



## Operations Manager Support for SNMP MIBs

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IP Communications Operations Manager (Operations Manager) supports the host resources MIB and implements the system application MIBs using SNMP v2. Operations Manager supplies an SNMP subagent. You can use simple SNMP queries to monitor the health of the system.

For information about configuring your system to use SNMP to manage Operations Manager, see [Using SNMP to Monitor Operations Manager, page 19-28](#). The following topics provide implementation details for the MIBs that Operations Manager supports:

- [Host Resource MIB Implementation, page H-1](#)
- [System Application MIB Implementation, page H-1](#)

### Host Resource MIB Implementation

Operations Manager uses the Windows operating system implementation of the host resources MIB. Support for the host resources MIB, defined in RFC 1514, enables you to monitor the server where Operations Manager is installed, providing details for:

- Hardware such as processors, storage, and memory.
- Software such as operating system and running processes.

For more information about the host resources MIB, you can browse MIB information at the following URL:

<http://www.cisco.com/cgi-bin/Support/Mibbrowser/mibinfo.pl?tab=4>

### System Application MIB Implementation

The system application MIB, defined in RFC 2287, provides applications installed, processes running for an application, and past run information. You can use the information in the system application MIB to determine the overall health of Operations Manager and drill down to the actual processes running for the application.

For more information about the system application MIB, you can browse MIB information at the following URL:

<http://www.cisco.com/cgi-bin/Support/Mibbrowser/mibinfo.pl?tab=4>

For an example of the data stored in this MIB, see the [Sample MIB Walk for System Application MIB, page H-7](#).

## System Application Resource MIB Tables

This section describes MIB tables that contain the following information:

- [Installed Packages, page H-2](#)
- [Installed Elements, page H-3](#)
- [Package Status Information, page H-3](#)
- [Element Status Information, page H-4](#)
- [Status of Packages when They Ran Previously, page H-5](#)
- [Status of Elements when They Ran Previously, page H-6](#)
- [Scalar Variables, page H-6](#)
- [Process Map, page H-7](#)

### Installed Packages

[Table H-1](#) stores information for installed packages for Operations Manager.

**Table H-1** *sysApplInstallPkgTable*

MIB Row Entry	Description from the MIB	Usage
sysApplInstallPkgIndex	Part of the index for this table. An integer used only for indexing purposes. Generally monotonically increasing from 1 as new applications are installed.	Running number for each application registered with the SNMP subagent.
sysApplInstallPkgManufacturer	The manufacturer of the software application package.	Cisco Systems, Inc.
sysApplInstallPkgProductName	The name assigned to the software application package by the manufacturer.	Name provided when the application was registered with the SNMP subagent, such as IP Communications Operations Manager 2.0 with IDU 4. <b>Note</b> Use this name to select an application to watch.
sysApplInstallPkgVersion	The version number assigned to the application package by the manufacturer of the software.	Version number such as 2.0.4, where 2 is the major version, 0 is the minor version, and 4 is the patch version or incremental device update (IDU) number.
sysApplInstallPkgSerialNumber	The serial number of the software assigned by the manufacturer.	“n/a”
sysApplInstallPkgDate	The date and time this software application was installed on the host.	—
sysApplInstallPkgLocation	The complete pathname where the application package is installed.	<i>NMSROOT</i> —Directory where Operations Manager is installed. If you selected the default directory during installation, it is C:\Program~1\CSCOpX.

## Installed Elements

For each entry in the installed packages table, [Table H-1](#), there can be many entries in the installed element table, [Table H-2](#). The number of installed elements for a package corresponds to the number of processes being monitored for that package.

[Table H-2](#) lists the contents of `sysApplInstallElmtTable`.

