use the following guide:

* SNMP Host Devices
* SNMP Host Resources
* SNMP Win32 Services
* SNMP Win32 Shares
* SNMP Win32 Print Queues
* SNMP Software
* SNMP Storage
* SNMP Physical Entities
* SNMP HP Printer
* SNMP Printer Cover
* SNMP Printer Input Tray
* SNMP Printer Output Tray
* SNMP Printer Supply
* NETWARE data classes:
  + SNMP NW Adapters
  + SNMP NW Disk Storage
  + SNMP NW NLM
  + SNMP NW Partitions
  + SNMP NW Printers
  + SNMP NW Server
  + SNMP NW Settings
  + SNMP NW Settings Descriptions
  + SNMP NW Volume

# Standard Data Classes

## Inv\_SNMP\_Host­\_Devices

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Index** | int | Key | TRUE |
| Description | A unique value for each device contained by the host.  The value for each device must remain constant at least from one re-initialization of the agent to the next re-initialization. |
| **Description** | string(255) | Description | A textual description of this device, including the device’s manufacturer and revision, and optionally, its serial number. |
| **Product ID** | string(255) | Description | The product ID for this device. |
| **Status** | string(255) | Description | The current operational state of the device described by this row of the table. A value unknown(1) indicates that the current state of the device is unknown. running(2) indicates that the device is up and running and that no unusual error conditions are known. The warning(3) state indicates that agent has been informed of an unusual error condition by the operational software(e.g., a disk device driver) but that the device Is still ''operational''. An example would be high number of soft errors on a disk. A value of testing(4), indicates that the device is not available for use because it is in the testing state. The state of down(5) is used only when the agent has been informed that the device is not available for any use. |
| Enums | unknown(1), running(2), warning(3), testing(4), down(5) |
| **Errors** | int | Description | The number of errors detected on this device. It should be noted that as this object has a SYNTAX of Counter, that it does not have a defined initial value. However, it is recommended that this object be initialized to zero. |

**MIB Information by Field Name:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **MIB** | | |
| **File** | **OID String** | **Object ID** |
| **Index** | HOST-RESOURCES-MIB | iso.org.dod.internet.mgmt.mib-2.host.hrDevice.hrDeviceTable.hrDeviceEntry.hrDeviceIndex | 1.3.6.1.2.1.25.3.2.1.1 |
| **Description** | HOST-RESOURCES-MIB | iso.org.dod.internet.mgmt.mib-2.host.hrDevice.hrDeviceTable.hrDeviceEntry.hrDeviceDescr | 1.3.6.1.2.1.25.3.2.1.3 |
| **Product ID** | HOST-RESOURCES-MIB | iso.org.dod.internet.mgmt.mib-2.host.hrDevice.hrDeviceTable.hrDeviceEntry.hrDeviceID | 1.3.6.1.2.1.25.3.2.1.4 |
| **Status** | HOST-RESOURCES-MIB | iso.org.dod.internet.mgmt.mib-2.host.hrDevice.hrDeviceTable.hrDeviceEntry.hrDeviceStatus | 1.3.6.1.2.1.25.3.2.1.5 |
| **Errors** | HOST-RESOURCES-MIB | iso.org.dod.internet.mgmt.mib-2.host.hrDevice.hrDeviceTable.hrDeviceEntry.hrDeviceErrors | 1.3.6.1.2.1.25.3.2.1.6 |

## Inv\_SNMP\_Host­\_Resources

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Up Time** | string(128) | Description | The amount of time since this host was last initialized. Note that this is different from sysUpTime in MIB-II [3] because sysUpTime is the uptime of the network management portion of the system. |
| **System Date** | dateTime | Description | The host's notion of the local date and time of day. |
| **Number of Users** | int | Description | The number of user sessions for which this host is storing state information. A session is a collection of processes requiring a single act of user authentication and possibly subject to collective job control. |
| **Number of Processes** | int | Description | The number of process contexts currently loaded or running on this system. |
| **Memory Size** | int | Description | The amount of physical main memory contained by the host. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Up Time** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrSystem.hrSystemUptime | 1.3.6.1.2.1.25.1.1 |
| **System Date** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrSystem.hrSystemDate | 1.3.6.1.2.1.25.1.2 |
| **Number of Users** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrSystem.hrSystemNumUsers | 1.3.6.1.2.1.25.1.5 |
| **Number of Processes** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrSystem.hrSystemProcesses | 1.3.6.1.2.1.25.1.6 |
| **Memory Size** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrStorage.hrMemorySize | 1.3.6.1.2.1.25.2.2 |

## Inv\_SNMP\_Win32\_Services

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Service Name** | string(255) | Key | TRUE |
| Description | The name of the network service described by this entry. |
| **Installed State** | string(255) | Description | The installation status of the network service specified by this entry. |
| Enums | uninstalled(1), install-pending(2), uninstall-pending(3), installed(4) |
| **Operating State** | string(255) | Description | The operating status of the network service specified by this entry. |
| Enums | active(1), continue-pending(2), pause-pending(3), paused(4) |
| **Can Be Uninstalled** | string(255) | Description | Whether or not the network service specified by this entry can be uninstalled. |
| Enums | cannot-be-uninstalled(1), can-be-uninstalled(2) |
| **Can Be Paused** | string(255) | Description | Whether or not the network service specified by this entry can be paused. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Service Name** | LanMgr-Mib-II-MIB | | iso.org.dod.internet.private.enterprises.lanmanager.lanmgr-2.server.svSvcTable.svSvcEntry.svSvcName | 1.3.6.1.4.1.77.1.2.3.1.1 |
| **Installed State** | LanMgr-Mib-II-MIB | | iso.org.dod.internet.private.enterprises.lanmanager.lanmgr-2.server.svSvcTable.svSvcEntry.svSvcInstalledState | 1.3.6.1.4.1.77.1.2.3.1.2 |
| **Operating State** | LanMgr-Mib-II-MIB | | iso.org.dod.internet.private.enterprises.lanmanager.lanmgr-2.server.svSvcTable.svSvcEntry.svSvcOperatingState | 1.3.6.1.4.1.77.1.2.3.1.3 |
| **Can Be Uninstalled** | LanMgr-Mib-II-MIB | | iso.org.dod.internet.private.enterprises.lanmanager.lanmgr-2.server.svSvcTable.svSvcEntry.svSvcCanBeUninstalled | 1.3.6.1.4.1.77.1.2.3.1.4 |
| **Can Be Paused** | LanMgr-Mib-II-MIB | | iso.org.dod.internet.private.enterprises.lanmanager.lanmgr-2.server.svSvcTable.svSvcEntry.svSvcCanBePaused | 1.3.6.1.4.1.77.1.2.3.1.5 |

