

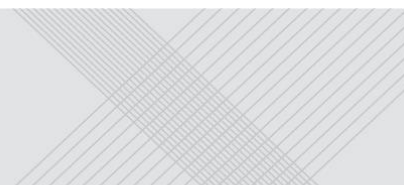
FlexNet Inventory Agent Data Collection

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Document History

Date	Revision	Description	Author(s)
August 20, 2018	1.0	Initial Revision	Oliver Queck

Introduction

This document describes attributes collected when performing an inventory using the FlexNet Inventory Agent. It is divided into the following sections:

- Hardware Inventory
- File Evidence
- Installer Evidence
- WMI Evidence

Intended audience

This document is intended to be used by the following people:

- Systems engineers responsible for implementing and maintaining the FNMS system.
- Network and security personnel who have responsibility for networks and infrastructure the FNMS system relies upon
- Flexera consultants working on the system.

It is assumed that readers of this document have completed an appropriate FNMS administration training course to understand basic concepts and aspects of the FNMS product solution.

Hardware inventory

This section describes the hardware components collected when performing an inventory using the FlexNet Inventory Agent.

Microsoft Windows operating systems

Hardware components are collected using WMI queries on Microsoft Windows with the following WMI classes and their associated attributes being collected out of the box:

[Win32_ComputerSystem]

Manufacturer

Model

Domain

DomainRole

NumberOfProcessors

NumberOfLogicalProcessors

TotalPhysicalMemory

Status

UserName

[Win32_ComputerSystemProduct]

IdentifyingNumber

Name
UUID
Vendor
Version
[Win32_BIOS]
Manufacturer
Version
ReleaseDate
SerialNumber
BiosCharacteristics
Status

[Win32_Processor]

Description
Manufacturer
Version
ProcessorId
CurrentClockSpeed
CurrentVoltage
L2CacheSize
Status
MaxClockSpeed
Name
ProcessorType
NumberOfLogicalProcessors
NumberOfCores
DeviceID

[Win32_DiskDrive]

Description
Manufacturer
Model
Size
InterfaceType
Partitions
SerialNumber
Status

[Win32_LogicalDisk]

Description
VolumeName
FileSystem
FreeSpace
Size
VolumeSerialNumber
DriveType
MediaType
Status
ProviderName

[Win32_CDROMDrive]

Description
Manufacturer
Drive
Status
Capabilities

[Win32_NetworkAdapter]

Manufacturer
MACAddress
MaxSpeed
Speed
Status

[Win32_NetworkAdapterConfiguration]

Caption
Description
Index
MACAddress
IPEnabled
DHCPEnabled
IPAddress
DHCPServer
DNSHostName
DNSDomain
DNSServerSearchOrder
DefaultIPGateway
IPSubnet

[Win32_PhysicalMemory]

Capacity
MemoryType
PositionInRow
Speed
Status

[Win32_SoundDevice]

Name
Manufacturer

[Win32_VideoController]

Name
VideoProcessor
DriverVersion
DriverDate
InstalledDisplayDrivers
AdapterRAM

[Win32_VideoConfiguration]

AdapterRAM
AdapterType
Description
HorizontalResolution
MonitorManufacturer
MonitorType
Name
VerticalResolution

[Win32_SystemEnclosure]

These WMI settings are part of the wmitrack.ini file which resides in the same location as the ndtrack executable.

UNIX operating systems

Hardware components are collected using internal ManageSoft class libraries on UNIX operating systems with the following hardware attributes being collected out of the box:

[ManageSoft]

[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_OperatingSystem]