**Table H-2** `sysApplInstallElmtTable`

MIB Row Entry	Description from the MIB	Usage
<code>sysApplInstallPkgIndex</code>	Part of the index for this table. This value identifies the installed software package for the application of which this process is a part.	Value from <a href="#">sysApplInstallPkgTable</a> , <a href="#">Table H-1</a> .
<code>sysApplInstallElmtIndex</code>	Unique number across the applications.	Running number.
<code>sysApplInstallElmtName</code>	The name assigned to the software element package by the manufacturer.	Process name used in the CiscoWorks daemon manager (not a file or executable name as specified in RFC 2287).
<code>sysApplInstallElmtType</code>	The type of element that is part of the installed application.	Default application(5).
<code>sysApplInstallElmtDate</code>	The date and time that this component was installed on the system.	<b>Note</b> All dates and times are formatted using SNMPv2 textual conventions.
<code>sysApplInstallElmtPath</code>	Install location for this application.	<i>NMSROOT</i> —Directory where Operations Manager is installed. If you selected the default directory during installation, it is <code>C:\Program~1\CSCOpX</code> .
<code>sysApplInstallInstallElmtSizeHigh</code>	The installed file size in $2^{32}$ byte blocks.	Default 0 (not implemented).
<code>sysApplInstallInstallElmtSizeLow</code>	The installed file size in $2^{32}$ byte blocks.	Default 0 (not implemented).
<code>sysApplInstallElmtRole</code>	An operator-assigned value used in the determination of application status.	Value used in determining application status: <ul style="list-style-type: none"> <li>required(3)—Process that must run for the application to be considered running.</li> <li>unknown(5)—Optional process.</li> </ul>
<code>sysApplInstallElmtModifyDate</code>	The date and time that this element was last modified.	<b>Note</b> All dates and times are formatted using SNMPv2 textual conventions.
<code>sysApplInstallCurSizeHigh</code>	The current file size in $2^{32}$ byte blocks.	Default 0 (not implemented).
<code>sysApplInstallCurSizeLow</code>	The current file size in $2^{32}$ byte blocks.	Default 0 (not implemented).

## Package Status Information

[Table H-3](#) supplies current application status for Operations Manager.

Table H-3 *sysAppRunTable*

MIB Row Entry	Description from the MIB	Usage
sysAppInstallPkgIndex	Part of the index for this table. This value identifies the installed software package for the application of which this process is a part.	Value from <a href="#">sysAppInstallPkgTable</a> , <a href="#">Table H-1</a> .
sysAppRunIndex	Part of the index for this table. An arbitrary integer used only for indexing purposes. Generally, monotonically increasing from 1 as new applications are started on the host, it uniquely identifies application invocations.	Running number.
sysAppRunStarted	The date and time that the application was started.	<b>Note</b> All dates and times are formatted using SNMPv2 textual conventions.
sysAppRunCurrentState	The current state of the running application instance. The possible values are running(1), runnable(2) but waiting for a resource such as CPU, waiting(3) for an event, exiting(4), or other(5).	This value is the measure of application health: <ul style="list-style-type: none"> <li>• running(1)—All required processes are running.</li> <li>• other(5)—One or more required processes are not running.</li> </ul> When all required processes stop or the CiscoWorks daemon manager stops, this entry moves to the sysAppPastRun table.

## Element Status Information

[Table H-4](#) provides current status for processes that belong to each application that is currently running.

Table H-4 *sysAppElmtRunTable*

MIB Row Entry	Description from the MIB	Usage
sysAppElmtRunInstallPkg	Part of the index for this table. This value identifies the installed software package for the application of which this process is a part.	Value from <a href="#">sysAppInstallPkgTable</a> , <a href="#">Table H-1</a> .
sysAppElmtRunInvocID	Part of the index for this table. This value identifies the invocation of an application of which this process is a part.	Default 0. <b>Note</b> Operations Manager processes run independently and are not invoked by any other process.
sysAppElmtRunIndex	Part of the index for this table. A unique value for each process running on the host.	Process ID in the operating system.

Table H-4 *sysAppElmtRunTable (continued)*

MIB Row Entry	Description from the MIB	Usage
sysAppElmtRunInstallID	Part of the index for this table. The value of this object is the same value as sysAppInstallElmtIndex for the application element of which this entry represents a running instance.	Value from <a href="#">sysAppInstallElmtTable, Table H-2</a> .
sysAppElmtRunTimeStarted	The time the process was started.	—
sysAppElmtRunState	The current state of the running process. The possible values are running(1), runnable(2) but waiting for a resource such as CPU, waiting(3) for an event, exiting(4), or other(5).	If all processes are running successfully, value is running(1). <b>Note</b> If the process terminates, the process entry moves to the sysElmtPastRun table.
sysAppElmtRunName	The full path and filename of the process.	—
sysAppElmtRunParameters	The starting parameters for the process.	—
sysAppElmtRunCPU	Hundredths of a second of the total system CPU resources consumed by this process.	Obtained from the operating system.
sysAppElmtRunMemory	The total amount of real system memory, measured in kilobytes, currently allocated to this process.	Obtained from the operating system.
sysAppElmtRunNumFiles	The number of regular files that the process currently has open.	Default 0 (not implemented).
sysAppElmtRunUser	The process owner's login name.	Either casuser or SYSTEM.