## Inv\_SNMP\_Win32\_Shares

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Name** | string(255) | Key | TRUE |
| Description | The name of the share. |
| **Path** | string(255) | Description | The local name of this shared resource. |
| **Comment** | string(255) | Description | A comment associated with this share. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Name** | LanMgr-Mib-II-MIB | | iso.org.dod.internet.private.enterprises.lanmanager.lanmgr-2.server.svShareTable.svShareEntry.svShareName | 1.3.6.1.4.1.77.1.2.27.1.1 |
| **Path** | LanMgr-Mib-II-MIB | | iso.org.dod.internet.private.enterprises.lanmanager.lanmgr-2.server.svShareTable.svShareEntry.svSharePath | 1.3.6.1.4.1.77.1.2.27.1.2 |
| **Comment** | LanMgr-Mib-II-MIB | | iso.org.dod.internet.private.enterprises.lanmanager.lanmgr-2.server.svShareTable.svShareEntry.svShareComment | 1.3.6.1.4.1.77.1.2.27.1.3 |

## Inv\_SNMP\_Win32\_Print\_Queues

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Name** | string(255) | Key | TRUE |
| Description | The name of the print queue. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Name** | LanMgr-Mib-II-MIB | | iso.org.dod.internet.private.enterprises.lanmanager.lanmgr-2.server.svPrintQTable.svPrintQEntry.svPrintQName | 1.3.6.1.4.1.77.1.2.29.1.1 |

## Inv\_SNMP\_Software

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Index** | int | Key | TRUE |
| Description | A unique value for each piece of software installed on the host. This value shall be in the range from 1 to the number of pieces of software installed on the host. |
| **Name** | string(255) | Description | A textual description of this installed piece of software, including the manufacturer, revision, the name by which it is commonly known, and optionally, its serial number. |
| **ID** | string(255) | Description | The product ID of this installed piece of software. |
| **Type** | string(255) | Description | The type of this software. |
| Enums | unknown(1), operatingSystem(2), deviceDriver(3), application(4) |
| **Date** | dateTime | Description | The last-modification date of this application as it would appear in a directory listing. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Index** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrSWInstalled.hrSWInstalledTable.hrSWInstalledEntry.hrSWInstalledIndex | 1.3.6.1.2.1.25.6.3.1.1 |
| **Name** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrSWInstalled.hrSWInstalledTable.hrSWInstalledEntry.hrSWInstalledName | 1.3.6.1.2.1.25.6.3.1.2 |
| **ID** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrSWInstalled.hrSWInstalledTable.hrSWInstalledEntry.hrSWInstalledID | 1.3.6.1.2.1.25.6.3.1.3 |
| **Type** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrSWInstalled.hrSWInstalledTable.hrSWInstalledEntry.hrSWInstalledType | 1.3.6.1.2.1.25.6.3.1.4 |
| **Date** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrSWInstalled.hrSWInstalledTable.hrSWInstalledEntry.hrSWInstalledDate | 1.3.6.1.2.1.25.6.3.1.5 |

## Inv\_SNMP\_Storage

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Index** | int | Key | TRUE |
| Description | A unique value for each logical storage area contained by the host. |
| **Description** | string(255) | Description | A description of the type and instance of the storage described by this entry. |
| **Alloc Units** | int | Description | The size, in bytes, of the data objects allocated from this pool. If this entry is monitoring sectors, blocks, buffers, or packets, for example, this number will commonly be greater than one. Otherwise this number will typically be one. |
| Units | Bytes |
| **Size** | int | Description | The size of the storage represented by this entry, in units of hrStorageAllocationUnits. |
| **Used** | int | Description | The amount of the storage represented by this entry that is allocated, in units of hrStorageAllocationUnits. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Index** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrStorage.hrStorageTable.hrStorageEntry.hrStorageIndex | 1.3.6.1.2.1.25.2.3.1.1 |
| **Description** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrStorage.hrStorageTable.hrStorageEntry.hrStorageDescr | 1.3.6.1.2.1.25.2.3.1.3 |
| **Alloc Units** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrStorage.hrStorageTable.hrStorageEntry.hrStorageAllocationUnits | 1.3.6.1.2.1.25.2.3.1.4 |
| **Size** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrStorage.hrStorageTable.hrStorageEntry.hrStorageSize | 1.3.6.1.2.1.25.2.3.1.5 |
| **Used** | HOST-RESOURCES-MIB | | iso.org.dod.internet.mgmt.mib-2.host.hrStorage.hrStorageTable.hrStorageEntry.hrStorageUsed | 1.3.6.1.2.1.25.2.3.1.6 |

