

1 HP Insight Management WBEM IML Record Log Provider Overview

Description The HP Insight Management Web-Based Enterprise Management (WBEM) Integrated Management Log (IML) provider implements the server management record log.

This provider implements the following profiles and installs the necessary files:

Profile Name	Organization	Version
HP Record Log Profile (P00109)	HP WBEM TC	1.0

For each hardware architecture listed, this provider requires the following distributions

Requirements SLES 11 and later
HP ProLiant managed servers RHEL 5.3 and later

Release History Initial release with HP Insight Management WBEM Providers for Linux v2.0.

1-1 Setting Up the Provider

Installing the Provider There are no special installation instructions for this provider. It is installed by default as part of the HP Insight Management WBEM providers.

Configuring the Provider This provider does not accept specific configuration adjustments beyond standard HP Insight Management WBEM support.

1-2 Using the Provider

Namespaces Supported by the Provider This provider returns instances in the root/hpq namespace.

This provider supports the following classes:

Schema Supported by the Provider

- SMX_IMLRecordLog
- SMX_IMLLogEntry
- SMX_IMLLogManagesRecord
- SMX_IMLUseOfLog

The tables in the following sections describe the properties of the supported classes. The classes are categorized by the class or superclass that defines the property, the first column is the Property Name (including type and units) and the second column describes how the provider determines the properties implementation. When the Property Implementation value is a number, the number given is the default behavior and the Managed Object Format interpretation is within parenthesis. If other values are returned, a problem is indicated.

Unless otherwise noted, all of the property implementation values given are for HP ProLiant and HP Integrity (cellular and non-cellular) systems. The location related properties and implementation values are determined based on the server type so they may differ.

1-2-1 SMX_IMLRecordLog Class

The SMX_IMLRecordLog class implements the HP_CommonRecordLog class to model the server management record log.

The following table lists the properties implemented.

Property Name	Property Implementation
CIM_ManagedElement	
Caption	IML record log
Description	Integrated Management Log
ElementName	IML record log
CIM_ManagedSystemElement	
Name	IML record log
OperationalStatus	OperationalStatus[0] indicates the highest severity of IML log entries and will contain one of the following: 2 (OK), only informational or repaired events exist in the IML log 3 (Degraded), at least one degraded event exists in the IML log 6 (Error), at least one critical event exists in the IML log
StatusDescriptions	StatusDescriptions[0] will contain one of the following corresponding to OperationalStatus[0]: IML log has no critical or degraded events IML log has at least one degraded event IML log has at least one critical event
HealthState	5 (OK), when OperationalStatus[0]=2 (OK) 10 (Degraded), when OperationalStatus[0]=3 (Degraded) 20 (Major Failure), when OperationalStatus[0]=6 (Error)

Property Name	Property Implementation
CIM_LogicalElement	
CIM_EnabledLogicalElement	
EnabledState	2 (Enabled)
RequestedState	5 (No Change)
EnabledDefault	2 (Enabled)
CIM_Log	
MaxNumberOfRecords	0 (Indicates variable length records. There is no maximum number of records in the IML – there will be as many variable length records as will fit in the IML non-volatile memory.)
CurrentNumberOfRecords	Number of records in the IML log (SMX_IMLLogEntry instances.)
LogState	2 (Normal)
OverwritePolicy	2 (Wraps When Full) The IML entries will fill up available IML non-volatile memory space until no room is left. The oldest log entries will then be deleted as needed to create room for new log entries.
CIM_RecordLog	
InstanceID	HPQ:SMX_IMLRecordLog:1
HP_CommonRecordLog	
TimeOfLastChange	Time of last log change.

The following table lists the methods implemented for the SMX_IMLRecordLog class.

Method Name	Method Implementation
ClearLog	Refer to <i>HP Record Log profile (P00109)</i>
RepairAll	Refer to <i>HP Record Log profile (P00109)</i> .

1-2-2 SMX_IMLLogEntry Class

The SMX_IMLLogEntry class implements the HP_CommonLogEntry class to model logs records within the IML log.

The following table lists the properties implemented.

Property Name	Property Implementation
CIM_ManagedElement	
Caption	IML record log entry <RecordID> Where: <RecordID> is the SMX_IMLLogEntry.RecordID for the event.
Description	Description based on specific IML log event.
ElementName	IML record log entry <RecordID> Where: RecordID is the SMX_IMLLogEntry.RecordID for the event.
CIM_RecordForLog	
CIM_LogEntry	
InstanceID	HPQ:SMX_IMLLogEntry:<n> Where: <n> is the IML event number.
LogInstanceID	SMX_IMLRecordLog.InstanceID
LogName	SMX_IMLRecordLog.Name
RecordID	IML event number.
CreationTimeStamp	IML log event creation time stamp.
HP_CommonLogEntry	
RecordDataType	3 (Delimited)
RawData	IML log event raw data.
MajorClass	18 (IML)
MinorClass	2 (None)
UpdateTimeStamp	IML log event update time stamp.
OccurrenceCount	Number of occurrences of this same IML event type.
Severity	0 (Unknown) 2 (Information) 3 (Repaired) 4 (Degraded/Warning) 7 (Critical)

Property Name	Property Implementation
OSType	0 (Unknown) 36 (Linux) 39 (VMware)
SystemSerialNumber	System serial number string from SMBIOS.
SystemProductID	System product ID string from SMBIOS.
SystemModel	System model number string from SMBIOS.
SystemName	Computer system name
VendorID	0 (Unknown) 3 (HP) 5 (Compaq)
ServerHardwareArchitecture	0 (Unknown) 7 (x86-32) 10 (x86-64)
LoggerType	2 (Server)

The following table lists the methods implemented for the SMX_IMLLogEntry class.

Method Name	Method Implementation
Repair	Refer to <i>HP Record Log profile (P00109)</i> .

1-2-3 SMX_IMLLogManagesRecord Class

The SMX_IMLLogManagesRecord class implements the HP_LogManagesRecord class and associates instances of SMX_IMLRecordLog and SMX_IMLLogEntry.

The following table lists the properties implemented.

Property Name	Property Implementation
CIM_LogManagesRecord	
HP_LogManagesRecord	
Log	References SMX_IMLRecordLog
Record	References SMX_IMLLogEntry

1-2-4 SMX_IMLUseOfLog Class

The SMX_IMLUseOfLog class implements the HP_UseOfLog class and associates the instance of SMX_ComputerSystem with the instance of SMX_IMLRecordLog.

The following table lists the properties implemented.

Property Name	Property Implementation
CIM_Dependency	
CIM_UseOfLog	
HP_UseOfLog	
Antecedent	References SMX_IMLRecordLog
Dependent	References SMX_ComputerSystem