

Dell Inc.

# **INTEGRATING DELL™ OPENMANAGE™ CLIENT INSTRUMENTATION WITH MICROSOFT® SYSTEM CENTER CONFIGURATION MANAGER**

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## Executive Summary

Dell OpenManage Client Instrumentation (OMCI) is software that allows systems management application programs to access information about the client computer, monitor the status of the client computer, or change the state of the computer, such as shutting it down remotely. OMCI uses the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). These are industry standard systems management technologies defined by the Distributed Management Task Force (DMTF). Microsoft® Windows® Management Instrumentation (WMI) is Microsoft's implementation of CIM instrumentation. OMCI provides data to WMI, which is the common interface to WMI management applications.

Although OMCI has numerous features, its primary purpose is to package and provide access to information requested by WMI, which in turn provides the information to systems management application programs such as Microsoft System Center Configuration Manager (ConfigMgr).

The CIM schema is defined by a Managed Object Format (MOF) file, which provides a standardized model for describing management information between clients in a management system. A MOF file is not bound to a particular implementation, and it allows the interchange of management information between many different management systems and clients.

OMCI provides extensive information about your Dell client system, including the following:

- General system – Docking station and system summary
- Boot order
- BIOS configuration
- HDD – physical and logical attributes
- Hardware: battery, fans, Controllers (USB, infrared, parallel, SCSI, serial), PC cards, processors, memory, HIDs and displays, PCI devices, sensors, interrupts/DMA,
- Operating system information
- Automatic System Restart (ASR)

OMCI provides this information using a variety of data sources resident on the client computer:

- Microsoft Win32 WMI providers
- System management basic input/output system (SMBIOS)
- Device drivers
- Operating system registry
- Operating system Application Programming Interfaces (APIs)
- WMI Repository

This white paper explains how an IT administrator can exploit the information provided by OMCI within ConfigMgr to provide enhanced reporting for managed Dell business client platforms. This whitepaper assumes the reader is familiar with OMCI and its features and capabilities.

For more information on OMCI, refer to the OMCI whitepaper and reference guide available at:  
[http://www.dell.com/content/topics/global.aspx/sitelets/solutions/management/client\\_software?%20id=&c=us&cs=555&l=en&s=biz#1](http://www.dell.com/content/topics/global.aspx/sitelets/solutions/management/client_software?%20id=&c=us&cs=555&l=en&s=biz#1)

## Using OMCI in ConfigMgr

### Namespace Information

The namespace for access to the Dell OMCI classes is “root\DellOMCI”.

### How to Obtain OMCI Information in ConfigMgr

This whitepaper describes two ways that OMCI data may be made available in ConfigMgr. Appendix A shows how to inventory OMCI data for ConfigMgr. Appendices B and C extend the integration by providing a number of pre-defined ConfigMgr web reports and queries, as well as explaining how these may be exploited in the ConfigMgr console.

Appendix B contains a set of sample ConfigMgr web reports that correspond to the sample MOF in Appendix A. These reports are based on classes and properties enabled in the sample MOF. Appendix B explains how the sample queries can be compiled into the ConfigMgr site server using `mofcomp` and the MOF formatted samples queries or pasted into a new web report in the ConfigMgr console.

Appendix C contains example ConfigMgr queries based on the sample MOF in Appendix A.

For more information on extending ConfigMgr to report on OMCI data, refer to the following website:  
<http://www.delltechcenter.com/page/Using+OMCI+with+ConfigMgr>

### Key Acronyms

- ASF - Alert Standard Format
- CIM - Common Information Model
- CIMOM - CIM Object Manager
- COM/DCOM - Component Object Manager/Distributed Component Object Manager
- DMTF - Distributed Management Task Force
- MOF - Managed Object Format
- OMCI - OpenManage Client Instrumentation
- SNMP - Simple Network Management Protocol
- SMBIOS - System Management BIOS
- SMBus - System Management Bus
- WMI - Windows Management Instrumentation
- WSH - Windows Scripting Host

## Appendices

### Appendix A – Sample MOF

It is recommended that the following MOF information be copied into a text file and subsequently modified as required to provide the desired detail information. The text file should then be copied into the sms\_def.mof file. That way, when a new MOF is provided by Dell, you can compare the contents with your copy, make necessary changes, and save the new copy and copy the information into the sms\_def.mof file. Additionally, ConfigMgr will overwrite the sms\_def.mof file on upgrades and service packs. Keeping a separate, local Dell MOF will allow for easy replacement of the Dell information when ConfigMgr overwrites the sms\_def.mof (typically located in the %Program Files Folder%\sms\inboxes\clifiles.src\hinw directory). For more information on extending hardware inventory using the sms\_def.mof file, refer to the following website: <http://technet.microsoft.com/en-us/library/bb633227.aspx>

The following steps may be used to apply this sample MOF file to ConfigMgr and enable reporting:

1. Copy and paste this MOF into a txt file (example: c:\temp\OMCI\_SCCM.txt).
2. Modify the MOF to change any “FALSE” to “TRUE” (or vice versa) for the desired reporting within ConfigMgr. This step allows customization of reports to the level of detail required.  
NOTE: In order for a property to be collected for reporting purposes, the value of “SMS\_Report” for that property must be set to “TRUE”; additionally, the value of “SMS\_Report” for the class that contains the property must also be set to “TRUE” (see the sample MOF below for examples).
3. Save any changes.
4. Append the contents of this text file (c:\temp\OMCI\_SCCM.txt) to the end of the sms\_def.mof file. This file is typically located in the %Program Files Folder%\sms\inboxes\clifiles.src\hinw directory.

```
//=====
//
// OMCI_SCCM.txt - Sample MOF that maps SMS inventory set to that
//   provided by the Dell OMCI Provider - version 0001
//   for Dell OMCI version 7.6.0.735
//
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// SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
// HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
// STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
```

# Dell OpenManage Client Instrumentation

```
// IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
// POSSIBILITY OF SUCH DAMAGE.
//
// This sample MOF is provided as an example only. Dell provides no
// technical support with regard to content herein. For more information
// on MOF files, refer to applicable documentation.
//=====

//=====
// Define Dell classes for inventory reporting
//=====

[ SMS_Report(FALSE), SMS_Group_Name("Dell Indication Conf"),
SMS_Class_ID("DELL|INDICATIONCONFIGURATION|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\.\root\\DellOMCI") ]
class Dell_IndicationConfiguration : SMS_Class_Template
{
[SMS_Report (FALSE)] string Caption;
[SMS_Report (FALSE)] string Description;
[SMS_Report (FALSE)] boolean LocalOnly;
[SMS_Report (FALSE), Key] string Name;
[SMS_Report (FALSE)] boolean PollEnabled;
[SMS_Report (FALSE)] uint32 PollingInterval;
[SMS_Report (FALSE)] uint32 StartDelay;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell HDD Pwd Conf"),
SMS_Class_ID("DELL|HARDDISKDRIVEPASSWORDCONFIGURATION|1.0"),
SMS_Namespace(FALSE), Namespace("\\\\.\root\\DellOMCI") ]
class Dell_HardDiskDrivePasswordConfiguration : SMS_Class_Template
{
[SMS_Report (FALSE)] string HDDLocation;
[SMS_Report (FALSE)] uint8 HDDPasswordStatus;
[SMS_Report (FALSE), Key] string Name;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Configuration"),
SMS_Class_ID("DELL|CONFIGURATION|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\.\root\\DellOMCI") ]
class Dell_Configuration : SMS_Class_Template
{
[SMS_Report (FALSE)] sint32 ACPowerRecoveryMode;
[SMS_Report (FALSE)] string BootPassword;
[SMS_Report (FALSE)] sint32 BootPasswordVerification;
[SMS_Report (FALSE)] string Caption;
[SMS_Report (FALSE)] string Description;
[SMS_Report (FALSE)] sint32 EnableDisableBIS;
[SMS_Report (FALSE)] sint32 ForcePXEonNextBoot;
[SMS_Report (FALSE)] uint32 GlobalDisplaySeverityLevel;
[SMS_Report (FALSE)] uint32 GlobalNTEventLogSeverityLevel;
[SMS_Report (FALSE)] sint32 GlobalStatus;
[SMS_Report (FALSE)] sint32 HDDMinimumCapacity;
[SMS_Report (FALSE)] sint32 HDDPercentageThreshold;
[SMS_Report (FALSE)] uint32 Infrared;
[SMS_Report (FALSE)] sint32 KeyboardErrorReporting;
```



```
[SMS_Report (FALSE), Key]    string    CSCreationClassName;
[SMS_Report (FALSE), Key]    string    CSName;
[SMS_Report (FALSE)]         string    Description;
[SMS_Report (FALSE)]         uint64    EndingAddress;
[SMS_Report (FALSE)]         string    Name;
[SMS_Report (FALSE)]         string    ReadWrite;
[SMS_Report (FALSE), Key]    uint64    StartingAddress;
[SMS_Report (FALSE)]         string    Status;
};
```

```
[ SMS_Report(FALSE), SMS_Group_Name("Dell DMA"),
SMS_Class_ID("DELL|DMA|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\.\.\.\root\\DellOMCI") ]
class Dell_DMA : SMS_Class_Template
{
[SMS_Report (FALSE)]         uint16    AddressSize;
[SMS_Report (FALSE)]         uint16    Availability;
[SMS_Report (FALSE)]         boolean   BurstMode;
[SMS_Report (FALSE)]         uint16    ByteMode;
[SMS_Report (FALSE)]         string    Caption;
[SMS_Report (FALSE)]         uint16    ChannelTiming;
[SMS_Report (FALSE), Key]    string    CreationClassName;
[SMS_Report (FALSE), Key]    string    CSCreationClassName;
[SMS_Report (FALSE), Key]    string    CSName;
[SMS_Report (FALSE)]         string    Description;
[SMS_Report (FALSE), Key]    uint32    DMAChannel;
[SMS_Report (FALSE)]         uint32    MaxTransferSize;
[SMS_Report (FALSE)]         string    Name;
[SMS_Report (FALSE)]         uint32    Port;
[SMS_Report (FALSE)]         uint16    TransferWidths[];
[SMS_Report (FALSE)]         uint16    TypeCTiming;
[SMS_Report (FALSE)]         uint16    WordMode;
};
```

```
[ SMS_Report(FALSE), SMS_Group_Name("Dell IRQ"),
SMS_Class_ID("DELL|IRQ|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\.\.\.\root\\DellOMCI") ]
class Dell_IRQ : SMS_Class_Template
{
[SMS_Report (FALSE)]         uint16    Availability;
[SMS_Report (FALSE)]         string    Caption;
[SMS_Report (FALSE), Key]    string    CreationClassName;
[SMS_Report (FALSE), Key]    string    CSCreationClassName;
[SMS_Report (FALSE), Key]    string    CSName;
[SMS_Report (FALSE)]         string    Description;
[SMS_Report (FALSE)]         boolean   Hardware;
[SMS_Report (FALSE), Key]    uint32    IRQNumber;
[SMS_Report (FALSE)]         string    Name;
[SMS_Report (FALSE)]         boolean   Shareable;
[SMS_Report (FALSE)]         uint16    TriggerLevel;
[SMS_Report (FALSE)]         uint16    TriggerType;
[SMS_Report (FALSE)]         uint32    Vector;
};
```

# Dell OpenManage Client Instrumentation

```
[ SMS_Report(TRUE), SMS_Group_Name("Dell BIOS Element"),
SMS_Class_ID("DELL|BIOSELEMENT|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_BIOSElement : SMS_Class_Template
{
[SMS_Report (FALSE)]      sint32      BIOSCharacteristics[];
[SMS_Report (FALSE)]      string      BuildNumber;
[SMS_Report (FALSE)]      string      Caption;
[SMS_Report (FALSE)]      string      CurrentLanguage;
[SMS_Report (FALSE)]      string      Description;
[SMS_Report (FALSE)]      string      ListOfLanguages[];
[SMS_Report (FALSE)]      uint64      LoadedEndingAddress;
[SMS_Report (FALSE)]      uint64      LoadedStartingAddress;
[SMS_Report (FALSE)]      string      LoadUtilityInformation;
[SMS_Report (FALSE)]      string      Manufacturer;
[SMS_Report (FALSE), Key]  string      Name;
[SMS_Report (FALSE)]      boolean     PrimaryBIOS;
[SMS_Report (FALSE)]      datetime    ReleaseDate;
[SMS_Report (FALSE)]      sint32      ROMSize;
[SMS_Report (FALSE), Key]  string      SoftwareElementID;
[SMS_Report (TRUE), Key]   uint16     SoftwareElementState;
[SMS_Report (FALSE), Key]  uint16     TargetOperatingSystem;
[SMS_Report (FALSE), Key]  string      Version;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Vid BIOS Element"),
SMS_Class_ID("DELL|VIDEOBIOSELEMENT|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_VideoBIOSElement : SMS_Class_Template
{
[SMS_Report (FALSE)]      string      Caption;
[SMS_Report (FALSE)]      string      Description;
[SMS_Report (FALSE)]      boolean     IsShadowed;
[SMS_Report (FALSE)]      string      Manufacturer;
[SMS_Report (FALSE), Key]  string      Name;
[SMS_Report (FALSE)]      datetime    ReleaseDate;
[SMS_Report (FALSE), Key]  string      SoftwareElementID;
[SMS_Report (FALSE), Key]  uint16     SoftwareElementState;
[SMS_Report (FALSE), Key]  uint16     TargetOperatingSystem;
[SMS_Report (FALSE), Key]  string      Version;
};

[ SMS_Report(TRUE), SMS_Group_Name("Dell System Summary"),
SMS_Class_ID("DELL|SYSTEMSUMMARY|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_SystemSummary : SMS_Class_Template
{
[SMS_Report (TRUE)]       string      AssetTag;
[SMS_Report (TRUE)]       datetime    BIOSDate;
[SMS_Report (TRUE)]       string      BIOSVersion;
[SMS_Report (FALSE)]     string      Caption;
[SMS_Report (FALSE), Key] string      CreationClassName;
[SMS_Report (FALSE)]     string      Description;
[SMS_Report (FALSE)]     string      Location;
[SMS_Report (FALSE), Key] string      Name;
[SMS_Report (TRUE)]       sint32      OperatingSystem;
};
```