## Status of Packages when They Ran Previously

[Table H-5](#) contains the status of applications when they ran previously.

Table H-5 *sysAppIPastRunTable*

MIB Row Entry	Description from the MIB
sysAppInstallPkgIndex	Value from <a href="#">sysAppInstallPkgTable, Table H-1</a> .
sysAppIPastRunIndex	Part of the index for this table. An arbitrary integer used only for indexing purposes. Generally monotonically increasing from 1 as new applications are started on the host, it uniquely identifies application invocations.
sysAppIPastRunStarted	The date and time that the application started. <b>Note</b> All dates and times are formatted using SNMPv2 textual conventions.
sysAppIPastExitState	The state of the application instance when it was terminated.
sysAppIPastRunEnded	The date and time the application instance was determined to be no longer running. <b>Note</b> All dates and times are formatted using SNMPv2 textual conventions.

## Status of Elements when They Ran Previously

Table H-6 contains the status of processes when they ran previously.

**Table H-6** *sysAppElmtPastRunTable*

MIB Row Entry	Description from the MIB
sysAppElmtPastRunInvocID	Part of the index for this table. Identifies the invocation of an application of which this process is a part.
sysAppElmtPastRunIndex	Part of the index for this table. A unique value for each process running on the host.
sysAppElmtPastRunInstallID	Part of the index for this table. The value of this object is the same value as the sysAppInstallElmtIndex for the application element of which this entry represents a running instance.
sysAppElmtPastRunTime Started	The time the process was started.
sysAppElmtPastRunTime Ended	The time the process was ended.
sysAppElmtPastRunName	The full path and filename of the process.
sysAppElmtPastRunParameters	The starting parameters for the process.
sysAppElmtPastRunCPU	The last known number of hundredths of a second of the total system CPU resources consumed by this process.
sysAppElmtPastRunMemory	The last known total amount of real system memory, measured in kilobytes, allocated to this process before it terminated.
sysAppElmtPastRunNumFiles	The number of regular files that the process currently has open.
sysAppElmtPastRunUser	The process owner's login name.

## Scalar Variables

These variables are used to control MIB table size. You cannot update them.

**Table H-7** *Scalars*

MIB Row Entry	Description from the MIB	Default Value
sysApplPastRunMaxRows	Maximum number of entries allowed in the sysApplPastRun table.	2000
sysApplPastRunTableRemItems	Counter for entries removed from the sysApplPastRun table after the maximum number (sysApplPastRunMaxRows) of entries are exceeded.	20 entries
sysApplPastRunTblTimeLimit	Maximum time that an entry in the sysApplPastRun table can exist before being removed.	86400 seconds (1 day)
sysApplElemPastRunMaxRows	Maximum number of entries allowed in the sysApplElmtPastRun table.	2000 entries
sysApplElemPastRunTableRemItems	Counter for entries removed from the sysApplElmtPastRun table after the maximum number (sysApplElemPastRunMaxRows) of entries are exceeded.	20 entries

Table H-7 Scalars (continued)

MIB Row Entry	Description from the MIB	Default Value
SysAppElemPastRunTblTimeLimit	Maximum time that an entry in the sysAppElmtPastRunTable can exist before being removed.	86400 seconds (1 day)
sysApplAgentPollInterval	Minimum interval at which polling to obtain the status of the managed resources occurs.	60 seconds

## Process Map

The sysApplMapTable contains one entry for each process currently running on the system. Table H-8 provides the index mapping from a process identifier to the invoked application, installed element, and installed application package.

Table H-8 sysApplMapTable

MIB Row Entry	Description from the MIB
sysAppElmtRunIndex	Process identification number.
sysAppElmtRunInvocID	Invoked application (sysApplRunIndex).
sysApplMapInstallElmtIndex	Installed element (sysApplInstallElmtIndex).
sysApplMapInstallPkgIndex	Installed application package (sysApplInstallPkgIndex).