## Inv\_SNMP\_Physical\_Entities

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Class** | string(255) | Description | An indication of the general hardware type of the physical entity.An agent should set this object to the standard enumeration value which most accurately indicates the general class of the physical entity, or the primary class if there is more than one. If no appropriate standard registration identifier exists for this physical entity, then the value ''other(1)'' is returned. If the value is unknown by this agent, then the value ''unknown(2)'' is returned. |
| Enums | other(1), unknown(2), chassis(3), backplane(4), container(5), powerSupply(6), fan(7), sensor(8), module(9), port(10), stack(11) |
| **IsFRU** | string(255) | Description | This object indicates whether or not this physical entity is considered a ''field replaceable unit'' by the vendor. If this object contains the value ''true(1)'' then this entPhysicalEntry identifies a field replaceable unit. For all entPhysicalEntries which represent components that are permanently contained within a field replaceable unit, the value ''false(2)'' should be returned for this object. |
| Enums | true(1), false(2) |
| **ParentRelPos** | int | Description | An indication of the relative position of this ''child'' component among all its ''sibling'' components. Sibling components are defined as entPhysicalEntries which share the same instance values of each of the entPhysicalContainedIn and entPhysicalClass objects. An NMS can use this object to identify the relative ordering for all sibling components of a particular parent(identified by the entPhysicalContainedIn instance in each sibling entry).This value should match any external labeling of the physical component if possible. For example, for a container(e.g., card slot) labeled as ''slot #3'',entPhysicalParentRelPos should have the value ''3''. Note that the entPhysicalEntry for the module plugged in slot 3should have an entPhysicalParentRelPos value of ''1''.If the physical position of this component does not match any external numbering or clearly visible ordering, then user documentation or other external reference material should be used to determine the parent-relative position. If this is not possible, then the agent should assign a consistent (but possibly arbitrary) ordering to a given set of ''sibling'' components, perhaps based on internal representation of the components. If the agent cannot determine the parent-relative position for some reason, or if the associated value ofentPhysicalContainedIn is ''0'', then the value ''-1'' is returned. Otherwise a non-negative integer is returned, indicating the parent-relative position of this physical entity. Parent-relative ordering normally starts from ''1'' and continues to ''N'', where ''N'' represents the highest positioned child entity. However, if the physical entities(e.g., slots) are labeled from a starting position of zero, then the first sibling should be associated with aentPhysicalParentRelPos value of ''0''. Note that this ordering may be sparse or dense, depending on agent implementation. The actual values returned are not globally meaningful, as each ''parent'' component may use different numbering algorithms. The ordering is only meaningful among siblings of the same parent component. The agent should retain parent-relative position values across reboots, either through algorithmic assignment or use of non-volatile storage. |
| **ContainedIn** | int | Description | The value of entPhysicalIndex for the physical entity which ''contains'' this physical entity. A value of zero indicates this physical entity is not contained in any other physical entity. Note that the set of ''containment'' relationships define a strict hierarchy; that is, recursion is not allowed. In the event a physical entity is contained by more than one physical entity (e.g., double-wide modules), this object should identify the containing entity with the lowest value of entPhysicalIndex. |
| **Description** | string(1024) | Description | A textual description of physical entity. This object should contain a string which identifies the manufacturer's name for the physical entity, and should be set to a distinct value for each version or model of the physical entity. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Class** | ENTITY-MIB | | iso.org.dod.internet.mgmt.mib-2.entityMIB.entityMIBObjects.entityPhysical.entPhysicalTable.entPhysicalEntry.entPhysicalClass | 1.3.6.1.2.1.47.1.1.1.1.5 |
| **IsFRU** | ENTITY-MIB | | iso.org.dod.internet.mgmt.mib-2.entityMIB.entityMIBObjects.entityPhysical.entPhysicalTable.entPhysicalEntry.entPhysicalIsFRU | 1.3.6.1.2.1.47.1.1.1.1.16 |
| **ParentRelPos** | ENTITY-MIB | | iso.org.dod.internet.mgmt.mib-2.entityMIB.entityMIBObjects.entityPhysical.entPhysicalTable.entPhysicalEntry.entPhysicalParentRelPos | 1.3.6.1.2.1.47.1.1.1.1.6 |
| **ContainedIn** | ENTITY-MIB | | iso.org.dod.internet.mgmt.mib-2.entityMIB.entityMIBObjects.entityPhysical.entPhysicalTable.entPhysicalEntry.entPhysicalContainedIn | 1.3.6.1.2.1.47.1.1.1.1.4 |
| **Description** | ENTITY-MIB | | iso.org.dod.internet.mgmt.mib-2.entityMIB.entityMIBObjects.entityPhysical.entPhysicalTable.entPhysicalEntry.entPhysicalDescr | 1.3.6.1.2.1.47.1.1.1.1.2 |