# Dell OpenManage Client Instrumentation

```
[SMS_Report (FALSE)]    boolean    PowerManagementSupported;
[SMS_Report (FALSE)]    string      PrimaryOwnerContact;
[SMS_Report (FALSE)]    string      PrimaryOwnerName;
[SMS_Report (FALSE)]    sint32     ProcessorSpeed;
[SMS_Report (FALSE)]    sint32     ProcessorType;
[SMS_Report (TRUE)]     string      ServiceTag;
[SMS_Report (TRUE)]     string      Status;
[SMS_Report (TRUE)]     sint32     SystemClass;
[SMS_Report (TRUE)]     string      SystemDescription;
[SMS_Report (TRUE)]     string      SystemName;
[SMS_Report (FALSE)]    string      SystemVendor;
};

[ SMS_Report(TRUE), SMS_Group_Name("Dell Operating System"),
SMS_Class_ID("DELL|OPERATINGSYSTEM|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\".root) ]
class Dell_OperatingSystem : SMS_Class_Template
{
[SMS_Report (FALSE)]    string      BootDevice;
[SMS_Report (TRUE)]     string      BuildNumber;
[SMS_Report (TRUE)]     string      BuildType;
[SMS_Report (TRUE)]     string      Caption;
[SMS_Report (FALSE)]    string      CodeSet;
[SMS_Report (FALSE)]    string      CountryCode;
[SMS_Report (FALSE), Key] string      CreationClassName;
[SMS_Report (FALSE), Key] string      CSCreationClassName;
[SMS_Report (FALSE), Key] string      CSName;
[SMS_Report (FALSE)]    boolean     Debug;
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (TRUE)]     uint64     FreePhysicalMemory;
[SMS_Report (TRUE)]     uint64     FreeSpaceInPagingFiles;
[SMS_Report (TRUE)]     uint64     FreeVirtualMemory;
[SMS_Report (TRUE)]     datetime    InstallDate;
[SMS_Report (TRUE)]     datetime    LastBootUpTime;
[SMS_Report (TRUE)]     datetime    LocalDateTime;
[SMS_Report (TRUE)]     string      Locale;
[SMS_Report (TRUE)]     string      Manufacturer;
[SMS_Report (FALSE)]    uint32     MaxNumberOfProcesses;
[SMS_Report (FALSE)]    uint64     MaxProcessMemorySize;
[SMS_Report (FALSE), Key] string      Name;
[SMS_Report (TRUE)]     uint32     NumberOfProcesses;
[SMS_Report (TRUE)]     uint32     NumberOfUsers;
[SMS_Report (FALSE)]    string      Organization;
[SMS_Report (FALSE)]    uint32     OSLanguage;
[SMS_Report (FALSE)]    uint16     OSType;
[SMS_Report (FALSE)]    boolean     Primary;
[SMS_Report (FALSE)]    string      RegisteredUser;
[SMS_Report (FALSE)]    string      SerialNumber;
[SMS_Report (FALSE)]    uint16     ServicePackMajorVersion;
[SMS_Report (FALSE)]    uint16     ServicePackMinorVersion;
[SMS_Report (FALSE)]    uint64     SizeStoredInPagingFiles;
[SMS_Report (FALSE)]    string      Status;
[SMS_Report (FALSE)]    string      SystemDevice;
[SMS_Report (TRUE)]     string      SystemDirectory;
[SMS_Report (FALSE)]    uint64     TotalVirtualMemorySize;
[SMS_Report (TRUE)]     uint64     TotalVisibleMemorySize;
```