## Sample MIB Walk for System Application MIB

This example shows abridged output from a MIB walk of the SYS-APPL-MIB on a system where Operations Manager and Service Monitor are installed.

```
***** SNMP QUERY STARTED *****
1: sysApplInstallPkgManufacturer.1 (octet string) Copyright (c) 2004 by Cisco Systems,
   Inc.
   [43.6F.70.79.72.69.67.68.74.20.28.63.29.20.32.30.30.34.20.62.79.20.43.69.73.63.6F.20.5
   3.79.73.74.65.6D.73.2C.20.49.6E.63.2E (hex)]
2: sysApplInstallPkgManufacturer.2 (octet string) Copyright (c) 2004 by Cisco Systems,
   Inc.
   [43.6F.70.79.72.69.67.68.74.20.28.63.29.20.32.30.30.34.20.62.79.20.43.69.73.63.6F.20.5
   3.79.73.74.65.6D.73.2C.20.49.6E.63.2E (hex)]
3: sysApplInstallPkgProductName.1 (octet string) IP Communications Service Monitor
   [49.50.20.43.6F.6D.6D.75.6E.69.63.61.74.69.6F.6E.73.20.53.65.72.76.69.63.65.20.4D.6F.6
   E.69.74.6F.72 (hex)]
4: sysApplInstallPkgProductName.2 (octet string) IP Communications Operations Manager
   [49.50.20.43.6F.6D.6D.75.6E.69.63.61.74.69.6F.6E.73.20.4F.70.65.72.61.74.69.6F.6E.73.2
   0.4D.61.6E.61.67.65.72 (hex)]
5: sysApplInstallPkgVersion.1 (octet string) 1.0.0 [31.2E.30.2E.30 (hex)]
6: sysApplInstallPkgVersion.2 (octet string) 2.0.0 [32.2E.30.2E.30 (hex)]
7: sysApplInstallPkgSerialNumber.1 (octet string) n/a [6E.2F.61 (hex)]
8: sysApplInstallPkgSerialNumber.2 (octet string) n/a [6E.2F.61 (hex)]
9: sysApplInstallPkgDate.1 (octet string) 2005-8-30,21:18:32 [07.D5.08.1E.15.12.20 (hex)]
10: sysApplInstallPkgDate.2 (octet string) 2005-8-30,21:18:32 [07.D5.08.1E.15.12.20 (hex)]
11: sysApplInstallPkgLocation.1 (octet string) D:\PROGRA~1\CSCOpX
   [44.3A.5C.50.52.4F.47.52.41.7E.31.5C.43.53.43.4F.70.78 (hex)]
12: sysApplInstallPkgLocation.2 (octet string) D:\PROGRA~1\CSCOpX
   [44.3A.5C.50.52.4F.47.52.41.7E.31.5C.43.53.43.4F.70.78 (hex)]
13: sysApplInstallElmtName.1.1 (octet string) QOVR [51.4F.56.52 (hex)]
```

14: sysApplInstallElmtName.1.2 (octet string) QOVRDbEngine  
[51.4F.56.52.44.62.45.6E.67.69.6E.65 (hex)]

15: sysApplInstallElmtName.1.3 (octet string) QOVRDbMonitor  
[51.4F.56.52.44.62.4D.6F.6E.69.74.6F.72 (hex)]

16: sysApplInstallElmtName.1.4 (octet string) Apache [41.70.61.63.68.65 (hex)]

17: sysApplInstallElmtName.1.5 (octet string) CmfDbEngine  
[43.6D.66.44.62.45.6E.67.69.6E.65 (hex)]

18: sysApplInstallElmtName.1.6 (octet string) JRunProxyServer  
[4A.52.75.6E.50.72.6F.78.79.53.65.72.76.65.72 (hex)]

19: sysApplInstallElmtName.1.7 (octet string) Tomcat [54.6F.6D.63.61.74 (hex)]

20: sysApplInstallElmtName.1.8 (octet string) WebServer [57.65.62.53.65.72.76.65.72 (hex)]

21: sysApplInstallElmtName.2.9 (octet string) AdapterServer  
[41.64.61.70.74.65.72.53.65.72.76.65.72 (hex)]

22: sysApplInstallElmtName.2.10 (octet string) Apache [41.70.61.63.68.65 (hex)]