## Inv\_SNMP\_HP\_Printer

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Model Number** | string(255) | Description | Identifies the device model number as listed in the HP corporate price list (e.g. C2121A for DeskJet 500C).The string is as specific as possible. Products should note in POS if the model number on the CPL changes but the device reports the previous model number. If the model number changes based on the installed options, the POS should indicate if only the base model number is returned, or if the device senses the installed options and returns the correct model number. If possible, encode the model number in a symbol set (like Roman-8)that matches the ASCII character set and limit the characters used to ASCII characters. Additional information: The value of this object does not change based on the installed options. The default of this object is the same on all MoBY printers. |
| **Model Name** | string(255) | Description | Identifies the device model name (e.g. ''''DeskJet1200C''''). The string is as specific as possible. Capitalization and spacing should match family naming conventions. Products should note in POS if the model name on the HP corporate price list changes but the device reports the previous device name. If the model name changes based on the installed options, the POS should indicate if only the base model name is returned, or if the device senses the installed options and returns the correct model name. If possible, encode the model name in a symbol set (like Roman-8) that matches the ASCII character set and limit the characters used to ASCII characters. Additional information: Since the value of this object is frequently used in displaying a list of printers, it is kept relatively short in case systems have limited width for their display area. The model name does not change based on sensing of installed options. |
| **Serial Number** | string(255) | Description | A recorded serial number for this device that indexes some type device catalog or inventory. This value is usually set by the device manufacturer but the MIB supports the option of write ability for this object for site-specific administration of device inventory or tracking. Refer to ftp://ftp.pwg.org/pub/pwg/pmp/drafts/pmib\_031698.txt, for more details in the Standard Printer MIB. |
| **Device Name** | string(255) | Description | An administrator-specified name for this printer. Depending upon implementation of this printer, the value of this object may or may not be same as the value for the MIB-II ''SysName'' object. Refer to ftp://ftp.pwg.org/pub/pwg/pmp/drafts/pmib\_031698.txt, for more details in the Standard Printer MIB. Additional information: The maximum supported string length is 32 characters. Length of 32 was chosen so a phone number could be included with the name. If the user-entered string is too long, the device will store as much as possible and will return the “noError” status. The value of this object is saved over a power cycle. |
| **Device Location** | string(255) | Description | User defined device location. The POS should indicate the maximum supported string length. If the user entered string is too long, the device will store as much as possible and will return the “noError”. Additional information: The maximum supported string length is 16 characters. If the user entered string is too long, the device will store the first 16 characters and will return the “noError” status. |
| **Asset Number** | string(255) | Description | User defined asset number. The POS should indicate the maximum supported string length. If the user entered string is too long, the device will store as much as possible and will return the “noError”. Additional information: The maximum supported string length is 8 characters. If the user entered string is too long, the device will store the first 8 characters and will return the <noError> status. |
| **Total PCL Page Count** | int | Description | Total number of PCL pages printed by the device. Additional information: In MoBY the PCL page count is kept in NVRAM, and the NVRAM value is updated at least every10 pages. NOTE: The value returned by this object will be incremented every page but if power is lost between NVRAM updates, up to 9 pages of the page count may be lost. The page count counter will be reset to zero after 16,777,215 (2^24-1) pages. The page count is incremented when a sheet of media is pulled from an input tray. A duplex printed sheet will cause this counter to be incremented by two. |
| **Total PS Page Count** | int | Description | Total number of PostScript pages printed by the device. Additional information: This object is only supported if the PostScript option is installed. In MoBY the count is kept in NVRAM, and the NVRAM value is updated at least every 10 sheets. NOTE: The value returned by this object will be incremented every sheet but if power is lost between NVRAM updates up to 9 sheets of the count may be lost. The counter will be reset to zero after 16,777,215 (2^24-1) pages. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Model Number** | LaserJet-Series8000-MIB | | iso.org.dod.internet.private.enterprises.hp.nm.hpsystem.net-peripheral.netdm.dm.device.system.id.model-number | 1.3.6.1.4.1.11.2.3.9.4.2.1.1.3.1 |
| **Model Name** | LaserJet-Series8000-MIB | | iso.org.dod.internet.private.enterprises.hp.nm.hpsystem.net-peripheral.netdm.dm.device.system.id.model-name | 1.3.6.1.4.1.11.2.3.9.4.2.1.1.3.2 |
| **Serial Number** | LaserJet-Series8000-MIB | | iso.org.dod.internet.private.enterprises.hp.nm.hpsystem.net-peripheral.netdm.dm.printmib.prtGeneral.prtGeneralTable.prtGeneralEntry.prtgeneralserialnumber | 1.3.6.1.4.1.11.2.3.9.4.2.2.5.1.1.17 |
| **Device Name** | LaserJet-Series8000-MIB | | iso.org.dod.internet.private.enterprises.hp.nm.hpsystem.net-peripheral.netdm.dm.printmib.prtGeneral.prtGeneralTable.prtGeneralEntry.prtgeneralprintername | 1.3.6.1.4.1.11.2.3.9.4.2.2.5.1.1.16 |
| **Device Location** | LaserJet-Series8000-MIB | | iso.org.dod.internet.private.enterprises.hp.nm.hpsystem.net-peripheral.netdm.dm.device.system.id.device-location | 1.3.6.1.4.1.11.2.3.9.4.2.1.1.3.11 |
| **Asset Number** | LaserJet-Series8000-MIB | | iso.org.dod.internet.private.enterprises.hp.nm.hpsystem.net-peripheral.netdm.dm.device.system.id.asset-number | 1.3.6.1.4.1.11.2.3.9.4.2.1.1.3.12 |
| **Total PCL Page Count** | LaserJet-Series8000-MIB | | iso.org.dod.internet.private.enterprises.hp.nm.hpsystem.net-peripheral.netdm.dm.device.processing-subsystem.pdl.pdl-pcl.pcl-total-page-count | 1.3.6.1.4.1.11.2.3.9.4.2.1.3.3.3.5 |
| **Total PS Page Count** | LaserJet-Series8000-MIB | | iso.org.dod.internet.private.enterprises.hp.nm.hpsystem.net-peripheral.netdm.dm.device.processing-subsystem.pdl.pdl-postscript.postscript-total-page-count | 1.3.6.1.4.1.11.2.3.9.4.2.1.3.3.4.5 |

## Inv\_SNMP\_Printer\_Cover

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Description** | string(255) | Description | The manufacturer provided cover sub-mechanism name in the localization specified by prtGeneralCurrentLocalization. |
| **Status** | string(255) | Description | The status of this cover sub-unit. |
| Enums | other(1), coverOpen(3), coverClosed(4), interlockOpen(5), interlockClosed(6) |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Description** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtCover.prtCoverTable.prtCoverEntry.prtCoverDescription | 1.3.6.1.2.1.43.6.1.1.2 |
| **Status** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtCover.prtCoverTable.prtCoverEntry.prtCoverStatus | 1.3.6.1.2.1.43.6.1.1.3 |

## Inv\_SNMP\_Printer\_Input\_Tray

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Name** | string(255) | Description | The name assigned to this input sub-unit. |
| **Vendor Name** | string(255) | Description | The vendor name of this input sub-unit. |
| **Model** | string(255) | Description | The model name of this input sub-unit. |
| **Description** | string(255) | Description | A free-form text description of this input sub-unit in the localization specified by prtGeneralCurrentLocalization. |
| **Max Capacity** | int | Description | The maximum capacity of the input sub-unit in input sub-unit capacity units (PrtCapacityUnitTC). There is no convention associated with the media itself so this value reflects claimed capacity. If this input sub-unit can reliably sense this value, the value is sensed by the printer and may not be changed by management requests; otherwise, the value may be written (by a Remote Control Panel or a Management Application). The value(-1) means other and specifically indicates that the sub-unit places no restrictions on this parameter. The value (-2) means unknown. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Name** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtInput.prtInputTable.prtInputEntry.prtInputName | 1.3.6.1.2.1.43.8.2.1.13 |
| **Vendor Name** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtInput.prtInputTable.prtInputEntry.prtInputVendorName | 1.3.6.1.2.1.43.8.2.1.14 |
| **Model** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtInput.prtInputTable.prtInputEntry.prtInputModel | 1.3.6.1.2.1.43.8.2.1.15 |
| **Description** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtInput.prtInputTable.prtInputEntry.prtInputDescription | 1.3.6.1.2.1.43.8.2.1.18 |
| **Max Capacity** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtInput.prtInputTable.prtInputEntry.prtInputMaxCapacity | 1.3.6.1.2.1.43.8.2.1.9 |