# Dell OpenManage Client Instrumentation

```
[SMS_Report (TRUE)]      string      Version;
[SMS_Report (FALSE)]    string      WindowsDirectory;
};

[ SMS_Report(TRUE), SMS_Group_Name("Dell Fan"), SMS_Class_ID("DELL|FAN|1.0"),
SMS_Namespace(FALSE), Namespace("\\\\root\\DellOMCI") ]
class Dell_Fan : SMS_Class_Template
{
[SMS_Report (FALSE)]    boolean     ActiveCooling;
[SMS_Report (FALSE)]    string      Caption;
[SMS_Report (FALSE)]    sint32      CoolingDeviceType;
[SMS_Report (FALSE), Key] string      CreationClassName;
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (FALSE)]    uint64      DesiredSpeed;
[SMS_Report (FALSE), Key] string     DeviceID;
[SMS_Report (FALSE)]    string      Name;
[SMS_Report (TRUE)]     string      Status;
[SMS_Report (FALSE), Key] string     SystemCreationClassName;
[SMS_Report (FALSE), Key] string     SystemName;
[SMS_Report (FALSE)]    boolean     VariableSpeed;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Cache Memory"),
SMS_Class_ID("DELL|CACHEMEMORY|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\root\\DellOMCI") ]
class Dell_CacheMemory : SMS_Class_Template
{
[SMS_Report (FALSE)]    uint16      Associativity;
[SMS_Report (FALSE)]    string      Caption;
[SMS_Report (FALSE), Key] string     CreationClassName;
[SMS_Report (FALSE)]    uint16      CurrentSRAM[];
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (FALSE), Key] string     DeviceID;
[SMS_Report (FALSE)]    uint16      Level;
[SMS_Report (FALSE)]    uint16      Location;
[SMS_Report (FALSE)]    uint32      MaxCacheSize;
[SMS_Report (FALSE)]    string      Name;
[SMS_Report (FALSE)]    uint16      SupportedSRAM[];
[SMS_Report (FALSE)]    sint32      SystemCacheErrorCorrection;
[SMS_Report (FALSE)]    sint32      SystemCacheSize;
[SMS_Report (FALSE)]    sint32      SystemCacheSpeed;
[SMS_Report (FALSE), Key] string     SystemCreationClassName;
[SMS_Report (FALSE), Key] string     SystemName;
[SMS_Report (FALSE)]    uint16      WritePolicy;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Memory"),
SMS_Class_ID("DELL|MEMORY|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\root\\DellOMCI") ]
class Dell_Memory : SMS_Class_Template
{
[SMS_Report (FALSE)]    string      Caption;
[SMS_Report (FALSE)]    boolean     CorrectableError;
[SMS_Report (FALSE), Key] string     CreationClassName;
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (FALSE)]    sint32      DeviceErrorAddress;
```



```
[ SMS_Report(TRUE), SMS_Group_Name("Dell Network Adapter"),
SMS_Class_ID("DELL|NETWORKADAPTER|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\.\\\\\\\\root\\\\\\\\DellOMCI") ]
class Dell_NetworkAdapter : SMS_Class_Template
{
[SMS_Report (TRUE)]      string      Caption;
[SMS_Report (FALSE), Key] string      CreationClassName;
[SMS_Report (TRUE)]      string      CurrentNetworkAddress;
[SMS_Report (FALSE)]     string      Description;
[SMS_Report (TRUE), Key] string      DeviceID;
[SMS_Report (FALSE)]     datetime    InstallDate;
[SMS_Report (TRUE)]      string      Manufacturer;
[SMS_Report (FALSE)]     string      Name;
[SMS_Report (FALSE)]     string      NetworkTopology;
[SMS_Report (FALSE)]     string      PermanentAddress;
[SMS_Report (TRUE)]      string      Product;
[SMS_Report (TRUE)]      string      ServiceName;
[SMS_Report (FALSE), Key] string      SystemCreationClassName;
[SMS_Report (FALSE), Key] string      SystemName;
[SMS_Report (FALSE)]     datetime    TimeOfLastReset;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Pointing Device"),
SMS_Class_ID("DELL|POINTINGDEVICE|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\.\\\\\\\\root\\\\\\\\DellOMCI") ]
class Dell_PointingDevice : SMS_Class_Template
{
[SMS_Report (FALSE)]     string      Caption;
[SMS_Report (FALSE), Key] string      CreationClassName;
[SMS_Report (FALSE)]     string      Description;
[SMS_Report (FALSE), Key] string      DeviceID;
[SMS_Report (FALSE)]     string      HardwareType;
[SMS_Report (FALSE)]     string      Manufacturer;
[SMS_Report (FALSE)]     string      Name;
[SMS_Report (FALSE)]     uint8      NumberOfButtons;
[SMS_Report (FALSE)]     sint32     PointingInterface;
[SMS_Report (FALSE)]     uint16     PointingType;
[SMS_Report (FALSE)]     string      Status;
[SMS_Report (FALSE), Key] string      SystemCreationClassName;
[SMS_Report (FALSE), Key] string      SystemName;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Keyboard"),
SMS_Class_ID("DELL|KEYBOARD|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\.\\\\\\\\root\\\\\\\\DellOMCI") ]
class Dell_Keyboard : SMS_Class_Template
{
[SMS_Report (FALSE)]     string      Caption;
[SMS_Report (FALSE), Key] string      CreationClassName;
[SMS_Report (FALSE)]     string      Description;
[SMS_Report (FALSE), Key] string      DeviceID;
[SMS_Report (FALSE)]     string      Layout;
[SMS_Report (FALSE)]     string      Name;
[SMS_Report (FALSE), Key] string      SystemCreationClassName;
[SMS_Report (FALSE), Key] string      SystemName;
};
```

```
[ SMS_Report(FALSE), SMS_Group_Name("Dell Monitor"),
SMS_Class_ID("DELL|MONITOR|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\".\\root\\DellOMCI) ]
class Dell_Monitor : SMS_Class_Template
{
[SMS_Report (FALSE)]    string      Caption;
[SMS_Report (FALSE), Key]    string      CreationClassName;
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (FALSE), Key]    string      DeviceID;
[SMS_Report (FALSE)]    string      ManufactureDate;
[SMS_Report (FALSE)]    string      Manufacturer;
[SMS_Report (FALSE)]    string      Name;
[SMS_Report (FALSE)]    string      Product;
[SMS_Report (FALSE)]    boolean     StandbyModeSupported;
[SMS_Report (FALSE)]    boolean     SuspendModeSupported;
[SMS_Report (FALSE), Key]    string      SystemCreationClassName;
[SMS_Report (FALSE), Key]    string      SystemName;
[SMS_Report (FALSE)]    boolean     VeryLowPowerSupported;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Flat Panel"),
SMS_Class_ID("DELL|FLATPANEL|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\".\\root\\DellOMCI) ]
class Dell_FlatPanel : SMS_Class_Template
{
[SMS_Report (FALSE)]    sint32      Brightness;
[SMS_Report (FALSE)]    sint32      BuiltIn;
[SMS_Report (FALSE)]    string      Caption;
[SMS_Report (FALSE)]    sint32      Contrast;
[SMS_Report (FALSE), Key]    string      CreationClassName;
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (FALSE), Key]    string      DeviceID;
[SMS_Report (FALSE)]    uint16      DisplayType;
[SMS_Report (FALSE)]    uint32      HorizontalResolution;
[SMS_Report (FALSE)]    uint16      LightSource;
[SMS_Report (FALSE)]    string      Name;
[SMS_Report (FALSE)]    uint16      ScanMode;
[SMS_Report (FALSE)]    boolean     SupportsColor;
[SMS_Report (FALSE), Key]    string      SystemCreationClassName;
[SMS_Report (FALSE), Key]    string      SystemName;
[SMS_Report (FALSE)]    uint32      VerticalResolution;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Voltage Sensor"),
SMS_Class_ID("DELL|VOLTAGESENSOR|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\".\\root\\DellOMCI) ]
class Dell_VoltageSensor : SMS_Class_Template
{
[SMS_Report (FALSE)]    sint32      Accuracy;
[SMS_Report (FALSE)]    uint16      BaseUnits;
[SMS_Report (FALSE)]    string      Caption;
[SMS_Report (FALSE), Key]    string      CreationClassName;
[SMS_Report (FALSE)]    sint32      CurrentReading;
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (FALSE), Key]    string      DeviceID;
```

```
[SMS_Report (FALSE)]      sint32      Location;
[SMS_Report (FALSE)]      sint32      LowerThresholdCritical;
[SMS_Report (FALSE)]      sint32      LowerThresholdFatal;
[SMS_Report (FALSE)]      sint32      LowerThresholdNonCritical;
[SMS_Report (FALSE)]      sint32      MaxReadable;
[SMS_Report (FALSE)]      sint32      MinReadable;
[SMS_Report (FALSE)]      string      Name;
[SMS_Report (FALSE)]      sint32      NominalReading;
[SMS_Report (FALSE)]      sint32      NormalMax;
[SMS_Report (FALSE)]      sint32      NormalMin;
[SMS_Report (FALSE)]      uint16     RateUnits;
[SMS_Report (FALSE)]      uint32     Resolution;
[SMS_Report (FALSE)]      uint16     SensorType;
[SMS_Report (FALSE)]      string      Status;
[SMS_Report (FALSE), Key]  string      SystemCreationClassName;
[SMS_Report (FALSE), Key]  string      SystemName;
[SMS_Report (FALSE)]      sint32      Tolerance;
[SMS_Report (FALSE)]      sint32      UnitModifier;
[SMS_Report (FALSE)]      sint32      UpperThresholdCritical;
[SMS_Report (FALSE)]      sint32      UpperThresholdFatal;
[SMS_Report (FALSE)]      sint32      UpperThresholdNonCritical;
};

[ SMS_Report(TRUE), SMS_Group_Name("Dell Temp Sensor"),
SMS_Class_ID("DELL|TEMPERATURESENSOR|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_TemperatureSensor : SMS_Class_Template
{
[SMS_Report (FALSE)]      sint32      Accuracy;
[SMS_Report (FALSE)]      uint16     BaseUnits;
[SMS_Report (FALSE)]      string      Caption;
[SMS_Report (FALSE), Key]  string      CreationClassName;
[SMS_Report (FALSE)]      sint32      CurrentReading;
[SMS_Report (FALSE)]      string      Description;
[SMS_Report (FALSE), Key]  string      DeviceID;
[SMS_Report (FALSE)]      string      Location;
[SMS_Report (FALSE)]      sint32      LowerThresholdCritical;
[SMS_Report (FALSE)]      sint32      LowerThresholdFatal;
[SMS_Report (FALSE)]      sint32      LowerThresholdNonCritical;
[SMS_Report (FALSE)]      sint32      MaxReadable;
[SMS_Report (FALSE)]      sint32      MinReadable;
[SMS_Report (FALSE)]      string      Name;
[SMS_Report (FALSE)]      sint32      NominalReading;
[SMS_Report (FALSE)]      sint32      NormalMax;
[SMS_Report (FALSE)]      sint32      NormalMin;
[SMS_Report (FALSE)]      uint16     RateUnits;
[SMS_Report (FALSE)]      uint32     Resolution;
[SMS_Report (FALSE)]      uint16     SensorType;
[SMS_Report (TRUE)]       string      Status;
[SMS_Report (FALSE), Key]  string      SystemCreationClassName;
[SMS_Report (FALSE), Key]  string      SystemName;
[SMS_Report (FALSE)]      sint32      Tolerance;
[SMS_Report (FALSE)]      sint32      UnitModifier;
[SMS_Report (FALSE)]      sint32      UpperThresholdCritical;
[SMS_Report (FALSE)]      sint32      UpperThresholdFatal;
[SMS_Report (FALSE)]      sint32      UpperThresholdNonCritical;
};
```

```
};

[ SMS_Report(TRUE), SMS_Group_Name("Dell Current Sensor"),
SMS_Class_ID("DELL|CURRENTSENSOR|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\"root\\"DellOMCI") ]
class Dell_CurrentSensor : SMS_Class_Template
{
[SMS_Report (FALSE)] sint32 Accuracy;
[SMS_Report (FALSE)] uint16 BaseUnits;
[SMS_Report (FALSE)] string Caption;
[SMS_Report (FALSE), Key] string CreationClassName;
[SMS_Report (FALSE)] sint32 CurrentReading;
[SMS_Report (FALSE)] string Description;
[SMS_Report (FALSE), Key] string DeviceID;
[SMS_Report (FALSE)] sint32 Location;
[SMS_Report (FALSE)] sint32 LowerThresholdCritical;
[SMS_Report (FALSE)] sint32 LowerThresholdFatal;
[SMS_Report (FALSE)] sint32 LowerThresholdNonCritical;
[SMS_Report (FALSE)] sint32 MaxReadable;
[SMS_Report (FALSE)] sint32 MinReadable;
[SMS_Report (FALSE)] string Name;
[SMS_Report (FALSE)] sint32 NominalReading;
[SMS_Report (FALSE)] sint32 NormalMax;
[SMS_Report (FALSE)] sint32 NormalMin;
[SMS_Report (FALSE)] uint16 RateUnits;
[SMS_Report (FALSE)] uint32 Resolution;
[SMS_Report (FALSE)] uint16 SensorType;
[SMS_Report (TRUE)] string Status;
[SMS_Report (FALSE), Key] string SystemCreationClassName;
[SMS_Report (FALSE), Key] string SystemName;
[SMS_Report (FALSE)] sint32 Tolerance;
[SMS_Report (FALSE)] sint32 UnitModifier;
[SMS_Report (FALSE)] sint32 UpperThresholdCritical;
[SMS_Report (FALSE)] sint32 UpperThresholdFatal;
[SMS_Report (FALSE)] sint32 UpperThresholdNonCritical;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell SCSI Controller"),
SMS_Class_ID("DELL|SCSICONTROLLER|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\"root\\"DellOMCI") ]
class Dell_SCSIController : SMS_Class_Template
{
[SMS_Report (FALSE)] string Caption;
[SMS_Report (FALSE), Key] string CreationClassName;
[SMS_Report (FALSE)] string Description;
[SMS_Report (FALSE), Key] string DeviceID;
[SMS_Report (FALSE)] string DeviceMap;
[SMS_Report (FALSE)] string DriverName;
[SMS_Report (FALSE)] string HardwareVersion;
[SMS_Report (FALSE)] string Manufacturer;
[SMS_Report (FALSE)] string Name;
[SMS_Report (FALSE)] uint16 ProtocolSupported;
[SMS_Report (FALSE)] string Status;
[SMS_Report (FALSE)] uint16 StatusInfo;
[SMS_Report (FALSE), Key] string SystemCreationClassName;
[SMS_Report (FALSE), Key] string SystemName;
};
```

```
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell USB Controller"),
SMS_Class_ID("DELL|USBCONTROLLER|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\root\\\\DellOMCI") ]
class Dell_USBController : SMS_Class_Template
{
[SMS_Report (FALSE)] string Caption;
[SMS_Report (FALSE), Key] string CreationClassName;
[SMS_Report (FALSE)] string Description;
[SMS_Report (FALSE), Key] string DeviceID;
[SMS_Report (FALSE)] datetime InstallDate;
[SMS_Report (FALSE)] string Name;
[SMS_Report (FALSE)] uint16 ProtocolSupported;
[SMS_Report (FALSE)] string Status;
[SMS_Report (FALSE), Key] string SystemCreationClassName;
[SMS_Report (FALSE), Key] string SystemName;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Serial Ctrlr"),
SMS_Class_ID("DELL|SERIALCONTROLLER|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\root\\\\DellOMCI") ]
class Dell_SerialController : SMS_Class_Template
{
[SMS_Report (FALSE)] sint32 BaseIOAddress;
[SMS_Report (FALSE)] string Caption;
[SMS_Report (FALSE), Key] string CreationClassName;
[SMS_Report (FALSE)] string Description;
[SMS_Report (FALSE), Key] string DeviceID;
[SMS_Report (FALSE)] sint32 IRQUsed;
[SMS_Report (FALSE)] string LogicalName;
[SMS_Report (FALSE)] uint32 MaxBaudRate;
[SMS_Report (FALSE)] string Name;
[SMS_Report (FALSE)] uint16 Security;
[SMS_Report (FALSE)] sint32 SerialPortCapabilities;
[SMS_Report (FALSE), Key] string SystemCreationClassName;
[SMS_Report (FALSE), Key] string SystemName;
[SMS_Report (FALSE)] sint32 Type;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Video Controller"),
SMS_Class_ID("DELL|VIDEOCONTROLLER|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\root\\\\DellOMCI") ]
class Dell_VideoController : SMS_Class_Template
{
[SMS_Report (FALSE)] string AdapterCompatibility;
[SMS_Report (FALSE)] string AdapterDACType;
[SMS_Report (FALSE)] uint32 AdapterRAM;
[SMS_Report (FALSE)] string Caption;
[SMS_Report (FALSE), Key] string CreationClassName;
[SMS_Report (FALSE)] uint32 CurrentBitsPerPixel;
[SMS_Report (FALSE)] uint32 CurrentHorizontalResolution;
[SMS_Report (FALSE)] uint32 CurrentNumberOfColumns;
[SMS_Report (FALSE)] uint32 CurrentNumberOfRows;
[SMS_Report (FALSE)] uint32 CurrentRefreshRate;
[SMS_Report (FALSE)] uint16 CurrentScanMode;
```

```
[SMS_Report (FALSE)]      uint32      CurrentVerticalResolution;
[SMS_Report (FALSE)]      string      Description;
[SMS_Report (FALSE), Key]  string      DeviceID;
[SMS_Report (FALSE)]      datetime    DriverDate;
[SMS_Report (FALSE)]      string      DriverVersion;
[SMS_Report (FALSE)]      string      InstalledDisplayDrivers;
[SMS_Report (FALSE)]      uint32      MaxMemorySupported;
[SMS_Report (FALSE)]      uint32      MaxRefreshRate;
[SMS_Report (FALSE)]      uint32      MinRefreshRate;
[SMS_Report (FALSE)]      string      Name;
[SMS_Report (FALSE), Key]  string      SystemCreationClassName;
[SMS_Report (FALSE), Key]  string      SystemName;
[SMS_Report (FALSE)]      uint16      VideoArchitecture;
[SMS_Report (FALSE)]      uint16      VideoMemoryType;
[SMS_Report (FALSE)]      uint16      VideoMode;
[SMS_Report (FALSE)]      string      VideoModeDescription;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell PCI Bridge"),
SMS_Class_ID("DELL|PCIBRIDGE|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\.\\\\\\\\root\\\\\\\\DellOMCI") ]
class Dell_PCIBridge : SMS_Class_Template
{
[SMS_Report (FALSE)]      uint32      BaseAddress[];
[SMS_Report (FALSE)]      uint16      BridgeType;
[SMS_Report (FALSE)]      string      Caption;
[SMS_Report (FALSE), Key]  string      CreationClassName;
[SMS_Report (FALSE)]      string      Description;
[SMS_Report (FALSE), Key]  string      DeviceID;
[SMS_Report (FALSE)]      uint8      IOBase;
[SMS_Report (FALSE)]      uint16      IOBaseUpper16;
[SMS_Report (FALSE)]      uint8      IOLimit;
[SMS_Report (FALSE)]      uint16      IOLimitUpper16;
[SMS_Report (FALSE)]      uint16      MemoryBase;
[SMS_Report (FALSE)]      uint16      MemoryLimit;
[SMS_Report (FALSE)]      string      Name;
[SMS_Report (FALSE)]      uint16      PCIDeviceID;
[SMS_Report (FALSE)]      uint16      PCIVendorID;
[SMS_Report (FALSE)]      uint32      PrefetchBaseUpper32;
[SMS_Report (FALSE)]      uint32      PrefetchLimitUpper32;
[SMS_Report (FALSE)]      uint16      PrefetchMemoryBase;
[SMS_Report (FALSE)]      uint16      PrefetchMemoryLimit;
[SMS_Report (FALSE)]      uint8      PrimaryBusNumber;
[SMS_Report (FALSE)]      uint16      SecondaryBusDeviceSelectTiming;
[SMS_Report (FALSE)]      uint8      SecondaryLatencyTimer;
[SMS_Report (FALSE)]      uint16      SecondaryStatusRegister;
[SMS_Report (FALSE)]      uint8      SecondaryBusNumber;
[SMS_Report (FALSE)]      uint8      SubordinateBusNumber;
[SMS_Report (FALSE), Key]  string      SystemCreationClassName;
[SMS_Report (FALSE), Key]  string      SystemName;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell PCI Device"),
SMS_Class_ID("DELL|PCIDEVICE|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\.\\\\\\\\root\\\\\\\\DellOMCI") ]
class Dell_PCIDevice : SMS_Class_Template
```

```
{
[SMS_Report (FALSE)]      uint32      BaseAddress[];
[SMS_Report (FALSE)]      string        Caption;
[SMS_Report (FALSE), Key]  string        CreationClassName;
[SMS_Report (FALSE)]      string        Description;
[SMS_Report (FALSE), Key]  string        DeviceID;
[SMS_Report (FALSE)]      string        Manufacturer;
[SMS_Report (FALSE)]      uint8         MaxLatency;
[SMS_Report (FALSE)]      uint8         MinGrantTime;
[SMS_Report (FALSE)]      string        Name;
[SMS_Report (FALSE)]      uint16       PCIDeviceID;
[SMS_Report (FALSE)]      uint16       PCIVendorID;
[SMS_Report (FALSE)]      uint16       SubsystemID;
[SMS_Report (FALSE)]      uint16       SubsystemVendorID;
[SMS_Report (FALSE), Key]  string        SystemCreationClassName;
[SMS_Report (FALSE), Key]  string        SystemName;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell IR Controller"),
SMS_Class_ID("DELL|INFRAREDCONTROLLER|1.0"), SMS_Namespace (FALSE),
Namespace("\\\\\\\\\\\\\\\\\\.\\\\\\\\root\\\\\\\\DellOMCI") ]
class Dell_InfraredController : SMS_Class_Template
{
[SMS_Report (FALSE)]      string        Caption;
[SMS_Report (FALSE), Key]  string        CreationClassName;
[SMS_Report (FALSE)]      string        Description;
[SMS_Report (FALSE), Key]  string        DeviceID;
[SMS_Report (FALSE)]      sint32       EnableState;
[SMS_Report (FALSE)]      sint32       LimitSpeedEnable;
[SMS_Report (FALSE)]      string        Name;
[SMS_Report (FALSE)]      string        PhysicalPortName;
[SMS_Report (FALSE)]      uint16       ProtocolSupported;
[SMS_Report (FALSE)]      sint32       SpeedLimit;
[SMS_Report (FALSE), Key]  string        SystemCreationClassName;
[SMS_Report (FALSE), Key]  string        SystemName;
[SMS_Report (FALSE)]      string        VirtualCOMPortName;
[SMS_Report (FALSE)]      string        VirtualLPTPortName;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Parallel Ctrlr"),
SMS_Class_ID("DELL|PARALLELCONTROLLER|1.0"), SMS_Namespace (FALSE),
Namespace("\\\\\\\\\\\\\\\\\\.\\\\\\\\root\\\\\\\\DellOMCI") ]
class Dell_ParallelController : SMS_Class_Template
{
[SMS_Report (FALSE)]      sint32       BaseIOAddress;
[SMS_Report (FALSE)]      string        Caption;
[SMS_Report (FALSE), Key]  string        CreationClassName;
[SMS_Report (FALSE)]      string        Description;
[SMS_Report (FALSE), Key]  string        DeviceID;
[SMS_Report (FALSE)]      boolean      DMASupport;
[SMS_Report (FALSE)]      sint32       IRQUsed;
[SMS_Report (FALSE)]      string        LogicalName;
[SMS_Report (FALSE)]      string        Name;
[SMS_Report (FALSE)]      uint32       ParallelPortCapabilities;
[SMS_Report (FALSE)]      sint32       Pinout;
[SMS_Report (FALSE)]      uint16       Security;
};
```



```
[SMS_Report (FALSE), Key]    string    SystemCreationClassName;
[SMS_Report (FALSE), Key]    string    SystemName;
[SMS_Report (FALSE)]        uint32    TimeToFullCharge;
[SMS_Report (FALSE)]        uint64    TotalPowerOnHours;
};
```

```
[ SMS_Report(FALSE), SMS_Group_Name("Dell SMART Drive"),
SMS_Class_ID("DELL|SMARTDRIVE|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\.\root\\DellOMCI") ]
class Dell_SMARTDrive : SMS_Class_Template
{
[SMS_Report (FALSE)]    string    Caption;
[SMS_Report (FALSE), Key]    string    CreationClassName;
[SMS_Report (FALSE)]    string    Description;
[SMS_Report (FALSE), Key]    string    DeviceID;
[SMS_Report (FALSE)]    string    FirmwareRevision;
[SMS_Report (FALSE)]    string    ModelNumber;
[SMS_Report (FALSE)]    string    Name;
[SMS_Report (FALSE)]    string    SerialNumber;
[SMS_Report (FALSE)]    string    Status;
[SMS_Report (FALSE), Key]    string    SystemCreationClassName;
[SMS_Report (FALSE), Key]    string    SystemName;
};
```

```
[ SMS_Report(FALSE), SMS_Group_Name("Dell Disk Drive"),
SMS_Class_ID("DELL|DISKDRIVE|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\.\root\\DellOMCI") ]
class Dell_DiskDrive : SMS_Class_Template
{
[SMS_Report (FALSE)]    uint32    BytesPerSector;
[SMS_Report (FALSE)]    string    Caption;
[SMS_Report (FALSE), Key]    string    CreationClassName;
[SMS_Report (FALSE)]    string    Description;
[SMS_Report (FALSE), Key]    string    DeviceID;
[SMS_Report (FALSE)]    string    InterfaceDescription;
[SMS_Report (FALSE)]    string    Manufacturer;
[SMS_Report (FALSE)]    sint32    MediaLoaded;
[SMS_Report (FALSE)]    string    MediaType;
[SMS_Report (FALSE)]    string    Model;
[SMS_Report (FALSE)]    string    Name;
[SMS_Report (FALSE)]    sint32    Partitions;
[SMS_Report (FALSE)]    uint64    PhysicalCylinders;
[SMS_Report (FALSE)]    sint32    PhysicalHeads;
[SMS_Report (FALSE)]    sint32    PhysicalSectorsPerTrack;
[SMS_Report (FALSE)]    string    Status;
[SMS_Report (FALSE), Key]    string    SystemCreationClassName;
[SMS_Report (FALSE), Key]    string    SystemName;
[SMS_Report (FALSE)]    uint64    TotalPhysicalSize;
[SMS_Report (FALSE)]    uint64    TotalSectors;
[SMS_Report (FALSE)]    uint64    TotalTracks;
[SMS_Report (FALSE)]    uint32    TracksPerCylinder;
};
```

```
[ SMS_Report(TRUE), SMS_Group_Name("Dell Physical Memory"),
SMS_Class_ID("DELL|PHYSICALMEMORY|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\.\root\\DellOMCI") ]
```

```
class Dell_PhysicalMemory : SMS_Class_Template
{
[SMS_Report (FALSE)]    string      AssetTag;
[SMS_Report (FALSE)]    string      BankLabel;
[SMS_Report (TRUE)]     uint64      Capacity;
[SMS_Report (TRUE)]     string      Caption;
[SMS_Report (FALSE), Key] string      CreationClassName;
[SMS_Report (TRUE)]     uint16      DataWidth;
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (TRUE)]     string      DeviceLocator;
[SMS_Report (TRUE)]     uint16      FormFactor;
[SMS_Report (TRUE)]     string      Manufacturer;
[SMS_Report (FALSE)]    sint32      MemoryArrayHandle;
[SMS_Report (TRUE)]     uint16      MemoryType;
[SMS_Report (FALSE)]    string      Name;
[SMS_Report (TRUE)]     string      PartNumber;
[SMS_Report (TRUE)]     string      SerialNumber;
[SMS_Report (TRUE)]     uint32      Speed;
[SMS_Report (FALSE), Key] string      Tag;
[SMS_Report (TRUE)]     uint16      TotalWidth;
[SMS_Report (TRUE)]     sint32      TypeDetail;
};

[ SMS_Report(TRUE), SMS_Group_Name("Dell Slot"),
SMS_Class_ID("DELL|SLOT|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_Slot : SMS_Class_Template
{
[SMS_Report (TRUE)]     string      Caption;
[SMS_Report (FALSE), Key] string      CreationClassName;
[SMS_Report (TRUE)]     sint32      CurrentUsage;
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (TRUE)]     uint16      MaxDataWidth;
[SMS_Report (FALSE)]    string      Model;
[SMS_Report (FALSE)]    string      Name;
[SMS_Report (FALSE)]    uint16      Number;
[SMS_Report (TRUE)]     boolean     PMESignal;
[SMS_Report (FALSE)]    boolean     PoweredOn;
[SMS_Report (FALSE)]    boolean     Shared;
[SMS_Report (TRUE)]     string      SlotDesignation;
[SMS_Report (TRUE)]     string      Status;
[SMS_Report (FALSE)]    boolean     SupportsHotPlug;
[SMS_Report (TRUE), Key] string      Tag;
[SMS_Report (FALSE)]    uint32      ThermalRating;
[SMS_Report (TRUE)]     uint16      VccMixedVoltageSupport[];
[SMS_Report (FALSE)]    uint16      VppMixedVoltageSupport[];
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Physical Mem Arr"),
SMS_Class_ID("DELL|PHYSICALMEMORYARRAY|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_PhysicalMemoryArray : SMS_Class_Template
{
[SMS_Report (FALSE)]    string      Caption;
[SMS_Report (FALSE), Key] string      CreationClassName;
[SMS_Report (FALSE)]    string      Description;
```



```
[SMS_Report (FALSE)]    string    Model;
[SMS_Report (FALSE)]    string    Name;
[SMS_Report (TRUE)]     sint32    PowerState;
[SMS_Report (FALSE)]    uint16    SecurityBreach;
[SMS_Report (FALSE)]    string    SerialNumber;
[SMS_Report (FALSE), Key] string    Tag;
[SMS_Report (TRUE)]     sint32    ThermalState;
[SMS_Report (FALSE)]    string    TypeDescriptions[];
[SMS_Report (FALSE)]    string    Version;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Docking"),
SMS_Class_ID("DELL|DOCKING|1.0"), SMS_Namespace (FALSE),
Namespace("\\\\root\\DellOMCI") ]
class Dell_Docking : SMS_Class_Template
{
[SMS_Report (FALSE)]    string    Caption;
[SMS_Report (FALSE), Key] string    CreationClassName;
[SMS_Report (FALSE)]    string    Description;
[SMS_Report (FALSE)]    sint32    DockingStationCapabilities;
[SMS_Report (FALSE)]    sint32    DockingStationNetworkStatus;
[SMS_Report (FALSE)]    sint32    DockingStationSCSIStatus;
[SMS_Report (FALSE)]    sint32    DockingStationType;
[SMS_Report (FALSE)]    sint32    DockingUndockingSequence;
[SMS_Report (FALSE)]    string    Manufacturer;
[SMS_Report (FALSE)]    string    Name;
[SMS_Report (FALSE)]    string    SerialNumber;
[SMS_Report (FALSE), Key] string    Tag;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Intel vPro Conf"),
SMS_Class_ID("DELL|INTELVPROSETTINGS|1.0"), SMS_Namespace (FALSE),
Namespace("\\\\root\\DellOMCI") ]
class Dell_IntelvProSettings : SMS_Class_Template
{
[SMS_Report (FALSE)]    uint16    BIOSSupportedMaximumVAVersion;
[SMS_Report (FALSE)]    boolean    CPUSupportsVTx;
[SMS_Report (FALSE), Key] uint32    DellInstanceID;
[SMS_Report (FALSE)]    uint8    IntelAMTFWSupport;
[SMS_Report (FALSE)]    uint8    IntelASFFWSupport;
[SMS_Report (FALSE)]    uint8    IntelQSTFWSupport;
[SMS_Report (FALSE)]    uint8    LTTXTCapability;
[SMS_Report (FALSE)]    uint8    LTTXTEnabledState;
[SMS_Report (FALSE)]    uint8    MCHSupportForVTd;
[SMS_Report (FALSE)]    boolean    MCHSupportsTXT;
[SMS_Report (FALSE)]    uint16    MEFWBuildNumber;
[SMS_Report (FALSE)]    uint16    MEFWHotfixNumber;
[SMS_Report (FALSE)]    uint16    MEFWMajorVersion;
[SMS_Report (FALSE)]    uint16    MEFWMinorVersion;
[SMS_Report (FALSE)]    uint8    MEState;
[SMS_Report (FALSE)]    uint8    SMXState;
[SMS_Report (FALSE)]    boolean    SPIFlashhasPlatformDataRegionReserved;
[SMS_Report (FALSE)]    boolean    SupportsMEinBIOSSetup;
[SMS_Report (FALSE)]    boolean    SupportsTPMinBIOSSetup;
[SMS_Report (FALSE)]    boolean    SupportsTPMOnBoard;
[SMS_Report (FALSE)]    boolean    SupportsTXTinBIOSSetup;
```

```
[SMS_Report (FALSE)]    boolean    SupportsVAExtensions;
[SMS_Report (FALSE)]    boolean    SupportsVTdinBIOSSetup;
[SMS_Report (FALSE)]    boolean    SupportsVTxinBIOSSetup;
[SMS_Report (FALSE)]    uint8      TPMDesignedforTCGSpecMajorVersion;
[SMS_Report (FALSE)]    uint8      TPMDesignedforTCGSpecMinorVersion;
[SMS_Report (FALSE)]    uint8      TPMState;
[SMS_Report (FALSE)]    uint8      TXTStateInMCH;
[SMS_Report (FALSE)]    uint8      VMXState;
[SMS_Report (FALSE)]    uint8      VTdState;
[SMS_Report (FALSE)]    uint8      VTxState;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell System Reset"),
SMS_Class_ID("DELL|SYSTEMRESET|1.0"), SMS_Namespace (FALSE),
Namespace("\\\\\\".root\\"DellOMCI") ]
class Dell_SystemReset : SMS_Class_Template
{
[SMS_Report (FALSE)]    sint32     AutomaticSystemResetBootOption;
[SMS_Report (FALSE)]    sint32     AutomaticSystemResetCapability;
[SMS_Report (FALSE)]    sint32     AutomaticSystemResetCount;
[SMS_Report (FALSE)]    sint32     AutomaticSystemResetLimit;
[SMS_Report (FALSE)]    sint32     AutomaticSystemResetStatus;
[SMS_Report (FALSE)]    sint32     AutomaticSystemResetTimer;
[SMS_Report (FALSE)]    sint32     AutomaticSystemResetTimerInterval;
[SMS_Report (FALSE)]    sint32     AutomaticSystemResetTimerReset;
[SMS_Report (FALSE)]    string     Caption;
[SMS_Report (FALSE), Key]    uint32    DellInstanceID;
[SMS_Report (FALSE)]    string     Description;
[SMS_Report (FALSE)]    string     SettingID;
[SMS_Report (FALSE)]    sint32     SystemResetBootOption;
[SMS_Report (FALSE)]    sint32     SystemResetBootOptionAtLimit;
[SMS_Report (FALSE)]    sint32     SystemResetTimeOut;
};

[ SMS_Report(TRUE), SMS_Group_Name("Dell SMBIOS Settings"),
SMS_Class_ID("DELL|SMBIOSSETTINGS|1.0"), SMS_Namespace (FALSE),
Namespace("\\\\\\".root\\"DellOMCI") ]
class Dell_SMBIOSSettings : SMS_Class_Template
{
[SMS_Report (FALSE)]    sint32     AGPSlot;
[SMS_Report (FALSE)]    sint32     AmbientLightSensor;
[SMS_Report (FALSE)]    sint32     ASFMode;
[SMS_Report (FALSE)]    sint32     AudioMode;
[SMS_Report (FALSE)]    sint32     AutoOn;
[SMS_Report (FALSE)]    sint32     AutoOnHour;
[SMS_Report (FALSE)]    sint32     AutoOnMinute;
[SMS_Report (FALSE)]    sint32     BluetoothDevices;
[SMS_Report (FALSE)]    sint32     BootSequence;
[SMS_Report (FALSE)]    sint32     BuiltinFloppy;
[SMS_Report (FALSE)]    sint32     BuiltinNIC;
[SMS_Report (FALSE)]    sint32     BuiltinNIC2;
[SMS_Report (FALSE)]    sint32     BuiltinPointingDevice;
[SMS_Report (FALSE)]    string     Caption;
[SMS_Report (FALSE)]    sint32     CellularRadio;
[SMS_Report (FALSE)]    sint32     Charger;
[SMS_Report (FALSE)]    sint32     ChassisIntrusion;
```

```
[SMS_Report (TRUE)]      sint32      ChassisIntrusionStatus;
[SMS_Report (FALSE)]    sint32      ClearSystemEventLog;
[SMS_Report (FALSE)]    sint32      CoolAndQuiet;
[SMS_Report (FALSE)]    sint32      CPUVirtualization;
[SMS_Report (FALSE), Key] uint32      DellInstanceID;
[SMS_Report (FALSE)]    string      Description;
[SMS_Report (FALSE)]    sint32      ESataPorts;
[SMS_Report (FALSE)]    sint32      ExpressCharge;
[SMS_Report (FALSE)]    sint32      ExternalHotkey;
[SMS_Report (FALSE)]    sint32      FastBoot;
[SMS_Report (FALSE)]    sint32      HardDiskAcousticMode;
[SMS_Report (FALSE)]    sint32      HardDiskFailover;
[SMS_Report (FALSE)]    sint32      HotDocking;
[SMS_Report (FALSE)]    sint32      Hyperthreading;
[SMS_Report (FALSE)]    sint32      IDEController;
[SMS_Report (FALSE)]    sint32      IntegratedAudio;
[SMS_Report (FALSE)]    sint32      IntegratedRAIDController;
[SMS_Report (FALSE)]    sint32      IntegratedSASController;
[SMS_Report (FALSE)]    sint32      IntegratedSATAController;
[SMS_Report (FALSE)]    sint32      IntegratedUSBHub;
[SMS_Report (FALSE)]    sint32      InternalMiniPCI;
[SMS_Report (FALSE)]    sint32      KeyboardIllumination;
[SMS_Report (FALSE)]    sint32      Keypad;
[SMS_Report (FALSE)]    sint32      LimitCPUIDValue;
[SMS_Report (FALSE)]    sint32      LowPowerS5;
[SMS_Report (FALSE)]    sint32      MediaCardAnd1394;
[SMS_Report (FALSE)]    sint32      Microphone;
[SMS_Report (FALSE)]    sint32      ModuleBayDevice;
[SMS_Report (FALSE)]    sint32      MonitorToggling;
[SMS_Report (FALSE)]    sint32      MultiCore;
[SMS_Report (FALSE)]    sint32      NMIButton;
[SMS_Report (FALSE)]    sint32      NodeInterleave;
[SMS_Report (FALSE)]    sint32      NoExecute;
[SMS_Report (FALSE)]    sint32      NumLock;
[SMS_Report (FALSE)]    sint32      Onboard1394;
[SMS_Report (FALSE)]    sint32      OnboardModem;
[SMS_Report (FALSE)]    sint32      OSInstallMode;
[SMS_Report (FALSE)]    sint32      ParallelPortConfiguration;
[SMS_Report (FALSE)]    sint32      ParallelPortMode;
[SMS_Report (FALSE)]    sint32      PasswordBypass;
[SMS_Report (FALSE)]    sint32      PCCard;
[SMS_Report (FALSE)]    sint32      PCCardAnd1394;
[SMS_Report (FALSE)]    sint32      PCISlots;
[SMS_Report (FALSE)]    sint32      PenMissingIndication;
[SMS_Report (FALSE)]    sint32      PenResumeOn;
[SMS_Report (FALSE)]    sint32      PointingDevice;
[SMS_Report (FALSE)]    sint32      POSTF12KeySetting;
[SMS_Report (FALSE)]    sint32      POSTF2KeySetting;
[SMS_Report (FALSE)]    sint32      POSTHelpDeskKeySetting;
[SMS_Report (FALSE)]    sint32      POSTMEBxKeySetting;
[SMS_Report (FALSE)]    sint32      PowerManagementSettings;
[SMS_Report (FALSE)]    sint32      PrimaryParallelATAMaster;
[SMS_Report (FALSE)]    sint32      PrimaryParallelATASlave;
[SMS_Report (FALSE)]    sint32      PrimaryVideo;
[SMS_Report (FALSE)]    sint32      RadioTransmission;
[SMS_Report (FALSE)]    sint32      SATADIPM;
```