23: sysApplInstallElmtName.2.11 (octet string) CmfDbEngine  
[43.6D.66.44.62.45.6E.67.69.6E.65 (hex)]

24: sysApplInstallElmtName.2.12 (octet string) DCRServer [44.43.52.53.65.72.76.65.72  
(hex)]

25: sysApplInstallElmtName.2.13 (octet string) DfmBroker [44.66.6D.42.72.6F.6B.65.72  
(hex)]

26: sysApplInstallElmtName.2.14 (octet string) DfmServer [44.66.6D.53.65.72.76.65.72  
(hex)]

27: sysApplInstallElmtName.2.15 (octet string) EDS [45.44.53 (hex)]

28: sysApplInstallElmtName.2.16 (octet string) EPMDbEngine  
[45.50.4D.44.62.45.6E.67.69.6E.65 (hex)]

29: sysApplInstallElmtName.2.17 (octet string) EPMServer [45.50.4D.53.65.72.76.65.72  
(hex)]

30: sysApplInstallElmtName.2.18 (octet string) ESS [45.53.53 (hex)]

31: sysApplInstallElmtName.2.19 (octet string) FHDbEngine [46.48.44.62.45.6E.67.69.6E.65  
(hex)]

32: sysApplInstallElmtName.2.20 (octet string) FHServer [46.48.53.65.72.76.65.72 (hex)]

33: sysApplInstallElmtName.2.21 (octet string) GPF [47.50.46 (hex)]

34: sysApplInstallElmtName.2.22 (octet string) INVDbEngine  
[49.4E.56.44.62.45.6E.67.69.6E.65 (hex)]

35: sysApplInstallElmtName.2.23 (octet string) IVR [49.56.52 (hex)]

36: sysApplInstallElmtName.2.24 (octet string) IPIUDbEngine  
[49.50.49.55.44.62.45.6E.67.69.6E.65 (hex)]

37: sysApplInstallElmtName.2.25 (octet string) IPLAServer  
[49.50.53.4C.41.53.65.72.76.65.72 (hex)]

38: sysApplInstallElmtName.2.26 (octet string) ITMDiagServer  
[49.54.4D.44.69.61.67.53.65.72.76.65.72 (hex)]

39: sysApplInstallElmtName.2.27 (octet string) Interactor [49.6E.74.65.72.61.63.74.6F.72  
(hex)]

40: sysApplInstallElmtName.2.28 (octet string) InventoryCollector  
[49.6E.76.65.6E.74.6F.72.79.43.6F.6C.6C.65.63.74.6F.72 (hex)]

41: sysApplInstallElmtName.2.29 (octet string) IPIUDataServer  
[49.50.49.55.44.61.74.61.53.65.72.76.65.72 (hex)]

42: sysApplInstallElmtName.2.30 (octet string) ITMOGSServer  
[49.54.4D.4F.47.53.53.65.72.76.65.72 (hex)]

43: sysApplInstallElmtName.2.31 (octet string) jrm [6A.72.6D (hex)]

44: sysApplInstallElmtName.2.32 (octet string) LicenseServer  
[4C.69.63.65.6E.73.65.53.65.72.76.65.72 (hex)]

45: sysApplInstallElmtName.2.33 (octet string) NOTSServer [4E.4F.54.53.53.65.72.76.65.72  
(hex)]

46: sysApplInstallElmtName.2.34 (octet string) PTMServer [50.54.4D.53.65.72.76.65.72  
(hex)]

47: sysApplInstallElmtName.2.35 (octet string) PIFServer [50.49.46.53.65.72.76.65.72  
(hex)]

48: sysApplInstallElmtName.2.36 (octet string) QoVMServer [51.6F.56.4D.53.65.72.76.65.72  
(hex)]

49: sysApplInstallElmtName.2.37 (octet string) SRSTServer [53.52.53.54.53.65.72.76.65.72  
(hex)]