## Inv\_SNMP\_Printer\_Output\_Tray

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Name** | string(255) | Description | The name assigned to this output sub-unit. |
| **Vendor Name** | string(255) | Description | The vendor name of this output sub-unit. |
| **Model** | string(255) | Description | The model name assigned to this output sub-unit.NOTE: The above description has been modified from RFC 1759for clarification. |
| **Description** | string(255) | Description | A description of the media contained in this input sub-unit; This description is to be used by a client to format and Localize a string for display to a human operator. This description is not processed by the printer. It is used to provide information not expressible in terms of the other media attributes (e.g., prtInputMediaDimFeedDirChosen, prtInputMediaDimXFeedDirChosen, prtInputMediaWeight, prtInputMediaType). |
| **Max Capacity** | int | Description | The maximum capacity of this output sub-unit in output sub-unit capacity units (PrtCapacityUnitTC). There is no convention associated with the media itself so this value essentially reflects claimed capacity. If this output sub-unit can reliably sense this value, the value is sensed by the printer and may not be changed by management requests; otherwise, the value maybe written (by a Remote Control Panel or a Management Application). The value (-1) means other and specifically indicates that the sub-unit places no restrictions on this parameter. The value (-2) means unknown. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Name** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtOutput.prtOutputTable.prtOutputEntry.prtOutputName | 1.3.6.1.2.1.43.9.2.1.7 |
| **Vendor Name** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtOutput.prtOutputTable.prtOutputEntry.prtOutputVendorName | 1.3.6.1.2.1.43.9.2.1.8 |
| **Model** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtOutput.prtOutputTable.prtOutputEntry.prtOutputModel | 1.3.6.1.2.1.43.9.2.1.9 |
| **Description** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtInput.prtInputTable.prtInputEntry.prtInputMediaName | 1.3.6.1.2.1.43.8.2.1.12 |
| **Max Capacity** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtOutput.prtOutputTable.prtOutputEntry.prtOutputMaxCapacity | 1.3.6.1.2.1.43.9.2.1.4 |

## Inv\_SNMP\_Printer\_Supply

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Description** | string(255) | Description | The description of this supply container/receptacle in the localization specified by prtGeneralCurrentLocalization. |
| **Type** | string(255) | Description | The type of this supply. |
| **Level** | string(255) | Description | The current level if this supply is a container; the remaining space if this supply is a receptacle. If this supply container/receptacle can reliably sense this value, the value is reported by the printer and is read-only; otherwise, the value may be written (by a Remote Control Panel or a Management Application). The value (-1) means other and specifically indicates that the sub-unit places no restrictions on this parameter. The value (-2) means unknown. A value of (-3) means that the printer knows that there is some supply/remaining space, respectively. |
| Enums | Remaining Supply(-3), Unknown(-2), Other(-1) |
| **Max Capacity** | int | Description | The maximum capacity of this supply container/receptacle expressed in prtMarkerSuppliesSupplyUnit. If this supply container/receptacle can reliably sense this value, the value is reported by the printer and is read-only; otherwise, the value may be written (by a Remote Control Panel or a Management Application). The value (-1) means other and specifically indicates that the sub-unit places no restrictions on this parameter. The value (-2) means unknown. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Description** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtMarkerSupplies.prtMarkerSuppliesTable.prtMarkerSuppliesEntry.prtMarkerSuppliesDescription | 1.3.6.1.2.1.43.11.1.1.6 |
| **Type** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtMarkerSupplies.prtMarkerSuppliesTable.prtMarkerSuppliesEntry.prtMarkerSuppliesType | 1.3.6.1.2.1.43.11.1.1.5 |
| **Level** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtMarkerSupplies.prtMarkerSuppliesTable.prtMarkerSuppliesEntry.prtMarkerSuppliesLevel | 1.3.6.1.2.1.43.11.1.1.9 |
| **Max Capacity** | Printer-MIB | | iso.org.dod.internet.mgmt.mib-2.printmib.prtMarkerSupplies.prtMarkerSuppliesTable.prtMarkerSuppliesEntry.prtMarkerSuppliesMaxCapacity | 1.3.6.1.2.1.43.11.1.1.8 |