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[SMS_Report (FALSE)]	sint32	SecondaryParallelATAMaster;
[SMS_Report (FALSE)]	sint32	SecondaryParallelATASlave;
[SMS_Report (FALSE)]	sint32	SelectiveUSB;
[SMS_Report (FALSE)]	sint32	SerialATAChannel1;
[SMS_Report (FALSE)]	sint32	SerialATAChannel2;
[SMS_Report (FALSE)]	sint32	SerialATAChannel3;
[SMS_Report (FALSE)]	sint32	SerialATAChannel4;
[SMS_Report (FALSE)]	sint32	SerialATAChannel5;
[SMS_Report (FALSE)]	sint32	SerialATAChannel6;
[SMS_Report (FALSE)]	sint32	SerialATAChannel7;
[SMS_Report (FALSE)]	sint32	SerialATAChannel8;
[SMS_Report (FALSE)]	sint32	SerialCommunication;
[SMS_Report (FALSE)]	sint32	SerialPort1Configuration;
[SMS_Report (FALSE)]	sint32	SerialPort2Configuration;
[SMS_Report (FALSE)]	sint32	SERRDMIMessage;
[SMS_Report (FALSE)]	sint32	SetCMOSToDefault;
[SMS_Report (FALSE)]	string	SettingID;
[SMS_Report (FALSE)]	sint32	SingleByteECCLogging;
[SMS_Report (FALSE)]	sint32	SingleCoreTurboMode;
[SMS_Report (FALSE)]	sint32	SmartCardReader;
[SMS_Report (FALSE)]	sint32	SMARTErrors;
[SMS_Report (FALSE)]	sint32	SpeakerVolume;
[SMS_Report (FALSE)]	sint32	SpeedStep;
[SMS_Report (FALSE)]	sint32	SuspendMode;
[SMS_Report (FALSE)]	sint32	TabletButtons;
[SMS_Report (FALSE)]	sint32	TertiaryParallelATAMaster;
[SMS_Report (FALSE)]	sint32	TertiaryParallelATASlave;
[SMS_Report (FALSE)]	sint32	TrustedPlatformModule;
[SMS_Report (FALSE)]	sint32	TrustedPlatformModuleActivation;
[SMS_Report (FALSE)]	sint32	UARTPowerDown;
[SMS_Report (FALSE)]	sint32	USBEmulation;
[SMS_Report (FALSE)]	sint32	USBFlashDriveEmulation;
[SMS_Report (FALSE)]	sint32	USBFrontPanelPorts;
[SMS_Report (FALSE)]	sint32	USBPort00;
[SMS_Report (FALSE)]	sint32	USBPort01;
[SMS_Report (FALSE)]	sint32	USBPort02;
[SMS_Report (FALSE)]	sint32	USBPort03;
[SMS_Report (FALSE)]	sint32	USBPort04;
[SMS_Report (FALSE)]	sint32	USBPort05;
[SMS_Report (FALSE)]	sint32	USBPort06;
[SMS_Report (FALSE)]	sint32	USBPort07;
[SMS_Report (FALSE)]	sint32	USBPort08;
[SMS_Report (FALSE)]	sint32	USBPort09;
[SMS_Report (FALSE)]	sint32	USBPort10;
[SMS_Report (FALSE)]	sint32	USBPort11;
[SMS_Report (FALSE)]	sint32	USBPort12;
[SMS_Report (FALSE)]	sint32	USBPort13;
[SMS_Report (FALSE)]	sint32	USBPort14;
[SMS_Report (FALSE)]	sint32	USBPort15;
[SMS_Report (FALSE)]	sint32	USBPorts;
[SMS_Report (FALSE)]	sint32	USBPortsExternal;
[SMS_Report (FALSE)]	sint32	USBPortsUserAccessible;
[SMS_Report (FALSE)]	sint32	USBRearDual;
[SMS_Report (FALSE)]	sint32	USBRearQuad;
[SMS_Report (FALSE)]	sint32	USBWake;
[SMS_Report (FALSE)]	sint32	VideoExpansion;

```
[SMS_Report (FALSE)]      sint32      VideoMemorySize;
[SMS_Report (FALSE)]      sint32      VTforDirectIO;
[SMS_Report (FALSE)]      sint32      WakeupOnLAN;
[SMS_Report (FALSE)]      sint32      WakeupOnLANMethod;
[SMS_Report (FALSE)]      sint32      WiFiCatcherChanges;
[SMS_Report (FALSE)]      sint32      WiFiLocator;
[SMS_Report (FALSE)]      sint32      WirelessDevice;
[SMS_Report (FALSE)]      sint32      WirelessLAN;
[SMS_Report (FALSE)]      sint32      WirelessSwitchBluetoothControl;
[SMS_Report (FALSE)]      sint32      WirelessSwitchCellularControl;
[SMS_Report (FALSE)]      sint32      WirelessSwitchChanges;
[SMS_Report (FALSE)]      sint32      WirelessSwitchWirelessLANControl;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Intel ASF Conf"),
SMS_Class_ID("DELL|INTELASFSETTINGS|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_IntelASFSettings : SMS_Class_Template
{
[SMS_Report (FALSE)]      boolean      ASFEnabled;
[SMS_Report (FALSE), Key]  uint32      DellInstanceID;
[SMS_Report (FALSE)]      uint8      StructureVersion;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Remote Flsh BIOS"),
SMS_Class_ID("DELL|REMOTEFLASHBIOSSETTINGS|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_RemoteFlashBIOSSettings : SMS_Class_Template
{
[SMS_Report (FALSE)]      string      Caption;
[SMS_Report (FALSE)]      sint32      CompletionCode;
[SMS_Report (FALSE), Key]  uint32      DellInstanceID;
[SMS_Report (FALSE)]      string      Description;
[SMS_Report (FALSE)]      sint32      Enableupdate;
[SMS_Report (FALSE)]      datetime    LastBIOSupdate;
[SMS_Report (FALSE)]      sint32      MinimumSizeofContiguousMemory;
[SMS_Report (FALSE)]      string      SettingID;
[SMS_Report (FALSE)]      sint32      Support;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Battery Pwr Mgmt"),
SMS_Class_ID("DELL|POWERMANAGEMENTSETTINGSONBATTERY|1.0"),
SMS_Namespace(FALSE), Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_PowerManagementSettingsOnBattery : SMS_Class_Template
{
[SMS_Report (FALSE)]      sint32      Brightness;
[SMS_Report (FALSE)]      string      Caption;
[SMS_Report (FALSE), Key]  uint32      DellInstanceID;
[SMS_Report (FALSE)]      string      Description;
[SMS_Report (FALSE)]      sint32      PowerManagementEnable;
[SMS_Report (FALSE)]      sint32      ReducedCPUClockSpeed;
[SMS_Report (FALSE)]      string      SettingID;
};
```