50: sysApplInstallElmtName.2.38 (octet string) SIRServer [53.49.52.53.65.72.76.65.72  
(hex)]



```
51: sysApplInstallElmtName.2.39 (octet string) STServer [53.54.53.65.72.76.65.72 (hex)]
52: sysApplInstallElmtName.2.40 (octet string) Tomcat [54.6F.6D.63.61.74 (hex)]
53: sysApplInstallElmtName.2.41 (octet string) TISServer [54.49.53.53.65.72.76.65.72
(hex)]
54: sysApplInstallElmtName.2.42 (octet string) TopoServer [54.6F.70.6F.53.65.72.76.65.72
(hex)]
55: sysApplInstallElmtName.2.43 (octet string) VsmServer [56.73.6D.53.65.72.76.65.72
(hex)]
56: sysApplInstallElmtName.2.44 (octet string) VHMIntegrator
[56.48.4D.49.6E.74.65.67.72.61.74.6F.72 (hex)]
57: sysApplInstallElmtName.2.45 (octet string) VHMServer [56.48.4D.53.65.72.76.65.72
(hex)]
58: sysApplInstallElmtName.2.46 (octet string) ITMCTMStartup
[49.54.4D.43.54.4D.53.74.61.72.74.75.70 (hex)]
59: sysApplInstallElmtName.2.47 (octet string) IPSLAPurgeTask
[49.50.53.4C.41.50.75.72.67.65.54.61.73.6B (hex)]
60: sysApplInstallElmtName.2.48 (octet string) GpfPurgeTask
[47.70.66.50.75.72.67.65.54.61.73.6B (hex)]
61: sysApplInstallElmtName.2.49 (octet string) FHPurgeTask
[46.48.50.75.72.67.65.54.61.73.6B (hex)]
62: sysApplInstallElmtType.1.1 (integer) application(5)

111: sysApplInstallElmtDate.1.1 (octet string) 2005-8-30,21:18:32 [07.D5.08.1E.15.12.20
(hex)]
112: sysApplInstallElmtDate.1.2 (octet string) 2005-8-30,21:18:32 [07.D5.08.1E.15.12.20
(hex)]

160: sysApplInstallElmtPath.1.1 (octet string) D:\PROGRA~1\CSCOpX
[44.3A.5C.50.52.4F.47.52.41.7E.31.5C.43.53.43.4F.70.78 (hex)]

209: sysApplInstallElmtSizeHigh.1.1 (integer) 0
258: sysApplInstallElmtSizeLow.1.1 (integer) 0
307: sysApplInstallElmtRole.1.1 (integer) required(3)
356: sysApplInstallElmtModifyDate.1.1 (octet string) 2005-8-30,21:18:32
[07.D5.08.1E.15.12.20 (hex)]
357: sysApplInstallElmtModifyDate.1.2 (octet string) 2005-8-30,21:18:32
[07.D5.08.1E.15.12.20 (hex)]
405: sysApplInstallElmtCurSizeHigh.1.1 (integer) 0
454: sysApplInstallElmtCurSizeLow.1.1 (integer) 0
503: sysApplRunStarted.1.4 (octet string) 2005-9-27,15:51:53 [07.D5.09.1B.0F.33.35 (hex)]
505: sysApplRunCurrentState.1.4 (integer) running(1)
507: sysApplPastRunStarted.1.2 (octet string) 2005-9-27,14:43:4 [07.D5.09.1B.0E.2B.04
(hex)]
509: sysApplPastRunExitState.1.2 (integer) complete(1)
511: sysApplPastRunTimeEnded.1.2 (octet string) 2005-9-27,15:43:42 [07.D5.09.1B.0F.2B.2A
(hex)]
513: sysApplElmtRunInstallID.0.0.2468 (integer) 0
569: sysApplElmtRunTimeStarted.0.0.2468 (octet string) 2005-9-27,15:54:12
[07.D5.09.1B.0F.36.0C (hex)]
```

```

625: sysAppElmtRunState.0.0.2468 (integer) running(1)

681: sysAppElmtRunName.0.0.2468 (octet string) D:\PROGRA~1\CSCOpX\bin\cwjava.exe
[44.3A.5C.50.52.4F.47.52.41.7E.31.5C.43.53.43.4F.70.78.5C.62.69.6E.5C.63.77.6A.61.76.6