# NetWare Data Classes

## Inv\_SNMP\_NW\_Adapters

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Index** | string(255) | Key | TRUE |
| Description | A unique value for each adapter contained in the host. The value for each adapter must remain constant at least from one re-initialization of the agent to the next re-initialization. |
| **Description** | string(255) | Description | A description the hardware for this adapter. This will usually include manufacturer, model, and version information. For LAN adapters, this could include the short board name and the boards burnt-in MAC address. |
| **Driver Description** | string(255) | Description | A textual description of the driver for this adapter |
| **Driver Major Version** | int | Description | The major version number of the adapter driver. |
| **Driver Minor Version** | int | Description | The minor version number of the adapter driver. |
| **Port1** | int | Description | The primary I/O port block. This is the base address of a block of I/O addresses decoded by the adapter. The value will be zero if there is no I/O address associated with this adapter. |
| **Port1 Len** | int | Description | The number of I/O ports in the block starting atnwhrAdapterPort1. This value is used in conjunction with nwhrAdapterPort1 to determine the I/O block used by the adapter. The value will be zero if there is no I/O address associated with this adapter. |
| **Port2** | int | Description | The secondary I/O port block. This is the base address of a block of I/O addresses decoded by the adapter. The value will be zero if there is no secondary I/O address associated with this adapter. |
| **Port2 Len** | int | Description | The number of I/O ports in the block starting atnwhrAdapterPort2. This value is used in conjunction with nwhrAdapterPort2 to determine the secondary I/O block used by the adapter. The value will be zero if there is no I/O address associated with this adapter. |
| **Mem1** | int | Description | The primary Memory Address. This is the base address of the primary block of memory space decoded by the adapter. The value will be zero if there is no memory address associated with this adapter. |
| **Mem1 Len** | int | Description | The length, in bytes, of the primary memory address block. From this value and nwhrAdapterMem1, a determination can be made as to which memory address ranges are in use by the adapter. |
| **Mem2** | int | Description | The secondary Memory Address. This is the address of the secondary block of memory space decoded by the adapter. The value will be zero if there is no secondary memory address associated with this adapter. |
| **Mem2 Len** | int | Description | The length, in bytes, of the secondary memory address block. From this value and nwhrAdapterMem2, a determination can be made as to which memory address ranges are in use by the adapter. |
| **DMA1** | int | Description | The primary DMA channel used by the adapter. The value will be 255 if this adapter does not use any DMA channel. |
| **DMA2** | int | Description | The secondary DMA channel used by the adapter. The value will be 255 if this adapter does not use a secondary DMA channel. |
| **Interrupt1** | int | Description | The primary interrupt vector used by the adapter. The value will be 255 if this adapter does not use any Interrupt. |
| **Interrupt2** | int | Description | The secondary interrupt vector used by the adapter. The value will be 255 if this adapter does not use a secondary Interrupt. |
| **Slot** | int | Description | The slot in which the adapter resides. The value will be zero if the slot information is not available on the platform, such as an ISA based PC, otherwise the value will be the slot number the adapter resides. The slot number starts from 1. |
| **Devices** | int | Description | The number of devices associated with this adapter. For instance, the number of drives attached to a disk controller. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Index** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterIndex | 1.3.6.1.4.1.23.2.27.3.10.1.1 |
| **Description** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterDescr | 1.3.6.1.4.1.23.2.27.3.10.1.3 |
| **Driver Description** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterDriverDescr | 1.3.6.1.4.1.23.2.27.3.10.1.4 |
| **Driver Major Version** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterDriverMajorVer | 1.3.6.1.4.1.23.2.27.3.10.1.5 |
| **Driver Minor Version** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterDriverMinorVer | 1.3.6.1.4.1.23.2.27.3.10.1.6 |
| **Port1** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterPort1 | 1.3.6.1.4.1.23.2.27.3.10.1.7 |
| **Port1 Len** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterPort1Len | 1.3.6.1.4.1.23.2.27.3.10.1.8 |
| **Port2** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterPort2 | 1.3.6.1.4.1.23.2.27.3.10.1.9 |
| **Port2 Len** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterPort2Len | 1.3.6.1.4.1.23.2.27.3.10.1.10 |
| **Mem1** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterMem1 | 1.3.6.1.4.1.23.2.27.3.10.1.11 |
| **Mem1 Len** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterMem1Len | 1.3.6.1.4.1.23.2.27.3.10.1.12 |
| **Mem2** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterMem2 | 1.3.6.1.4.1.23.2.27.3.10.1.13 |
| **Mem2 Len** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterMem2Len | 1.3.6.1.4.1.23.2.27.3.10.1.14 |
| **DMA1** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterDMA1 | 1.3.6.1.4.1.23.2.27.3.10.1.15 |
| **DMA2** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterDMA2 | 1.3.6.1.4.1.23.2.27.3.10.1.16 |
| **Interrupt1** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterInterrupt1 | 1.3.6.1.4.1.23.2.27.3.10.1.17 |
| **Interrupt2** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterInterrupt2 | 1.3.6.1.4.1.23.2.27.3.10.1.18 |
| **Slot** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterSlot | 1.3.6.1.4.1.23.2.27.3.10.1.19 |
| **Devices** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrAdapterTable.nwhrAdapterEntry.nwhrAdapterDevices | 1.3.6.1.4.1.23.2.27.3.10.1.20 |

## Inv\_SNMP\_NW\_Disk\_Storage

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Heads** | int | Description | The number of read/write heads on the drive |
| **Cyls** | int | Description | The number of cylinders on the drive. |
| **Sectors** | int | Description | The number of sectors per track on the drive. |
| **Sector Size** | int | Description | The size of a sector in bytes. |
| **Block Size** | int | Description | The driver maximum I/O request size in bytes. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Heads** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrDiskStorageTable.nwhrDiskStorageEntry.nwhrDiskStorageHeads | 1.3.6.1.4.1.23.2.27.3.6.1.1 |
| **Cyls** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrDiskStorageTable.nwhrDiskStorageEntry.nwhrDiskStorageCylinders | 1.3.6.1.4.1.23.2.27.3.6.1.2 |
| **Sectors** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrDiskStorageTable.nwhrDiskStorageEntry.nwhrDiskStorageSectorsPerTrack | 1.3.6.1.4.1.23.2.27.3.6.1.3 |
| **Sector Size** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrDiskStorageTable.nwhrDiskStorageEntry.nwhrDiskStorageSectorSize | 1.3.6.1.4.1.23.2.27.3.6.1.4 |
| **Block Size** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrDiskStorageTable.nwhrDiskStorageEntry.nwhrDiskStorageBlockSize | 1.3.6.1.4.1.23.2.27.3.6.1.5 |

## Inv\_SNMP\_NW\_NLM

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Index** | int | Key | TRUE |
| Description | A number that uniquely identifies an NLM. The value of this object for a particular NLM has the same value as the hrSWRunIndex object, defined in the HOST-RESOURCES-MIB, for the same NLM. |
| **Name** | string(255) | Description | The name of the NLM. |
| **Description** | string(255) | Description | A text string that describes this NLM. |
| **Total Memory** | int | Description | The total memory, in bytes, used by this NLM. This is a composite total of Short Term Memory, Semi-Permanent Memory, and Non-movable Cache Memory allocated by the NLM, plus the sizes of the code and data sections of this instance of an NLM. |
| **Major Version** | int | Description | The major version number of this NLM. |
| **Minor Version** | int | Description | The minor version number of this NLM. |
| **Revision** | int | Description | The revision level of this NLM. |
| **Release Date** | string(255) | Description | The date and time this NLM was released |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Index** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwNLM.nwNLMTable.nwNLMEntry.nwNLMIndex | 1.3.6.1.4.1.23.2.28.9.1.1.1 |
| **Name** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwNLM.nwNLMTable.nwNLMEntry.nwNLMName | 1.3.6.1.4.1.23.2.28.9.1.1.2 |
| **Description** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwNLM.nwNLMTable.nwNLMEntry.nwNLMDescription | 1.3.6.1.4.1.23.2.28.9.1.1.3 |
| **Total Memory** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwNLM.nwNLMTable.nwNLMEntry.nwNLMTotalMemory | 1.3.6.1.4.1.23.2.28.9.1.1.4 |
| **Major Version** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwNLM.nwNLMTable.nwNLMEntry.nwNLMMajorVer | 1.3.6.1.4.1.23.2.28.9.1.1.7 |
| **Minor Version** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwNLM.nwNLMTable.nwNLMEntry.nwNLMMinorVer | 1.3.6.1.4.1.23.2.28.9.1.1.8 |
| **Revision** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwNLM.nwNLMTable.nwNLMEntry.nwNLMRevision | 1.3.6.1.4.1.23.2.28.9.1.1.9 |
| **Release Date** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwNLM.nwNLMTable.nwNLMEntry.nwNLMReleaseDate | 1.3.6.1.4.1.23.2.28.9.1.1.10 |