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```
[ SMS_Report(FALSE), SMS_Group_Name("Dell HDD Sequence"),
SMS_Class_ID("DELL|HARDDISKDRIVESEQUENCE|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_HardDiskDriveSequence : SMS_Class_Template
{
[SMS_Report (FALSE), Key]      uint32      DellInstanceID;
[SMS_Report (FALSE)]          sint32      DiskOrder;
[SMS_Report (FALSE)]          string      HardDiskName;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell AC Pwr Mgmt"),
SMS_Class_ID("DELL|POWERMANAGEMENTSETTINGS|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_PowerManagementSettings : SMS_Class_Template
{
[SMS_Report (FALSE)]          sint32      AlarmResume;
[SMS_Report (FALSE)]          sint32      Brightness;
[SMS_Report (FALSE)]          string      Caption;
[SMS_Report (FALSE), Key]      uint32      DellInstanceID;
[SMS_Report (FALSE)]          string      Description;
[SMS_Report (FALSE)]          sint32      PowerManagementCapabilities;
[SMS_Report (FALSE)]          sint32      PowerManagementEnable;
[SMS_Report (FALSE)]          sint32      ReducedCPUClockSpeed;
[SMS_Report (FALSE)]          sint32      RingEventResume;
[SMS_Report (FALSE)]          string      SettingID;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Ind Static Vals"),
SMS_Class_ID("DELL|INDICATIONSTATICVALUES|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_IndicationStaticValues : SMS_Class_Template
{
[SMS_Report (FALSE)]          string      AlertingManagedElement;
[SMS_Report (FALSE)]          uint16      AlertType;
[SMS_Report (FALSE)]          string      Caption;
[SMS_Report (FALSE)]          string      CorrelatedIndications[];
[SMS_Report (FALSE)]          string      Description;
[SMS_Report (FALSE)]          sint32      EventID;
[SMS_Report (FALSE)]          string      IndicationIdentifier;
[SMS_Report (FALSE)]          sint32      MaxDisplayNotifications;
[SMS_Report (FALSE)]          sint32      MaxNTEventLogNotifications;
[SMS_Report (FALSE), Key]      string      Name;
[SMS_Report (FALSE)]          sint32      OccurrencesCount;
[SMS_Report (FALSE)]          string      OtherAlertType;
[SMS_Report (FALSE)]          string      OtherSeverity;
[SMS_Report (FALSE)]          uint16      ProbableCause;
[SMS_Report (FALSE)]          string      ProbableCauseDescription;
[SMS_Report (FALSE)]          string      RecommendedActions[];
[SMS_Report (FALSE)]          string      SettingID;
[SMS_Report (FALSE)]          uint16      Trending;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Dynamic States"),
SMS_Class_ID("DELL|DYNAMICSTATES|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\root\\\\\\\\\\\\DellOMCI") ]
class Dell_DynamicStates : SMS_Class_Template
```

