WSH Shell : Assistance WMI

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Aperçu des fonctionnalités de la console WSH ShellAssistance WMI à l'aide du module _wshWmi.incMicrosoft (R) Windows Script Host Version 5.6
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Windows Script Host (WSH) Shell v1.0.0.5 starting ...

Registering components ...

Loading external modules ...
  Loading _wshAdsi.inc ...
  Loading _wshIni.inc ...
  Loading _wshWmi.inc ...

Welcome ...
It's 03/10/2007 16:37:51 and WSH Shell is up !

Ready.

WSH D:\Test> ' utilisation du module externe _wshWmi.inc
WSH D:\Test> ' tous les modules (classes) sont chargés au démarrage de la
WSH D:\Test> ' console donc il ne reste plus qu'à créer une instance
WSH D:\Test> Set oWmi=New wshWmi
WSH D:\Test> ' détermination des membres (méthodes et propriétés)
WSH D:\Test> gm(oWmi)

Category  Name
--------  ----
Function  GetClasses ()
Function  GetCollection (strClass)
Function  GetInstance (strObjectPath)
Function  GetInstances (strClass)
Function  GetProperties (Object)
Property  strComputer
Property  strNamespace
Property  Version

WSH D:\Test> ' affichage des disques logiques de la machine locale
WSH D:\Test> echo $(oWmi.GetInstances("Win32_LogicalDisk"))
Win32_LogicalDisk.DeviceID='C:'
Win32_LogicalDisk.DeviceID='D:'
Win32_LogicalDisk.DeviceID='E:'
Win32_LogicalDisk.DeviceID='F:'

WSH D:\Test> ' affichage des propriétés du disque F:
WSH D:\Test> set oDisk=oWmi.GetInstance("Win32_LogicalDisk.DeviceID='F:'")
WSH D:\Test> ft oWmi.GetProperties(oDisk),"","Value <> ""","*"

Property                Value
--------                -----
Caption                 F:
Compressed              Faux
CreationClassName       Win32_LogicalDisk
Description             Disque fixe local
DeviceID                F:
DriveType               3
```

```
FileSystem                  NTFS
FreeSpace                   74153005056
MaximumComponentLength      255
MediaType                   12
Name                        F:
Size                        80023715840
SupportsDiskQuotas          Vrai
SupportsFileBasedCompression  Vrai
SystemCreationClassName     Win32_ComputerSystem
SystemName                  FRSOB001127
VolumeName                  Backup
VolumeSerialNumber          B8FD59B1

WSH D:\Test> ' il est également possible d'afficher les propriétés de tous les
WSH D:\Test> ' disque de la machine locale
WSH D:\Test> Set colDisks=oWmi.GetCollection("Win32_LogicalDisk")
WSH D:\Test> ft oWmi.GetProperties(colDisks),"","","*"

Access  Availability  BlockSize  Caption  Compressed  ConfigManagerErrorCode ...
------  ------------  ---------  -------  ----------  ----------------------- ...
                      C:       Faux                          ...
                      D:       Faux                          ...
                      E:                                   ...
                      F:       Faux                          ...

WSH D:\Test> ' affichage de quelques propriétés uniquement
WSH D:\Test> ft oWmi.GetProperties(colDisks),"","","Caption|FileSystem|^Size$"

Caption  FileSystem  Size
-------  ----------  ----
C:       NTFS        20974428160
D:       NTFS        39028953088
E:
F:       NTFS        80023715840

WSH D:\Test> ' détermination des propriétés et méthodes de l'objet disque
WSH D:\Test> gm(oDisk)

Category  Name
--------  ----
Method    Chkdsk ()
Method    ExcludeFromAutochk ()
Method    Reset ()
Method    ScheduleAutoChk ()
Method    SetPowerState ()
Property  Access
Property  Availability
Property  BlockSize
Property  Caption
Property  Compressed
Property  ConfigManagerErrorCode
Property  ConfigManagerUserConfig
Property  CreationClassName
Property  Description
Property  DeviceID [*key*]
Property  DriveType
Property  ErrorCleared
Property  ErrorDescription
Property  ErrorMethodology
Property  FileSystem
Property  FreeSpace
Property  InstallDate
Property  LastErrorCode
Property  MaximumComponentLength
Property  MediaType
```

```
Property  Name
Property  NumberOfBlocks
Property  PNPDeviceID
Property  PowerManagementCapabilities
Property  PowerManagementSupported
Property  ProviderName
Property  Purpose
Property  QuotasDisabled
Property  QuotasIncomplete
Property  QuotasRebuilding
Property  Size
Property  Status
Property  StatusInfo
Property  SupportsDiskQuotas
Property  SupportsFileBasedCompression
Property  SystemCreationClassName
Property  SystemName
Property  VolumeDirty
Property  VolumeName
Property  VolumeSerialNumber