provider=AIXOperatingSystem

```
[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_NetworkAdapterConfiguration]
provider=AIXNetworkAdapterConfiguration
```

```
[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_VideoController]
provider=AIXVideoController
```

```
[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_Processor]
provider=AIXODM
dev=processor/sys/*
Description=dev.attr.type
DeviceID=dev.name
MaxClockSpeed=dev.attr.frequency/1000000
NumberOfCores=1
NumberOfLogicalProcessors=dev.attr.smt_enabled?dev.attr.smt_threads:1
Name=dev.attr.type
Status=dev.attr.state
```

```
[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_PhysicalMemory]
provider=AIXODM
dev=memory/sys/totmem
Description=dev.description
Name=dev.name
Capacity=dev.attr.size*1024*1024
```

```
[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_DiskDrive]
provider=AIXODM
dev=disk/*
Description=dev.description(dev.attr.message_no)
Name=dev.name
Size=length(dev.attr.size_in_mb)?dev.attr.size_in_mb*1000000:dev.attr.size*1000000
SerialNumber=dev.attr.pvid
```

```
[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_ComputerSystemProduct]
provider=AIXODM
dev=sys/node/*
Description=dev.description
Name=dev.attr.modelname
Type=substr(dev.attr.modelname,4,4)
Model=substr(dev.attr.modelname,9)
IdentifyingNumber=substr(dev.attr.systemid,6)
HostID=substr(dev.attr.id_to_system,2)
```

```
[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_BIOS]
provider=AIXODM
dev=sys/node/*
Name=dev.name
Version=dev.attr.fwversion
SerialNumber=substr(dev.attr.id_to_partition,2)
```

```
[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_SystemEnclosure]
provider=AIXODM
dev=planar/sys/*
Description=dev.description
Name=dev.name
ChassisTypes=2
```

```
[ManageSoft\Tracker\CurrentVersion\AIX\Hardware\MGS_ComputerSystem]
provider=AIXComputerSystem
```

```
[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_OperatingSystem]
provider=MacOperatingSystem
```

```
[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_PhysicalMemory]
```

```
provider=MacPhysicalMemory

[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_Processor]
provider=MacProcessor

[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_BIOS]
provider=MacBIOS

[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_ComputerSystem]
provider=MacComputerSystem

[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_ComputerSystemProduct]
provider=MacComputerSystemProduct

[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_SystemEnclosure]
provider=MacSystemEnclosure

[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_VideoController]
provider=MacVideoController

[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_DiskDrive]
provider=MacDiskDrive

[ManageSoft\Tracker\CurrentVersion\Darwin\Hardware\MGS_NetworkAdapterConfiguration]
provider=UnixNetworkAdapterConfiguration

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_OperatingSystem]
provider=HPUXOperatingSystem

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_Processor]
provider=HPUXProcessor

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_PhysicalMemory]
provider=HPUXPhysicalMemory

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_ComputerSystemProduct]
provider=HPUXComputerSystemProduct

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_BIOS]
provider=HPUXBIOS

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_DiskDrive]
provider=HPUXDiskDrive

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_NetworkAdapterConfiguration]
provider=HPUXNetworkAdapterConfiguration

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_VideoController]
provider=HPUXVideoController

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_SystemEnclosure]
provider=UnixSystemEnclosure

[ManageSoft\Tracker\CurrentVersion\HP-UX\Hardware\MGS_ComputerSystem]
provider=HPUXComputerSystem

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_OperatingSystem]
provider=LinuxOperatingSystem

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_NetworkAdapterConfiguration]
provider=LinuxNetworkAdapterConfiguration

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_VideoController]
```

```

provider=LinuxVideoController

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_PhysicalMemory]
provider=LinuxPhysicalMemory

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_Processor]
provider=LinuxProcessor

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_DiskDrive]
provider=LinuxDiskDrive

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_BIOS]
provider=LinuxBIOS

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_SystemEnclosure]
provider=LinuxSystemEnclosure

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_ComputerSystem]
provider=LinuxComputerSystem

[ManageSoft\Tracker\CurrentVersion\Linux\Hardware\MGS_ComputerSystemProduct]
provider=LinuxComputerSystemProduct

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_OperatingSystem]
provider=SolarisOperatingSystem

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_Processor]
provider=SolarisProcessor

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_PhysicalMemory]
provider=SolarisPhysicalMemory

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_ComputerSystemProduct]
provider=SolarisComputerSystemProduct

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_BIOS]
provider=SolarisBIOS

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_SystemEnclosure]
provider=SolarisSystemEnclosure

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_DiskDrive]
provider=SolarisDiskDrive

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_NetworkAdapterConfiguration]

provider=SolarisNetworkAdapterConfiguration

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_VideoController]
provider=SolarisVideoController

[ManageSoft\Tracker\CurrentVersion\SunOS\Hardware\MGS_ComputerSystem]
provider=SolarisComputerSystem

```

File evidence

The following file extensions are collected as *file evidence* when performing an inventory with the FlexNet Inventory Agent.

- **exe**

- **sys**
- **sys2**
- **wtag**
- **ptag**
- **lax**
- **dtag**
- **sig**

Installer evidence

The following evidence types are collected as **installer evidence** when performing an inventory with the FlexNet Inventory Agent:

Evidence type	Detail
Add/Remove Programs	Information stored in this Windows facility to allow software to be removed
BEA	A custom installer developed by BEA Systems, acquired by Oracle in early 2008
IA	InstallAnywhere, from Flexera Software
ILMT	Evidence imported from the database in ILMT, from IBM
IPS	An Oracle installation technology used on Solaris 11
ISMP	InstallShield Multiplatform, from Flexera Software
LLP	The installation technology for 'licensed program products' on AIX, from IBM
MSI	Evidence left in the registry by the Microsoft Installer on Windows
OS X App	An application bundle for Macintosh OS X
RPM	A widely-used installation technology available on many GNU/Linux distributions, AIX, and Novell Netware
SDUX	The Software Distributor for HP-UX, from Hewlett-Packard
Software ID Tag	evidence gathered from an ISO standard software Identification tag file.
SUNPKG	— An installer on Solaris for the SVR4 package format. (Legacy SVR4 packages installed by the Solaris 11 IPS tool will also be recognized and identified with this label.)

WMI evidence

The following WMI evidence is captured on Microsoft Windows operating systems when performing an inventory using the FlexNet Inventory Agent.

```
[Win32_OperatingSystem]
Name
Manufacturer
Version
ServicePackMajorVersion
ServicePackMinorVersion
SerialNumber
InstallDate
LastBootUpTime
OSLanguage
```

FreePhysicalMemory
FreeVirtualMemory
CountryCode
WindowsDirectory
SystemDirectory
Caption
CSDVersion
Status
CSName
OSType
OSArchitecture

[SoftwareLicensingProduct]

ApplicationID
Description
EvaluationEndDate
GracePeriodRemaining
LicenseStatus
MachineURL
Name
OfflineInstallationId
PartialProductKey
ProcessorURL
ProductKeyID
ProductKeyURL
UseLicenseURL

[SoftwareLicensingService]

ClientMachineID
IsKeyManagementServiceMachine
KeyManagementServiceCurrentCount
KeyManagementServiceMachine
KeyManagementServiceProductKeyID
PolicyCacheRefreshRequired
RequiredClientCount
Version
VLActivationInterval
VLRenewalInterval

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