```
{
[SMS_Report (FALSE)]    sint32    ACLineStatus;
[SMS_Report (FALSE), Key] uint32    DellInstanceID;
[SMS_Report (FALSE)]    sint32    DockingStatus;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Spkr Settings"),
SMS_Class_ID("DELL|INTERNAL_SPEAKER_SETTINGS|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\root\\DellOMCI") ]
class Dell_InternalSpeakerSettings : SMS_Class_Template
{
[SMS_Report (FALSE)]    string    Caption;
[SMS_Report (FALSE), Key] uint32    DellInstanceID;
[SMS_Report (FALSE)]    string    Description;
[SMS_Report (FALSE)]    sint32    KeyboardClick;
[SMS_Report (FALSE)]    string    SettingID;
[SMS_Report (FALSE)]    sint32    SpeakerVolume;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Boot Dev Seq"),
SMS_Class_ID("DELL|BOOT_DEVICE_SEQUENCE|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\root\\DellOMCI") ]
class Dell_BootDeviceSequence : SMS_Class_Template
{
[SMS_Report (FALSE)]    string    BootDeviceName;
[SMS_Report (FALSE)]    sint32    BootOrder;
[SMS_Report (FALSE), Key] uint32    DellInstanceID;
[SMS_Report (FALSE)]    string    DeviceType;
[SMS_Report (FALSE)]    sint32    Status;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Intel AMT Conf"),
SMS_Class_ID("DELL|INTEL_AMT_SETTINGS|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\root\\DellOMCI") ]
class Dell_IntelAMTSettings : SMS_Class_Template
{
[SMS_Report (FALSE)]    boolean    AMTEnabled;
[SMS_Report (FALSE)]    boolean    AMTSupported;
[SMS_Report (FALSE), Key] uint32    DellInstanceID;
[SMS_Report (FALSE)]    boolean    IDEREnabled;
[SMS_Report (FALSE)]    boolean    NetworkEnabled;
[SMS_Report (FALSE)]    boolean    SOLEnabled;
};

[ SMS_Report(FALSE), SMS_Group_Name("Dell Product"),
SMS_Class_ID("DELL|PRODUCT|1.0"), SMS_Namespace(FALSE),
Namespace("\\\\root\\DellOMCI") ]
class Dell_Product : SMS_Class_Template
{
[SMS_Report (FALSE)]    string    Caption;
[SMS_Report (FALSE)]    string    Description;
[SMS_Report (FALSE), Key] string    IdentifyingNumber;
[SMS_Report (FALSE), Key] string    Name;
[SMS_Report (FALSE), Key] string    Vendor;
[SMS_Report (FALSE), Key] string    Version;
};
```

```
// END OMCI_SCCM.txt
```

## Appendix B – Sample Reports

The following are sample reports that may be incorporated into ConfigMgr based on the sample MOF in Appendix A. There are two methods that may be used to create new reports within the ConfigMgr console. Reports may be directly created as SQL queries. Alternately, they may be imported using `mofcomp` against a properly formed MOF file containing the report definition. The following section defines a sample query report both in SQL and MOF formats and explains how each format may be imported.

### General Information

The following is a sample report query for reporting general information on all OMCI deployed commercial systems.

The following steps may be used to create a new report from a SQL statement:

1. Navigate to the “System Center Configuration Manager -> Site Database -> Computer Management -> Reporting -> Reports” tree item, right-click on “Reports” and select “New -> Report”.
2. A “New Report Wizard” will start.
3. Fill in any necessary values (i.e. Name and Category)
4. Select the “Edit SQL Statement...” button and paste the SQL statement below in the “SQL Statement:” text box in the “Report SQL Statement” dialog box.
5. Select “OK” and then finish the “New Report Wizard”.

```
-----  
-- This sample SQL is provided as an example only, and has not been  
-- tested, nor is warranted in any way by Dell; Dell disclaims any  
-- liability in connection therewith. Dell provides no technical  
-- support with regard to content herein. For more information on  
-- SQL queries, refer to applicable documentation.  
-----
```

```
SELECT DSS.SystemName0 as 'Computer Name', DSS.Status0 as 'Global  
Health', DSS.SystemDescription0 as 'Model',  
  
case  
when DSS.SystemClass0 = 1 then 'Other'  
when DSS.SystemClass0 = 2 then 'Unknown'  
when DSS.SystemClass0 = 3 then 'Workstation'  
when DSS.SystemClass0 = 4 then 'Server'  
when DSS.SystemClass0 = 5 then 'Desktop'  
when DSS.SystemClass0 = 6 then 'Portable'  
when DSS.SystemClass0 = 7 then 'Net PC'  
else CAST(DSS.SystemClass0 as varchar)  
end as 'System Class',  
  
DSS.AssetTag0 as 'Asset Tag', DSS.ServiceTag0 as 'Service Tag',  
  
DOS.TotalVisibleMemorySize0 as 'Memory Size', DSS.BIOSVersion0 as 'BIOS  
Version', DSS.BIOSDate0 as 'BIOS Date',
```

```
case
when DSS.OperatingSystem0 = 1 then 'Other'
when DSS.OperatingSystem0 = 2 then 'Unknown'
when DSS.OperatingSystem0 = 9 then 'Windows 2000'
when DSS.OperatingSystem0 = 10 then 'Windows XP'
when DSS.OperatingSystem0 = 11 then 'Windows Server 2003'
when DSS.OperatingSystem0 = 12 then 'Windows Vista'
when DSS.OperatingSystem0 = 13 then 'Windows Server 2008'
else CAST(DSS.OperatingSystem0 as varchar)
end as 'Operating System',

DOS.Version0 as 'OS Version', DOS.LastBootUpTime0 as 'Last Boot Up
Time'

FROM v_GS_Dell_System_Summary0 as DSS
LEFT JOIN v_GS_Dell_Operating_System0 as DOS on DSS.ResourceID =
DOS.ResourceID
LEFT JOIN v_GS_Dell_Processor0 as DProc on DSS.ResourceID =
DProc.ResourceID
ORDER BY DSS.SystemName0
```

The following is a representation of the above report query presented as a MOF that may be (optionally) compiled into the ConfigMgr system using mofcomp rather than the SQL query approach described above. The following steps may be used to import the report using the MOF format:

1. Copy and paste the following text (up to the “// \*\*\*\*\* End \*\*\*\*\*” statement) into a local file (e.g. c:\temp\OMCI\_System\_Report\_Export.MOF) on the site server system.
2. Then perform a mofcomp of the newly created file. Execute (NOTE: replace “<site\_code>” with the actual site code):  
mofcomp -N:root\SMS\site\_<site\_code> -  
instance:createonly c:\temp\OMCI\_System\_Report\_Export.MOF

```
//-----
// This sample SQL is provided as an example only, and has not been
// tested, nor is warranted in any way by Dell; Dell disclaims any
// liability in connection therewith. Dell provides no technical
// support with regard to content herein. For more information on
// SQL queries, refer to applicable documentation.
//-----
// ***** Class : SMS_Report *****
[SecurityVerbs(140551)]
instance of SMS_Report
{
    Category = "Hardware - General";
    Comment = "List of all Dell OMCI systems";
    DrillThroughColumns = {};
    GraphCaption = "";
    GraphXCol = 1;
    GraphYCol = 2;
    MachineDetail = TRUE;
    MachineSource = FALSE;
```

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```
Name = "All Dell OMCI System List";
NumPrompts = 0;
RefreshInterval = 0;

SecurityKey = "";
SQLQuery = "SELECT DSS.SystemName0 as 'Computer Name',
DSS.Status0 as 'Global Health', DSS.SystemDescription0 as 'Model',
\n
\nncase
\nwhen DSS.SystemClass0 = 1 then 'Other'
\nwhen DSS.SystemClass0 = 2 then 'Unknown'
\nwhen DSS.SystemClass0 = 3 then 'Workstation'
\nwhen DSS.SystemClass0 = 4 then 'Server'
\nwhen DSS.SystemClass0 = 5 then 'Desktop'
\nwhen DSS.SystemClass0 = 6 then 'Portable'
\nwhen DSS.SystemClass0 = 7 then 'Net PC'
\nelse CAST(DSS.SystemClass0 as varchar)
\nend as 'System Class',
\n
\nDSS.AssetTag0 as 'Asset Tag', DSS.ServiceTag0 as 'Service Tag',
\n
\nDOS.TotalVisibleMemorySize0 as 'Memory Size', DSS.BIOSVersion0 as
'BIOS Version', DSS.BIOSDate0 as 'BIOS Date',
\n
\nncase
\nwhen DSS.OperatingSystem0 = 1 then 'Other'
\nwhen DSS.OperatingSystem0 = 2 then 'Unknown'
\nwhen DSS.OperatingSystem0 = 9 then 'Windows 2000'
\nwhen DSS.OperatingSystem0 = 10 then 'Windows XP'
\nwhen DSS.OperatingSystem0 = 11 then 'Windows Server 2003'
\nwhen DSS.OperatingSystem0 = 12 then 'Windows Vista'
\nwhen DSS.OperatingSystem0 = 13 then 'Windows Server 2008'
\nelse CAST(DSS.OperatingSystem0 as varchar)
\nend as 'Operating System',
\n
\nDOS.Version0 as 'OS Version', DOS.LastBootUpTime0 as 'Last Boot Up
Time'
\n
\nFROM v_GS_Dell_System_Summary0 as DSS
\nLEFT JOIN v_GS_Dell_Operating_System0 as DOS on DSS.ResourceID =
DOS.ResourceID
\nLEFT JOIN v_GS_Dell_Processor0 as DProc on DSS.ResourceID =
DProc.ResourceID
\nORDER BY DSS.SystemName0";
        StatusMessageDetailSource = FALSE;
        UnicodeData = FALSE;
        XColLabel = "";
        YColLabel = "";
};
// ***** End *****
```

## System Summary

This is a sample report for getting general information on a specific Dell OMCI system. The user will be prompted to enter a system name when this report is run. Using the prompt query in step 5c, all of the Dell OMCI systems found in the site will be presented; select the appropriate system name and a system summary report will be generated accordingly.

The following steps may be used to create a new report from a SQL statement that also includes a prompt for a system name:

1. Navigate to the “System Center Configuration Manager -> Site Database -> Computer Management -> Reporting -> Reports” tree item, right-click on “Reports” and select “New -> Report”.
2. A “New Report Wizard” will start.
3. Fill in any necessary values (i.e. Name and Category)
4. Select the “Edit SQL Statement...” button.
5. Select the “Prompts...” button. Click on new prompt button and fill in the prompt properties:
  - a. Provide “SystemName” for the “Name” field. This is a variable and the name can be changed, but then the “@SystemName” variable inside the report SQL statement (in step 6) needs to be changed to match.
  - b. Provide a Prompt text (such as “Provide a system name”) and default value (optional).
  - c. Add the following statement to the SQL statement text box. This statement will enable the report to provide a list of available OMCI systems in this site by clicking on the “Values” link when the report is run; the user can then select the system they want to pull system summary on rather than typing in a system name:

```
-----  
-- This sample SQL is provided as an example only, and has not  
-- been tested, nor is warranted in any way by Dell; Dell  
-- disclaims any liability in connection therewith. Dell  
-- provides no technical support with regard to content herein.  
-- For more information on SQL queries, refer to applicable  
-- documentation.  
-----
```

```
begin  
  if (@__filterwildcard = '')  
    SELECT DISTINCT DSS.SystemName0 FROM v_GS_Dell_System_Summary0  
  as DSS ORDER By DSS.SystemName0  
  else  
    SELECT DISTINCT DSS.SystemName0 FROM v_GS_Dell_System_Summary0  
  as DSS  
    WHERE DSS.SystemName0 like @__filterwildcard  
    ORDER By DSS.SystemName0  
end
```

- d. Select “OK” and finish the Prompt Properties dialog box, select “OK” to finish the “Prompts” dialog box.

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The above steps will provide user with a list of all Dell OMCI systems in the sites, and user can select the one interested.

6. Paste the SQL statement below in the “SQL Statement:” text box in the “Report SQL Statement” dialog box.
7. Select “OK” and then finish the “New Report Wizard”.