WSH D:\Test> ' un autre exemple
WSH D:\Test> ' détermination des produits installés sur la machine locale
WSH D:\Test> Set colProducts=oWmi.GetCollection("Win32_Product")
WSH D:\Test> ft oWmi.GetProperties(colProducts),"Name","","Name"

Name
----
Adobe Reader 7.0.5 - Français
Extension HighMAT pour l'Assistant Graver un CD de Microsoft Windows XP
Intel(R) PROSet
Microsoft .NET Framework 2.0
Microsoft Office XP Standard
QuickTime
Sonic RecordNow DX
Symantec AntiVirus
VMware Workstation
WebFldrs XP
Windows Genuine Advantage v1.3.0254.0
Windows Resource Kit Tools
Winzip 8.1 SR1 EN

WSH D:\Test> ' affichage également de la version des produits
WSH D:\Test> ' il est nécessaire de fixer la taille maximale des colonnes
WSH D:\Test> shell.nTableColumnWidth=65
WSH D:\Test> ft oWmi.GetProperties(colProducts),"Name","","Name|Version"

Name                                                Version
----                                               -------
Adobe Reader 7.0.5 - Français                         7.0.5
Extension HighMAT pour l'Assistant Graver un CD de Microsoft W...  1.1.1905.1
Intel(R) PROSet                                     6.06.2000
Microsoft .NET Framework 2.0                          2.0.50727
Microsoft Office XP Standard                        10.0.6626.0
QuickTime                                           7.0.3
Sonic RecordNow DX                                    4.60
Symantec AntiVirus                                  9.0.310
VMware Workstation                                    5.5.0.19175
WebFldrs XP                                         9.50.7523
Windows Genuine Advantage v1.3.0254.0                       1.3.0254.0
Windows Resource Kit Tools                            5.2.3790
Winzip 8.1 SR1 EN                                   1.0.0.0

WSH D:\Test> ' il est également possible de lancer cette requête sur une
WSH D:\Test> ' machine distante
```

```
WSH D:\Test> oWmi.strComputer="DEVW2K"
WSH D:\Test> Set colProducts=oWmi.GetCollection("Win32_Product")
:: An error occured (70)
:: Permission refusée

WSH D:\Test> ' Oops ! Je ne possède pas les droits nécessaires !
WSH D:\Test> ' Il est nécessaire de s'authentifier
WSH D:\Test> Set oLoc=co("WbemScripting.SWbemLocator")
WSH D:\Test> gm(oLoc)

Category  Name
--------  ----
Function  ConnectServer ([strServer], [strNamespace], [strUser], [strPassword...
Property  Security_

WSH D:\Test> ' authentification et connexion
WSH D:\Test> Set oRWmi=oLoc.ConnectServer(oWmi.strComputer,"/root/cimv2","admini
strateur","**********")
WSH D:\Test> Set colProducts=oRWmi.InstancesOf("Win32_Product")
WSH D:\Test> ft oWmi.GetProperties(colProducts),"Name","","Name|Version"

Name                                        Version
----                                        -------
ActivePerl 5.8.4 Build 810                  5.8.810
ActiveState Komodo Professional 3.0.1       3.0.1
Adobe Reader 6.0.1 - Français               006.000.001
Common Setup Files (3790.0)                 5.2.3790.0
Core SDK (Windows Server 2003) (3790.0)     5.2.3790.0
Java 2 Runtime Environment, SE v1.4.2_05    1.4.2_05
Java 2 SDK, SE v1.4.2_05                    1.4.2_05
MySQL Administrator 1.1                     1.1.6
MySQL Server 5.0                            5.0.17
VMware Tools                                3.1.0000
WebFldrs                                    9.00.3501
Windows Management Instrumentation (WMI) SDK (3790.0)  5.2.3790.0

WSH D:\Test> ' pour obtenir l'aide sur la classe wshWmi
WSH D:\Test> _gethelp * wshWmi

Name          Category  Synopsis
----          --------  --------
GetClasses    Function  Returns the complete list (array) of the classes def...
GetCollection Function  Returns a collection of instances from the specified...
GetInstance   Function  Returns an existing instance of the specified WMI cl...
GetInstances  Function  Returns the instances of the specified WMI class.
GetProperties Function  Returns the properties of an instancied WMI object c...
strComputer   Property  The netbios name or IP address of a remote computer.
strNamespace  Property  Specifies the WMI Namespace. Default to Root\cimv2.
Version       Property  Returns the class release version.

WSH D:\Test> ' Enjoy !
WSH D:\Test>
```