## Inv\_SNMP\_NW\_Partitions

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Index** | int | Key | TRUE |
| Description | A unique value for each physical partition on this long-term storage device. The value for each long-term storage device must remain constant from one re-initialization of the agent to the next re-initialization. |
| **Type** | string(255) | Description | The type of this physical partition. |
| Enums | other(1), netWare(2), dos(3), inwDos(4) |
| **Description** | string(255) | Description | A textual description of this partition. |
| **Size** | int | Description | The size (in Kilobytes) of this physical partition. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Index** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPhysicalPartitionTable.nwhrPhysicalPartitionEntry.nwhrPhysicalPartitionIndex | 1.3.6.1.4.1.23.2.27.3.7.1.1 |
| **Type** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPhysicalPartitionTable.nwhrPhysicalPartitionEntry.nwhrPhysicalPartitionType | 1.3.6.1.4.1.23.2.27.3.7.1.2 |
| **Description** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPhysicalPartitionTable.nwhrPhysicalPartitionEntry.nwhrPhysicalPartitionDescr | 1.3.6.1.4.1.23.2.27.3.7.1.3 |
| **Size** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPhysicalPartitionTable.nwhrPhysicalPartitionEntry.nwhrPhysicalPartitionSize | 1.3.6.1.4.1.23.2.27.3.7.1.4 |

## Inv\_SNMP\_NW\_Printers

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **ID** | int | Key | TRUE |
| Description | A unique value for each accessible printer. This value will be constant for the lifetime of the mapping. |
| **Local Name** | string(255) | Description | The local name for the printer. |
| **Queue Name** | string(255) | Description | The name of the print queue associated with this printer. Zero length string if printer is local. |
| **Server Name** | string(255) | Description | The name of the server containing the print queue. Zero length string if printer is local. |
| **Transport Domain** | string(255) | Description | The transport domain associated with the printer(print queue). |
| Enums | noAddress(1), ipx(2), ip(3), appleTalkDDP(4) |
| **Transport Address** | string(255) | Description | The transport address associated with this printer(print queue). Zero length string if printer is local. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **ID** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPrinterTable.nwhrPrinterEntry.nwhrPrinterID | 1.3.6.1.4.1.23.2.27.3.13.1.1 |
| **Local Name** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPrinterTable.nwhrPrinterEntry.nwhrPrinterLocalName | 1.3.6.1.4.1.23.2.27.3.13.1.3 |
| **Queue Name** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPrinterTable.nwhrPrinterEntry.nwhrPrinterQueueName | 1.3.6.1.4.1.23.2.27.3.13.1.4 |
| **Server Name** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPrinterTable.nwhrPrinterEntry.nwhrPrinterServerName | 1.3.6.1.4.1.23.2.27.3.13.1.5 |
| **Transport Domain** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPrinterTable.nwhrPrinterEntry.nwhrPrinterTransportDomain | 1.3.6.1.4.1.23.2.27.3.13.1.6 |
| **Transport Address** | NetWare-Host-Ext-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwHostExtensions.nwhrDevice.nwhrPrinterTable.nwhrPrinterEntry.nwhrPrinterTransportAddress | 1.3.6.1.4.1.23.2.27.3.13.1.7 |

## Inv\_SNMP\_NW\_Server

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Server Name** | string(255) | Key | TRUE |
| Description | The physical name of this NetWare server. |
| **Serial Number** | string(255) | Description | The serial number of the instance of the NetWare Operating System running on this server. |
| **Internal Net Number** | string(255) | Description | The internal IPX network number of this server. |
| **SFT Level** | string(255) | Description | The System Fault Tolerance Level of the NetWare Operating System running on this server. |
| Enums | other(1), sftI(2), sftII(3), sftIII(4) |
| **Major Version** | int | Description | The major version number of the NetWare Operating System running on this server. |
| **Minor Version** | int | Description | The minor version number of the NetWare Operating System running on this server. |
| **Release Date** | string(255) | Description | The release date of the NetWare Operating System running on this server. |
| **Description** | string(255) | Description |  |
| **NDS Tree** | string(255) | Description | The name of the NetWare directory services tree containing this server. Or, a zero-length string if not applicable. |
| **NDS Name** | string(255) | Description | The Directory Services full distinguished name of this NetWare server, or the zero-length string if not applicable. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Server Name** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSystem.nwSysServerName | 1.3.6.1.4.1.23.2.28.1.1 |
| **Serial Number** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSystem.nwSysSerialNumber | 1.3.6.1.4.1.23.2.28.1.2 |
| **Internal Net Number** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSystem.nwSysInternalNetNum | 1.3.6.1.4.1.23.2.28.1.3 |
| **SFT Level** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSystem.nwSysOSSFTLevel | 1.3.6.1.4.1.23.2.28.1.5 |
| **Major Version** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSystem.nwSysOSMajorVer | 1.3.6.1.4.1.23.2.28.1.6 |
| **Minor Version** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSystem.nwSysOSMinorVer | 1.3.6.1.4.1.23.2.28.1.7 |
| **Release Date** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSystem.nwSysOSReleaseDate | 1.3.6.1.4.1.23.2.28.1.8 |
| **Description** |  | |  |  |
| **NDS Tree** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSystem.nwSysDirectoryTree | 1.3.6.1.4.1.23.2.28.1.17 |
| **NDS Name** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSystem.nwSysServerDSName | 1.3.6.1.4.1.23.2.28.1.19 |

