MP Instance Provider

Provider overview

The Management Processor Instance Provider retrieves information related to the Management Processor (MP) of the system.

Description

The MP Instance Provider is a Web-based Enterprise Management (WBEM) Instance Provider that retrieves MP information from HP Integrity Servers, running HP OpenVMS. This provider is compliant with the Common Information Model (CIM) 2.8 Schema, proposed by the Distributed Management Task Force (DMTF). The provider requires HP WBEM Services for HP OpenVMS installed on the system.

The MP Instance Provider allows any client, compliant with the CIM 2.8 Schema, to query for information about the managed system's MP.

The MP Instance Provider implements MP related CIM classes, proposed in the DMTF CIM 2.8 revision. In addition to the properties that belong to the standard CIM classes, the MP Instance Provider serves information that is specific to HP Servers, by implementing HP-specific CIM classes, derived from the standard DMTF classes.

The following MOF classes are handled by the MP Instance Provider:

- HP_ManagementProcessor
- HP_ManagementProcessor (subclass of CIM_ComputerSystem) contains MP related information.

The MOF classes mentioned above (i.e. all MOF classes prefixed with "HP_") are HP-specific extensions to the CIM Schema, and are registered in the "root/cimv2" namespace.

For all the MOF classes mentioned above, the MP Instance Provider supports the following standard CIM Operations:

- enumerateInstanceNames()
- enumerateInstances()
- getInstance()

The following CIM operations are not supported by the MP Instance Provider:

- createInstance()
- deleteInstance()
- modifyInstance()

MP Instance Provider is not a CIM Method Provider, and does not support extrinsic method invocation on instances on any of the MOF classes mentioned above. The invocation of any of these methods will result in a CIM_ERR_NOT_SUPPORTED exception.

requirements

The provider requires HP WBEM Services for OpenVMS.

release history

- HP I64VMS WBEMPROVIDERS V1.7-16 (May 2009)
- HP I64VMS WBEMPROVIDERS V2.0-4 (June 2010)
- HP I64VMS WBEMPROVIDERS V2.1-4 (August 2010)
- HP I64VMS WBEMPROVIDERS V2.2-3 (February 2011)

supported managed resources

This provider retrieves information related to the MP present on the system.

Note that the MP Instance Provider retrieves only the information about the above resources. It does not retrieve any management, diagnostic or configuration capabilities for the above resources.

setting up this provider

installing this provider

The installation of HP WBEM Providers will set up this provider. Ensure HP WBEM Services is already installed.

On installation, executable binaries, configuration files and MOF definition and registration files will be available in their respective directory, as follows:

- The CIM MOF file, containing the definitions of the HP-specific MOF classes, (namely HP_ManagementProcessor.mof) will be available in SYS$COMMON:[WBEMPROVIDERS.MOF]. This directory will also include the provider registration file, namely MPProviderR.mof. Note: All the HP-specific MOF classes will be registered under the "root/cimv2" namespace.
- The SYS$SPECIFIC:[WBEMPROVIDERS] directory will contain the configuration files of the WBEM Providers Product.
- The WBEM Services SYS$SPECIFIC:[WBEM_Services]CIMSERVER_STARTUP.LOG log file will contain logs generated during the execution of this provider. By editing the "Severity" property in the SYS$SPECIFIC:[WBEMPROVIDERS]FMLOGGERCONFIG.TXT file different levels of messages in the SYS$SPECIFIC:[WBEM_SERVICES]CIMSERVER.LOG can be generated. The valid values are TRACE, DEBUG, INFORMATIONAL, WARNING, ERROR, CRITICAL, STOPLOGGING.

Configuring this provider

This provider does not accept specific configuration adjustments (beyond standard WBEM support).

using this provider

schema supported by this provider

The "Description" section explains in brief the different MOF classes supported by MP Instance Provider. The following tables list all the supported properties corresponding to these MOF classes, along with the properties inherited from the standard CIM MOF classes, as per CIM 2.8 schema specifications.

Table 1: MP Instance Provider properties

Property name	*Property inheritance*	*Property value (and data source)*
uint16ControllerType	Inherited from HP_ManagementProcessor	The Management Processor model/type: 0=Unknown 1=Other 2=PCI Board, RILOE II 3=Embedded iLO 4=Embedded iLO2 5=Embedded Integrity MP 6=Embedded Integrity iLO 7=Embedded Integrity iLO2 See section 7.1.1
string OtherControllerType	Inherited from HP_ManagementProcessor	Describing text when ControllerType property is set to 1=Other
String UniqueIdentifier [Key]	Inherited from HP_ManagementProcessor	An identifier which uniquely distinguishes the management processor controller from any other MP hardware
string IPAddress	Inherited from HP_ManagementProcessor	The IP Address(s) of the management processor controller's network interface controller (NIC).
string URL	Inherited from HP_ManagementProcessor	The Uniform Resource Locator(s) of the management processor controller's user interface
uint16 Dedicated	Inherited from CIM_ComputerSystem	Value = 14, 'Management'
string CreationClassName	Inherited from CIM_System	returns "HP_ManagementProcessor"
string Name	Inherited from CIM_System	returns "Management Processor"

uint16EnabledState	Inherited from CIM_EnabledLogicalElement	The operating state of the MP: 2=Enabled 3=Disabled
string OperationalStatus[]	Inherited from CIM_ManagedSystemElement	Open VMS:uint16 [0] = Overall MP status: 0=Unknown 2=OK 3=Degraded 6=Error

Intrinsic methods for all the CIM classes supported by MP Instance Provider

This table describes the intrinsic methods supported by this provider. It has three columns. The first is the method name, the second is a description of the provider's actions based on invoking that method, and the third is a list of any exceptions that could result from invoking the method. Each row describes a method.

Method name	***description***	***exceptions thrown***
enumerateInstances	Returns all instances of class with values of supported properties. (See tables above.)	
enumerateInstanceNames	Returns object path of all instances of class.	
getInstance	Returns an instance that matches the keys with values of supported properties. (See table above.)	
modifyInstance	This operation is not supported by the MP Instance Provider. This is indicated to the client, via exceptions.	CIMNotSupportedException
deleteInstance	This operation is not supported by the MP Instance Provider. This is indicated to the client, via exceptions.	CIMNotSupportedException
createInstance	This operation is not supported by the MP Instance Provider. This is indicated to the client, via exceptions.	CIMNotSupportedException

indications generated by this provider This Provider does not generate any indications.

Related Documentation

- **WBEM information**
  - For a CIM tutorial, go to http://www.dmtf.org/education/tutorials
  - For information about HP WBEM Services go to http://h71000.www7.hp.com/openvms/products/wbem/wbem_index.html.
  - HP WBEM Providers Release Notes bundled with the WBEM Providers kit.
  - HP WBEM Providers Installation and Administrator's Guide bundled with the WBEM Providers kit.

For additional information on HP products and services, visit us at http://www.hp.com.

For the location of the nearest sales office, call:

United States: +1 800 637 7740

Canada: +1 905 206 4725

Japan: +81 3 3331 6111

Latin America: +1 305 267 4220

Australia/New Zealand: +61 3 9272 2895

Asia Pacific: +8522 599 7777

Europe/Africa/Middle East: +41 22 780 81 11

For more information, contact any of our worldwide sales offices or HP Channel Partners (in the U.S., call 1 800 637 7740).

02/2011