The SQL statements for step 6:

```
-----  
-- This sample SQL is provided as an example only, and has not been  
-- tested, nor is warranted in any way by Dell; Dell disclaims any  
-- liability in connection therewith. Dell provides no technical  
-- support with regard to content herein. For more information on  
-- SQL queries, refer to applicable documentation.  
-----
```

```
SELECT DSS.SystemName0 as 'Computer Name', DSS.Status0 as 'Global  
Health', DSS.SystemDescription0 as 'Model',
```

```
case  
when DSS.SystemClass0 = 1 then 'Other'  
when DSS.SystemClass0 = 2 then 'Unknown'  
when DSS.SystemClass0 = 3 then 'Workstation'  
when DSS.SystemClass0 = 4 then 'Server'  
when DSS.SystemClass0 = 5 then 'Desktop'  
when DSS.SystemClass0 = 6 then 'Portable'  
when DSS.SystemClass0 = 7 then 'Net PC'  
else CAST(DSS.SystemClass0 as varchar)  
end as 'System Class',
```

```
DSS.AssetTag0 as 'Asset Tag', DSS.ServiceTag0 as 'Service Tag',  
DSS.BIOSVersion0 as 'BIOS Version', DSS.BIOSDate0 as 'BIOS Date',
```

```
case  
when DSS.OperatingSystem0 = 1 then 'Other'  
when DSS.OperatingSystem0 = 2 then 'Unknown'  
when DSS.OperatingSystem0 = 9 then 'Windows 2000'  
when DSS.OperatingSystem0 = 10 then 'Windows XP'  
when DSS.OperatingSystem0 = 11 then 'Windows Server 2003'  
when DSS.OperatingSystem0 = 12 then 'Windows Vista'  
when DSS.OperatingSystem0 = 13 then 'Windows Server 2008'  
else CAST(DSS.OperatingSystem0 as varchar)  
end as 'Operating System',
```

```
DOS.Version0 as 'OS Version'  
FROM v_GS_Dell_Configuration0 as DC  
LEFT JOIN v_GS_Dell_System_Summary0 as DSS on DC.ResourceID =  
DSS.ResourceID  
LEFT JOIN v_GS_Dell_Operating_System0 as DOS on DC.ResourceID =  
DOS.ResourceID  
where DSS.SystemName0 = @SystemName  
ORDER BY DSS.SystemName0
```

```
select DProc.Caption0 as 'Caption',
```

```
case
when DProc.CPUStatus0 = 0 then 'Unknown'
when DProc.CPUStatus0 = 1 then 'CPU Enabled'
when DProc.CPUStatus0 = 2 then 'CPU Disabled by User via BIOS Setup'
when DProc.CPUStatus0 = 3 then 'CPU Disabled By BIOS (POST Error)'
when DProc.CPUStatus0 = 4 then 'CPU Is Idle'
when DProc.CPUStatus0 = 7 then 'Other'
else CAST(DProc.CPUStatus0 as varchar)
end as 'CPU Status',

DProc.DeviceID0 as 'Device ID', DProc.Manufacturer0 as 'Manufacturer',

case
when DProc.Family0 = 1 then 'Other'
when DProc.Family0 = 2 then 'Unknown'
when DProc.Family0 = 11 then 'Pentium(R) brand'
when DProc.Family0 = 12 then 'Pentium(R) Pro'
when DProc.Family0 = 13 then 'Pentium(R) II'
when DProc.Family0 = 14 then 'Pentium(R) Processor with MMX(TM)
technology'
when DProc.Family0 = 15 then 'Celeron(TM) '
when DProc.Family0 = 16 then 'Pentium(R) II Xeon(TM) '
when DProc.Family0 = 17 then 'Pentium(R) III'
when DProc.Family0 = 18 then 'M1 Family'
when DProc.Family0 = 19 then 'M2 Family'
when DProc.Family0 = 20 then 'Intel(R) Celeron(R) M processor'
when DProc.Family0 = 21 then 'Intel(R) Pentium(R) 4 HT processor'
when DProc.Family0 = 28 then 'AMD Athlon(TM) Processor Family'
when DProc.Family0 = 29 then 'AMD(R) Duron(TM) Processor'
when DProc.Family0 = 30 then 'AMD29000 Family'
when DProc.Family0 = 40 then 'Intel(R) Core(TM) Duo processor'
when DProc.Family0 = 41 then 'Intel(R) Core(TM) Duo mobile processor'
when DProc.Family0 = 42 then 'Intel(R) Core(TM) Solo mobile processor'
when DProc.Family0 = 43 then 'Intel(R) Atom(TM) processor'
when DProc.Family0 = 130 then 'Itanium(TM) Processor'
when DProc.Family0 = 131 then 'AMD Athlon(TM) 64 Processor Family'
when DProc.Family0 = 132 then 'AMD Opteron(TM) Processor Family'
when DProc.Family0 = 133 then 'AMD Sempron Processor Family'
when DProc.Family0 = 134 then 'AMD Turion 64 Mobile Technology'
when DProc.Family0 = 135 then 'Dual-Core AMD Opteron Processor Family'
when DProc.Family0 = 136 then 'AMD Athlon 64 X2 Dual-Core Processor
Family'
when DProc.Family0 = 137 then 'AMD Turion(TM) 64 X2 Mobile Technology'
when DProc.Family0 = 138 then 'Quad-Core AMD Opteron(TM) Processor
Family'
when DProc.Family0 = 139 then 'Third-Generation AMD Opteron(TM)
Processor Family'
when DProc.Family0 = 140 then 'AMD Phenom(TM) FX Quad-Core Processor
Family'
when DProc.Family0 = 141 then 'AMD Phenom(TM) X4 Quad-Core Processor
Family'
when DProc.Family0 = 142 then 'AMD Phenom(TM) X2 Dual-Core Processor
Family'
when DProc.Family0 = 143 then 'AMD Athlon(TM) X2 Dual-Core Processor
Family'
```

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```
when DProc.Family0 = 161 then 'Quad-Core Intel(R) Xeon(R) processor
3200 Series'
when DProc.Family0 = 162 then 'Dual-Core Intel(R) Xeon(R) processor
3000 Series'
when DProc.Family0 = 163 then 'Quad-Core Intel(R) Xeon(R) processor
5300 Series'
when DProc.Family0 = 164 then 'Dual-Core Intel(R) Xeon(R) processor
5100 Series'
when DProc.Family0 = 165 then 'Dual-Core Intel(R) Xeon(R) processor
5000 Series'
when DProc.Family0 = 166 then 'Dual-Core Intel(R) Xeon(R) processor LV'
when DProc.Family0 = 167 then 'Dual-Core Intel(R) Xeon(R) processor
ULV'
when DProc.Family0 = 168 then 'Dual-Core Intel(R) Xeon(R) processor
7100 Series'
when DProc.Family0 = 169 then 'Quad-Core Intel(R) Xeon(R) processor
5400 Series'
when DProc.Family0 = 170 then 'Quad-Core Intel(R) Xeon(R) processor'
when DProc.Family0 = 176 then 'Pentium(R) III Xeon(TM) '
when DProc.Family0 = 177 then 'Pentium(R) III Processor with Intel(R)
SpeedStep(TM) Technology'
when DProc.Family0 = 178 then 'Pentium(R) 4'
when DProc.Family0 = 179 then 'Intel(R) Xeon(TM) '
when DProc.Family0 = 180 then 'AS400 Family'
when DProc.Family0 = 181 then 'Intel(R) Xeon(TM) Processor MP'
when DProc.Family0 = 182 then 'AMD Athlon(TM) XP Family'
when DProc.Family0 = 183 then 'AMD Athlon(TM) MP Family'
when DProc.Family0 = 184 then 'Intel(R) Itanium(R) 2'
when DProc.Family0 = 185 then 'Intel(R) Pentium(R) M Processor'
when DProc.Family0 = 186 then 'Intel(R) Celeron(R) D Processor'
when DProc.Family0 = 187 then 'Intel(R) Pentium(R) D Processor'
when DProc.Family0 = 188 then 'Intel(R) Pentium(R) ExtremeEdition
Processor'
when DProc.Family0 = 189 then 'Intel(R) Core(TM) Solo Processor'
when DProc.Family0 = 190 then 'Intel(R) Core(TM) 2'
when DProc.Family0 = 191 then 'Intel(R) Core(TM)2 Duo Processor'
when DProc.Family0 = 192 then 'Intel(R) Core(TM)2 Solo processor'
when DProc.Family0 = 193 then 'Intel(R) Core(TM)2 Extreme processor'
when DProc.Family0 = 194 then 'Intel(R) Core(TM)2 Quad processor'
when DProc.Family0 = 195 then 'Intel(R) Core(TM)2 Extreme mobile
processor'
when DProc.Family0 = 196 then 'Intel(R) Core(TM)2 Duo mobile processor'
when DProc.Family0 = 197 then 'Intel(R) Core(TM)2 Solo mobile
processor'
when DProc.Family0 = 230 then 'Embedded AMD Opteron(TM) Quad-Core
Processor Family'
when DProc.Family0 = 231 then 'AMD Phenom(TM) Triple-Core Processor
Family'
when DProc.Family0 = 232 then 'AMD Turion(TM) Ultra Dual-Core Mobile
Processor Family'
when DProc.Family0 = 233 then 'AMD Turion(TM) Dual-Core Mobile
Processor Family'
when DProc.Family0 = 234 then 'AMD Athlon(TM) Dual-Core Processor
Family'
when DProc.Family0 = 235 then 'AMD Sempron(TM) SI Processor Family'
else CAST(DProc.Family0 as varchar)
```

```
end as 'Family',

DProc.Version0 as 'Version', DProc.Role0 as 'Role',
DProc.SocketDesignation0 as 'Socket Designation',
DProc.CurrentClockSpeed0 as 'Current Clock Speed', DProc.MaxClockSpeed0
as 'Max Clock Speed',

case
when DProc.UpgradeMethod0 = 1 then 'Other'
when DProc.UpgradeMethod0 = 2 then 'Unknown'
when DProc.UpgradeMethod0 = 3 then 'Daughter Board'
when DProc.UpgradeMethod0 = 4 then 'ZIF Socket'
when DProc.UpgradeMethod0 = 5 then 'Replacement/Piggy Back'
when DProc.UpgradeMethod0 = 6 then 'None'
when DProc.UpgradeMethod0 = 7 then 'LIF Socket'
when DProc.UpgradeMethod0 = 8 then 'Slot 1'
when DProc.UpgradeMethod0 = 9 then 'Slot 2'
when DProc.UpgradeMethod0 = 10 then '370 Pin Socket'
when DProc.UpgradeMethod0 = 11 then 'Slot A'
when DProc.UpgradeMethod0 = 12 then 'Slot M'
when DProc.UpgradeMethod0 = 13 then 'Socket 423'
when DProc.UpgradeMethod0 = 14 then 'Socket A (Socket 462)'
else CAST(DProc.UpgradeMethod0 as varchar)
end as 'Upgrade Method'

FROM v_GS_Dell_Processor0 as DProc
where DProc.SystemName0 = @SystemName
ORDER BY DProc.DeviceID0

select DPM.Caption0 as 'Caption', DPM.DeviceLocator0 as 'Location',
DPM.Capacity0 as 'Capacity', DPM.Speed0 as 'Speed',

case
when DPM.MemoryType0 = 0 then 'Unknown'
when DPM.MemoryType0 = 1 then 'Other'
when DPM.MemoryType0 = 2 then 'DRAM'
when DPM.MemoryType0 = 3 then 'Synchronous DRAM'
when DPM.MemoryType0 = 4 then 'Cache DRAM'
when DPM.MemoryType0 = 5 then 'EDO'
when DPM.MemoryType0 = 6 then 'EDRAM'
when DPM.MemoryType0 = 7 then 'VRAM'
when DPM.MemoryType0 = 8 then 'SRAM'
when DPM.MemoryType0 = 9 then 'RAM'
when DPM.MemoryType0 = 10 then 'ROM'
when DPM.MemoryType0 = 11 then 'Flash'
when DPM.MemoryType0 = 12 then 'EEPROM'
when DPM.MemoryType0 = 13 then 'FEPROM'
when DPM.MemoryType0 = 14 then 'EPROM'
when DPM.MemoryType0 = 15 then 'CDRAM'
when DPM.MemoryType0 = 16 then '3DRAM'
when DPM.MemoryType0 = 17 then 'SDRAM'
when DPM.MemoryType0 = 18 then 'SGRAM'
when DPM.MemoryType0 = 19 then 'RDRAM'
when DPM.MemoryType0 = 20 then 'DDR'
when DPM.MemoryType0 = 21 then 'DDR-2'
when DPM.MemoryType0 = 22 then 'BRAM'
```

```
when DPM.MemoryType0 = 23 then 'FB-DIMM'
when DPM.MemoryType0 = 24 then 'DDR3'
when DPM.MemoryType0 = 25 then 'FBD2'
else CAST(DPM.MemoryType0 as varchar)
end as 'Memory Type',

case
when DPM.FormFactor0 = 0 then 'Unknown'
when DPM.FormFactor0 = 1 then 'Other'
when DPM.FormFactor0 = 2 then 'SIP'
when DPM.FormFactor0 = 3 then 'DIP'
when DPM.FormFactor0 = 4 then 'ZIP'
when DPM.FormFactor0 = 5 then 'SOJ'
when DPM.FormFactor0 = 6 then 'Proprietary'
when DPM.FormFactor0 = 7 then 'SIMM'
when DPM.FormFactor0 = 8 then 'DIMM'
when DPM.FormFactor0 = 9 then 'TSOP'
when DPM.FormFactor0 = 10 then 'PGA'
when DPM.FormFactor0 = 11 then 'RIMM'
when DPM.FormFactor0 = 12 then 'SODIMM'
when DPM.FormFactor0 = 13 then 'SRIMM'
when DPM.FormFactor0 = 14 then 'SMD'
when DPM.FormFactor0 = 15 then 'SSMP'
when DPM.FormFactor0 = 16 then 'QFP'
when DPM.FormFactor0 = 17 then 'TQFP'
when DPM.FormFactor0 = 18 then 'SOIC'
when DPM.FormFactor0 = 19 then 'LCC'
when DPM.FormFactor0 = 20 then 'PLCC'
when DPM.FormFactor0 = 21 then 'BGA'
when DPM.FormFactor0 = 22 then 'FPBGA'
when DPM.FormFactor0 = 23 then 'LGA'
else CAST(DPM.FormFactor0 as varchar)
end as 'Form Factor',