## Inv\_SNMP\_NW\_Settings

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Category Index** | int | Key | TRUE |
| Description | A number that uniquely identifies a Set parameter category. The value of this object for a particular category has the same value as the nwSetCategoryIndexobject for the same category. |
| **Index** | int | Key | TRUE |
| Description | An index which uniquely identifies this set parameter within the category |
| **Name** | string(255) | Description | The name of the settable parameter |
| **Type** | string(255) | Description | The type of the parameter. All types are integer-valued except ''string'', which is string-valued. number: integerboolean: 0 == FALSE, non-zero == TRUE ticks: 1 tick == 3600/65535 == approx 55 millisecsblockShift: integertimeOffset: [+|-]hh:mm:ss converted to seconds string: character string trigger: integer |
| Enums | number(1), boolean(2), ticks(3), blockShift(4), timeOffset(5), string(6), trigger(7) |
| **ValueInt** | int | Description | The current value of the parameter if integer-valued. Zero otherwise. |
| **ValueString** | string(255) | Description | The current value of the parameter if string-valued. The zero-length string otherwise. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Category Index** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetParamTable.nwSetParamEntry.nwSetParamCategoryIndex | 1.3.6.1.4.1.23.2.28.10.2.1.1 |
| **Index** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetParamTable.nwSetParamEntry.nwSetParamIndex | 1.3.6.1.4.1.23.2.28.10.2.1.2 |
| **Name** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetParamTable.nwSetParamEntry.nwSetParamName | 1.3.6.1.4.1.23.2.28.10.2.1.3 |
| **Type** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetParamTable.nwSetParamEntry.nwSetParamType | 1.3.6.1.4.1.23.2.28.10.2.1.4 |
| **ValueInt** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetParamTable.nwSetParamEntry.nwSetParamValueInteger | 1.3.6.1.4.1.23.2.28.10.2.1.5 |
| **ValueString** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetParamTable.nwSetParamEntry.nwSetParamValueString | 1.3.6.1.4.1.23.2.28.10.2.1.6 |

## Inv\_SNMP\_NW\_Settings\_Descriptions

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **Category Index** | int | Key | TRUE |
| Description | A number that uniquely identifies a Set parameter category. The value of this object for a particular category has the same value as the nwSetCategoryIndexobject for the same category. |
| **Param Index** | int | Key | TRUE |
| Description | A number that uniquely identifies a Set parameter. The value of this object for a particular parameter has the same value as the nwSetParamIndex object for the same parameter. |
| **Index** | int | Key | TRUE |
| Description | An ordinal that indicates this segment's relative position in the complete description string for this NetWare SET Parameter. |
| **Description** | string(255) | Description | A segment of the description string for this NetWare SET parameter. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **Category Index** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetDescrTable.nwSetDescrEntry.nwSetDescrCategoryIndex | 1.3.6.1.4.1.23.2.28.10.3.1.1 |
| **Param Index** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetDescrTable.nwSetDescrEntry.nwSetDescrParamIndex | 1.3.6.1.4.1.23.2.28.10.3.1.2 |
| **Index** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetDescrTable.nwSetDescrEntry.nwSetDescrIndex | 1.3.6.1.4.1.23.2.28.10.3.1.3 |
| **Description** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwSetParams.nwSetDescrTable.nwSetDescrEntry.nwSetDescription | 1.3.6.1.4.1.23.2.28.10.3.1.4 |

## Inv\_SNMP\_NW\_Volume

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Qualifiers** | |
| **Name** | **Value** |
| **ID** | int | Key | TRUE |
| Description | A unique value for each NetWare volume on the server. The value for each volume must remain constant at least from one re-initialization of the agent to the next re-initialization. |
| **Physical Name** | string(255) | Description | The name of the physical volume (as opposed to any Directory Services (DS) name. |
| **Size** | int | Description | The size of the volume in KBytes. |
| **Free Space** | int | Description | The free space on the volume in KBytes. As this number approaches zero, the volume is running out of space for new or expanding files. |
| **Freeable Space** | int | Description | The amount of freeable space (in KBytes) being used by previously deleted files on this volume. The freeable space can be reclaimed as free space by purging deleted files. |
| **Block Size** | int | Description | The block size on the volume in bytes. |
| **Mounted** | string(255) | Description | The mount state of the volume. Note that if the volume is not mounted, all the other values in the table, except nwVolName, are invalid. Writing a value of mounted(1) to this object will cause the volume to be mounted if it is currently dismounted. Writing a value of dismounted(2) to this object will cause the volume to be dismounted if the volume is currently mounted. |
| Enums | mounted(1), dismounted(2) |
| **Namespaces** | int | Description | A value representing all the name spaces supported by this volume. The value is a sum. This value initially takes the value zero, then for each name space that is supported by the volume, 2 raised to a power is added to the sum. The powers are according to the following table: Name Space PowerDOS 0MAC 1NFS 2FTAM 3OS/2 4NT 5For example, a volume supporting both the DOS and MACname spaces would have a value of 3 (2\*\*0 + 2\*\*1). |
| **DS Name** | string(255) | Description | The full Directory Services distinguished name for the volume, or the zero-length string if not applicable. |
| **Filesystem** | string(255) | Description | If remote, the remote mount point; e.g. va:/usr/xIf local, the zero length string. |

**MIB Information by Field Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **MIB** | | | | |
| **File** | **OID String** | | **Object ID** | |
| **ID** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolID | 1.3.6.1.4.1.23.2.28.2.14.1.1 |
| **Physical Name** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolPhysicalName | 1.3.6.1.4.1.23.2.28.2.14.1.2 |
| **Size** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolSize | 1.3.6.1.4.1.23.2.28.2.14.1.3 |
| **Free Space** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolFree | 1.3.6.1.4.1.23.2.28.2.14.1.4 |
| **Freeable Space** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolFreeable | 1.3.6.1.4.1.23.2.28.2.14.1.5 |
| **Block Size** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolBlockSize | 1.3.6.1.4.1.23.2.28.2.14.1.7 |
| **Mounted** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolMounted | 1.3.6.1.4.1.23.2.28.2.14.1.8 |
| **Namespaces** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolNameSpaces | 1.3.6.1.4.1.23.2.28.2.14.1.10 |
| **DS Name** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolDSName | 1.3.6.1.4.1.23.2.28.2.14.1.14 |
| **Filesystem** | NetWare-Server-MIB | | iso.org.dod.internet.private.enterprises.novell.mibDoc.nwServer.nwFileSystem.nwFSVolTable.nwFSVolEntry.nwVolFileSystemName | 1.3.6.1.4.1.23.2.28.2.14.1.16 |

# Conclusion

I hope this information is useful when working with Network Devices for Inventory, or Agentless Inventory. Note that much of the benefit of Inventory for Network Devices is the ability to setup custom data classes with custom SNMP calls and data capture. While these default tables provide a decent amount of data, if network Discovery and Agentless Inventory do not provide what you need, use the Custom Data Mappings to properly capture needed data.