1.2E.65.78.65 (hex)]

737: sysAppElmtRunParameters.0.0.2468 (octet string) -DNMSROOT=D:\PROGRA~1\CSCOpX -cp:a
lib\classpath\servlet.jar -Dvbroker.agent.port=42342
com.inprise.vbroker.gatekeeper.GateKeeper -props
D:\PROGRA~1\CSCOpX\lib\vbroker\gatekeeper.cfg
[2D.44.4E.4D.53.52.4F.4F.54.3D.44.3A.5C.50.52.4F.47.52.41.7E.31.5C.43.53.43.4F.70.78.2
0.2D.63.70.3A.61.20.6C.69.62.5C.63.6C.61.73.73.70.61.74.68.5C.73.65.72.76.6C.65.74.2E.
6A.61.72.20.2D.44.76.62.72.6F.6B.65.72.2E.61.67.65.6E.74.2E.70.6F.72.74.3D.34.32.33.34
.32.20.63.6F.6D.2E.69.6E.70.72.69.73.65.2E.76.62.72.6F.6B.65.72.2E.67.61.74.65.6B.65.6
5.70.65.72.2E.47.61.74.65.4B.65.65.70.65.72.20.2D.70.72.6F.70.73.20.44.3A.5C.50.52.4F.
47.52.41.7E.31.5C.43.53.43.4F.70.78.5C.6C.69.62.5C.76.62.72.6F.6B.65.72.5C.67.61.74.65
.6B.65.65.70.65.72.2E.63.66.67 (hex)]

793: sysAppElmtRunCPU.0.0.2468 (timeticks) 0 days 00h:00m:03s.33th (333)

849: sysAppElmtRunMemory.0.0.2468 (integer) 4716

905: sysAppElmtRunNumFiles.0.0.2468 (integer) 0

961: sysAppElmtRunUser.0.0.2468 (octet string) casuser [63.61.73.75.73.65.72 (hex)]

1017: sysAppElmtPastRunInstallID.0.0.1132 (integer) 0

1064: sysAppElmtPastRunTimeStarted.0.0.1132 (octet string) 2005-9-27,14:43:45
[07.D5.09.1B.0E.2B.2D (hex)]

1111: sysAppElmtPastRunTimeEnded.0.0.1132 (octet string) 2005-9-27,15:43:42
[07.D5.09.1B.0F.2B.2A (hex)]

1158: sysAppElmtPastRunName.0.0.1132 (octet string) D:\PROGRA~1\CSCOpX\bin\cwjava.exe
[44.3A.5C.50.52.4F.47.52.41.7E.31.5C.43.53.43.4F.70.78.5C.62.69.6E.5C.63.77.6A.61.76.6
1.2E.65.78.65 (hex)]

1206: sysAppElmtPastRunParameters.0.0.2060 (octet string) itemIpiu -app IPIUdbMonitor
-dbserver IPIUdbEngine -sleep 1200 -error 90 -retry 10 -sterror 10 -stretry 5
[69.74.65.6D.49.70.69.75.20.2D.61.70.70.20.49.50.49.55.44.62.4D.6F.6E.69.74.6F.72.20.2
D.64.62.73.65.72.76.65.72.20.49.50.49.55.44.62.45.6E.67.69.6E.65.20.2D.73.6C.65.65.70.
20.31.32.30.30.20.2D.65.72.72.6F.72.20.39.30.20.2D.72.65.74.72.79.20.31.30.20.2D.73.74
.65.72.72.6F.72.20.31.30.20.2D.73.74.72.65.74.72.79.20.35 (hex)]

1252: sysAppElmtPastRunCPU.0.0.1132 (timeticks) 0 days 00h:00m:00s.26th (26)

1299: sysAppElmtPastRunMemory.0.0.1132 (integer) 7488

1346: sysAppElmtPastRunNumFiles.0.0.1132 (integer) 0

1393: sysAppElmtPastRunUser.0.0.1132 (octet string) casuser [63.61.73.75.73.65.72 (hex)]

1440: sysAppElmtPastRunMaxRows.0 (integer) 2000
1441: sysAppElmtPastRunTableRemItems.0 (integer) 20
1442: sysAppElmtPastRunTblTimeLimit.0 (integer) 86400
1443: sysAppElmtPastRunMaxRows.0 (integer) 2000
1444: sysAppElmtPastRunTableRemItems.0 (integer) 20
1445: sysAppElmtPastRunTblTimeLimit.0 (integer) 86400
1446: sysAppElmtAgentPollInterval.0 (integer) 60
1447: sysAppElmtMap.2.752.0.1 (integer) 1

1502: sysAppElmtMap.2.10596.0.9 (integer) 2
***** SNMP QUERY FINISHED *****

```