DPM.Manufacturer0 as 'Manufacturer', DPM.PartNumber0 as 'Part Number',
DPM.SerialNumber0 as 'Serial Number', DPM.DataWidth0 as 'Data Width',
DPM.TotalWidth0 as 'Total Width', DPM.TypeDetail0 as 'Type Detail'

FROM v_GS_Dell_Physical_Memory0 as DPM
LEFT JOIN v_GS_Dell_System_Summary0 as DSS on DPM.ResourceID =
DSS.ResourceID
where DSS.SystemName0 = @SystemName AND DPM.Capacity0 is not NULL
ORDER BY DPM.DeviceLocator0

select DNA.Caption0 as 'Caption', DNA.DeviceID0 as 'Device ID',
DNA.CurrentNetworkAddress0 as 'Current Address', DNA.Manufacturer0 as
'Manufacturer', DNA.Product0 as 'Product Name', DNA.ServiceName0 as
'Service Name'

FROM v_GS_Dell_Network_Adapter0 as DNA
where DNA.SystemName0 = @SystemName AND DNA.CurrentNetworkAddress0 is
not NULL
ORDER BY DNA.DeviceID0
```

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```
select DSslot.Caption0 as 'Caption', DSslot.Status0 as 'Health',
DSslot.SlotDesignation0 as 'Slot ID', DSslot.Tag0 as 'Tag',

case
when DSslot.CurrentUsage0 = 0 then 'Reserved'
when DSslot.CurrentUsage0 = 1 then 'Other'
when DSslot.CurrentUsage0 = 2 then 'Unknown'
when DSslot.CurrentUsage0 = 3 then 'Available'
when DSslot.CurrentUsage0 = 4 then 'In Use'
else CAST(DSslot.CurrentUsage0 as varchar)
end as 'Current Usage',

DSslot.MaxDataWidth0 as 'Max Data Width', DSslot.PMESignal0 as 'PME
Signal',

case
when DSslot.VccMixedVoltageSupport0 = 0 then 'Unknown'
when DSslot.VccMixedVoltageSupport0 = 1 then 'Other'
when DSslot.VccMixedVoltageSupport0 = 2 then '3.3V'
when DSslot.VccMixedVoltageSupport0 = 3 then '5V'
else CAST(DSslot.VccMixedVoltageSupport0 as varchar)
end as 'Vcc Mixed Voltage Support'

FROM v_GS_Dell_Slot0 as DSslot
LEFT JOIN v_GS_Dell_System_Summary0 as DSS on DSslot.ResourceID =
DSS.ResourceID
where DSS.SystemName0 = @SystemName
ORDER BY DSslot.SlotDesignation0

select DOS.Caption0 as 'Caption', DOS.Manufacturer0 as 'Manufacturer',

case
when DSS.OperatingSystem0 = 1 then 'Other'
when DSS.OperatingSystem0 = 2 then 'Unknown'
when DSS.OperatingSystem0 = 9 then 'Windows 2000'
when DSS.OperatingSystem0 = 10 then 'Windows XP'
when DSS.OperatingSystem0 = 11 then 'Windows Server 2003'
when DSS.OperatingSystem0 = 12 then 'Windows Vista'
when DSS.OperatingSystem0 = 13 then 'Windows Server 2008'
else CAST(DSS.OperatingSystem0 as varchar)
end as 'Operating System',

DOS.Version0 as 'OS Version', DOS.BuildNumber0 as 'Build',
DOS.BuildType0 as 'Build Type', DOS.InstallDate0 as 'Install Date',
DOS.LocalDateTime0 as 'Local Date Time', DOS.LastBootUpTime0 as 'Last
Boot Up Time', DOS.TotalVisibleMemorySize0 as 'Total Memory',
DOS.TotalVirtualMemorySize0 as 'Virtual Memory',
DOS.FreePhysicalMemory0 as 'Free Physical Mem', DOS.FreeVirtualMemory0
as 'Free Virtual Mem', DOS.FreeSpaceInPagingFiles0 as 'Free Paging',
DOS.NumberOfProcesses0 as 'Number of Processes', DOS.NumberOfUsers0 as
'Number of Users', DOS.SystemDirectory0 as 'System Directory',
DOS.Locale0 as 'System Locale'

FROM v_GS_Dell_Operating_System0 as DOS
LEFT JOIN v_GS_Dell_System_Summary0 as DSS on DOS.ResourceID =
DSS.ResourceID
```

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```
where DSS.SystemName0 = @SystemName
```

## System Status

This is a sample report for collecting system health status from all Dell OMCI systems. Copy and paste the following SQL statement into a new report in the ConfigMgr console (following the steps presented in the first sample report). Note: some of the table names (i.e. v\_GS\_Dell\_Current\_Sensor0, v\_GS\_Dell\_Temp\_Sensor0) might not be applicable in some circumstances, if none of the systems offers the CIM instance data. In those cases delete the relative sections in the SQL statement.

```
-----  
-- This sample SQL is provided as an example only, and has not been  
-- tested, nor is warranted in any way by Dell; Dell disclaims any  
-- liability in connection therewith. Dell provides no technical  
-- support with regard to content herein. For more information on  
-- SQL queries, refer to applicable documentation.  
-----
```

```
SELECT DSS.SystemName0 as 'Computer Name', DSS.SystemDescription0 as  
'System Model', DSS.Status0 as 'Global Health',
```

```
case  
when DProc.CPUStatus0 = 0 then 'Unknown'  
when DProc.CPUStatus0 = 1 then 'CPU Enabled'  
when DProc.CPUStatus0 = 2 then 'CPU Disabled by User via BIOS Setup'  
when DProc.CPUStatus0 = 3 then 'CPU Disabled By BIOS (POST Error)'  
when DProc.CPUStatus0 = 4 then 'CPU Is Idle'  
when DProc.CPUStatus0 = 7 then 'Other'  
else CAST(DProc.CPUStatus0 as varchar)  
end as 'CPU Status',
```

```
case  
when DCS.Status0 = 0 then 'OK'  
when DCS.Status0 = 1 then 'Error'  
when DCS.Status0 = 2 then 'Degraded'  
when DCS.Status0 = 3 then 'Unknown'  
when DCS.Status0 = 4 then 'Pred Fail'  
when DCS.Status0 = 5 then 'Starting'  
when DCS.Status0 = 6 then 'Stopping'  
when DCS.Status0 = 7 then 'Service'  
when DCS.Status0 = 8 then 'Stressed'  
when DCS.Status0 = 9 then 'NonRecover'  
when DCS.Status0 = 10 then 'No Contact'  
when DCS.Status0 = 11 then 'Lost Comm'  
when DCS.Status0 = 12 then 'Stopped'  
else CAST(DCS.Status0 as varchar)  
end as 'Current Sensor Status',
```

```
case  
when DF.Status0 = 0 then 'OK'  
when DF.Status0 = 1 then 'Error'  
when DF.Status0 = 2 then 'Degraded'  
when DF.Status0 = 3 then 'Unknown'  
when DF.Status0 = 4 then 'Pred Fail'  
when DF.Status0 = 5 then 'Starting'
```

```
when DF.Status0 = 6 then 'Stopping'
when DF.Status0 = 7 then 'Service'
when DF.Status0 = 8 then 'Stressed'
when DF.Status0 = 9 then 'NonRecover'
when DF.Status0 = 10 then 'No Contact'
when DF.Status0 = 11 then 'Lost Comm'
when DF.Status0 = 12 then 'Stopped'
else CAST(DF.Status0 as varchar)
end as 'Fan Sensor Status',

case
when DTS.Status0 = 0 then 'OK'
when DTS.Status0 = 1 then 'Error'
when DTS.Status0 = 2 then 'Degraded'
when DTS.Status0 = 3 then 'Unknown'
when DTS.Status0 = 4 then 'Pred Fail'
when DTS.Status0 = 5 then 'Starting'
when DTS.Status0 = 6 then 'Stopping'
when DTS.Status0 = 7 then 'Service'
when DTS.Status0 = 8 then 'Stressed'
when DTS.Status0 = 9 then 'NonRecover'
when DTS.Status0 = 10 then 'No Contact'
when DTS.Status0 = 11 then 'Lost Comm'
when DTS.Status0 = 12 then 'Stopped'
else CAST(DTS.Status0 as varchar)
end as 'Temperature Sensor Status',

case
when DChassis.PowerState0 = 1 then 'Other'
when DChassis.PowerState0 = 2 then 'Unknown'
when DChassis.PowerState0 = 3 then 'OK'
when DChassis.PowerState0 = 4 then 'Warning'
when DChassis.PowerState0 = 5 then 'Critical'
when DChassis.PowerState0 = 6 then 'Non-Recoverable'
else CAST(DChassis.PowerState0 as varchar)
end as 'Chassis Power State',

case
when DChassis.ThermalState0 = 1 then 'Other'
when DChassis.ThermalState0 = 2 then 'Unknown'
when DChassis.ThermalState0 = 3 then 'OK'
when DChassis.ThermalState0 = 4 then 'Warning'
when DChassis.ThermalState0 = 5 then 'Critical'
when DChassis.ThermalState0 = 6 then 'Non-Recoverable'
else CAST(DChassis.ThermalState0 as varchar)
end as 'Chassis Thermal State',

case
when DSMBIOS.ChassisIntrusionStatus0 = 1 then 'Other'
when DSMBIOS.ChassisIntrusionStatus0 = 2 then 'Unsupported'
when DSMBIOS.ChassisIntrusionStatus0 = 3 then 'Detected'
when DSMBIOS.ChassisIntrusionStatus0 = 4 then 'Not Detected'
when DSMBIOS.ChassisIntrusionStatus0 = 5 then 'Clear'
else CAST(DSMBIOS.ChassisIntrusionStatus0 as varchar)
end as 'Chassis Intrusion State',
```

```
case
when DBIOSE.SoftwareElementState0 = 0 then 'Deployable'
when DBIOSE.SoftwareElementState0 = 1 then 'Installable'
when DBIOSE.SoftwareElementState0 = 2 then 'Executable'
when DBIOSE.SoftwareElementState0 = 3 then 'Running'
else CAST(DBIOSE.SoftwareElementState0 as varchar)
end as 'BIOS State'

FROM v_GS_Dell_System_Summary0 as DSS
LEFT JOIN v_GS_Dell_Current_Sensor0 as DCS on DSS.ResourceID =
DCS.resourceID
LEFT JOIN v_GS_Dell_Fan0 as DF on DSS.ResourceID = DF.resourceID
LEFT JOIN v_GS_Dell_Temp_Sensor0 as DTS on DSS.ResourceID =
DTS.resourceID
LEFT JOIN v_GS_Dell_Processor0 as DProc on DSS.ResourceID =
DProc.ResourceID
LEFT JOIN v_GS_Dell_Chassis0 as DChassis on DSS.ResourceID =
DChassis.ResourceID
LEFT JOIN v_GS_Dell_SMBIOS_Settings0 as DSMBIOS on DSS.ResourceID =
DSMBIOS.ResourceID
LEFT JOIN v_GS_Dell_BIOS_Element0 as DBIOSE on DSS.ResourceID =
DBIOSE.ResourceID

ORDER BY DSS.SystemName0
```

## Appendix C – Sample Queries

The following is a sample query that may be incorporated into ConfigMgr, it is based on the sample MOF in Appendix A.

### Health Query

The following is a sample query for identifying Dell OMCI systems that have been reported to have an overall health status other than “OK”.

The following steps may be used to create a new query:

1. Navigate to the “System Center Configuration Manager -> Site Database -> Computer Management -> Queries” tree item, right-click on “Queries” and select “New -> Query”.
2. A “New Query Wizard” will start.
3. Fill in any necessary values (i.e. Name) and ensure that the “Object Type” is “System Resource”.
4. Select the “Edit Query Statement...” button, a “Query Statement Properties” dialog box will open.
5. In the “Criteria” tab, select the button for a new criterion, a “Criterion Properties” dialog box will open.
  - a. Ensure that “Simple Value” is chosen for the “Criterion Type”.
  - b. Choose the “Select...” button for the “Where” field, a “Select Attribute” dialog box will open.
  - c. Choose “Dell System Summary” for the “Attribute Class”, choose “GlobalStatus” for the “Attribute”, and click “OK” to close the “Select Attribute” dialog box.
  - d. Select “is not equal to” for the “Operator”.

- e. Input "OK" as the "Value", the possible values of "Status" are:
  - OK
  - Degraded
  - Pred Fail
  - NonRecover
6. Select "OK" and then finish the "New Query Wizard".

This query may be used to create a collection of systems that currently have an overall health status other than "OK" as follows:

1. Navigate to the "System Center Configuration Manager -> Site Database -> Computer Management -> Collections" tree item, right-click on "Collections" and select "New Collection".
2. A "New Collection Wizard" will start.
3. Fill in the "Name" field and then select "Next".
4. In the "Membership Rules" click the "Query Icon" to open the "Query Rule Properties" dialog box.
  - a. Fill in the "Name" field.
  - b. Select the "Import Query Statement..." button to open the "Browse Query" dialog box.
  - c. Select the query created in the steps above and click "OK".
  - d. Click "OK" in the "Query Rule Properties" dialog box.
5. Finish the "New Collection Wizard".