

Exemple : MDT avec SQL

Dans mon lab, j'ai déployé un MDT avec DFS pour les applications. Voici l'exemple complet :

Fichier customsettings.ini

```
[Settings]
Priority=DefaultGateway, TaskSequenceID, Default, MAKE, CSettings
Properties=TargetGroup

[Default]
OSInstall=Y

; Computer Details
SkipComputerName=YES
SkipDomainMembership=YES
JoinDomain=ad.khroners.fr
DomainAdmin=mdt_admin
DomainAdminDomain=ad.khroners.fr
DomainAdminPassword=Motdepasse

; Skip Task Sequence
SkipTaskSequence=NO
; TaskSequenceID=W10PRO-21H2-X64

; Drivers
DriverGroup001=WinPE x64\%Make%

; WSUS
TargetGroup=MDT

; User Data
SkipUserData=YES
```

```
; Computer Backup
SkipComputerBackup=YES

; Product Key
SkipProductKey=YES

; Language Packs
SkipPackageDisplay=YES

; Locale and Time
SkipLocaleSelection=YES
SkipTimeZone=YES
KeyboardLocale=040c: 0000040c
KeyboardLocalePE=040c: 0000040c
UserLocale=fr-FR
UILanguage=fr-FR
TimeZoneName=Romance Standard Time

; Roles and Features
SkipRoles=YES

; Applications
SkipApplications=YES

; Administrator Password
SkipAdminPassword=YES
AdminPassword=local-admin-password

; Local Administrators
SkipAdminAccounts=YES

; Capture Image
SkipCapture=YES

; Bitlocker
SkipBitLocker=YES

; Ready to begin
SkipSummary=YES
```

```
; Operating system deployment completed successfully[]
SkipFinalSummary=YES

FinishAction=REBOOT
WSUSServer=http://RN-SRV-WS-AAD01.ad.khroners.fr:8530
EventService=http://RN-SRV-WDS01:9800

[DefaultGateway]
10.29.0.254=Brest
10.35.100.254=Rennes

[Brest]
SLShare=\\BR-SRV-WDS01.ad.khroners.fr\DeploymentShare$\Logs
EventService=http://BR-SRV-WDS01:9800

[Rennes]
SLShare=\\RN-SRV-WDS01.ad.khroners.fr\DeploymentShare$\Logs
EventService=http://RN-SRV-WDS01:9800

[W10-22H2-ADM-35]
MachineObjectOU=OU=Administratifs,OU=Workstations,OU=RENNES,OU=Sites,DC=ad,DC=khroners,DC=fr

[W10-22H2-FOR-35]
MachineObjectOU=OU=Formateurs,OU=Workstations,OU=RENNES,OU=Sites,DC=ad,DC=khroners,DC=fr

[CSettings]
SQLServer=RN-SRV-WDS01.ad.khroners.fr
Instance=SQLEXPRESS
Database=MDT
Netlib=DBMSSOCN
DBID=sql_mdt
DBPWD=Motdepasse
Table=ComputerSettings
Parameters=UUID, AssetTag, SerialNumber, MacAddress
ParameterCondition=OR
```

Fichier bootstrap.ini

```
[Settings]
Priority=DefaultGateway, Default

[DefaultGateway]
10. 29. 0. 254=Brest
10. 35. 100. 254=Rennes

[Brest]
DeployRoot=\\BR- SRV- WDS01\DeploymentShare$

[Rennes]
DeployRoot=\\RN- SRV- WDS01\DeploymentShare$

[Default]
UserDomain=AD
UserID=mdt_admin
UserPassword=Motdepasse
SkipBDDWelcome=YES
```

Scripts

DeployWiz_SelectTS.vbs

J'ai modifié ce script pour utiliser la property "TaskSequenceID" dans le customsettings.ini.

```
' // *****
' //
' // Copyright (c) Microsoft Corporation. All rights reserved.
' //
' // Microsoft Deployment Toolkit Solution Accelerator
' //
' // File:      DeployWiz_Initialization.vbs
' //
' // Version:   6. 3. 8456. 1000
' //
' // Purpose:   Main Client Deployment Wizard Initialization routines
' //
```

```
' // *****
```

```
Option Explicit
```

```
.....
```

```
' Image List
```

```
'
```

```
Dim g_AllOperatingSystems
```

```
Function AllOperatingSystems
```

```
    Dim oOSes
```

```
    If isempty(g_AllOperatingSystems) then
```

```
    
```

```
        Set oOSes = new ConfigFile
```

```
        oOSes.sFileType = "OperatingSystems"
```

```
        oOSes.bMustSucceed = false
```

```
    
```

```
        Set g_AllOperatingSystems = oOSes.FindAllItems
```

```
    
```

```
    End if
```

```
    Set AllOperatingSystems = g_AllOperatingSystems
```

```
End function
```

```
Function InitializeTSList
```

```
    Dim oItem, sXPathOld
```

```
    
```

```
    If oEnvironment.Item("TaskSequenceID") <> "" and oProperties("TSGuid") = "" then
```

```
    
```

```
        sXPathOld = oTaskSequences.XPathFilter
```

```
        For each oItem in oTaskSequences.oControlFile.SelectNodes( "/"/*/*[ ID = ' " &
```

```

oEnvironment.Item("TaskSequenceID")&"' ]")
    pLogging.CreateEntry "TSGuid changed via TaskSequenceID = " &
oEnvironment.Item("TaskSequenceID"), LogTypeInfo
    pEnvironment.Item("TSGuid") = oItem.Attributes.getNamedItem("guid").value
    exit for
next

```



```

pTaskSequences.XPathFilter = sXPathOld

```



```

End if

TListBox.InnerHTML = oTaskSequences.GetHTMLEx ( "Radio", "TSGuid" )

```



```

PopulateElements
TItemChange

```



```

End function

Function TItemChange

    Dim oInput
    ButtonNext.Disabled = TRUE

```



```

    for each oInput in document.getElementsByName("TSGuid")
        If oInput.Checked then
            pLogging.CreateEntry "Found Checked Item: " & oInput.Value, LogTypeVerbose

```



```

            ButtonNext.Disabled = FALSE
        exit function
    End if
next

End function

.....

'   Validate task sequence List
'

```

Function ValidateTSList

```
Dim oTS
Dim sCmd
'ajoute
Dim oItem
Set oShell = createObject("Wscript.shell")
'

Set oTS = new ConfigFile
pTS.sFileType = "TaskSequences"

SaveAllDataElements

If Property("TSGuid") = "" then
    pLogging.CreateEntry "No valid TSGuid found in the environment.", LogTypeWarning
    ValidateTSList = false
End if

pLogging.CreateEntry "TSGuid Found: " & Property("TSGuid"), LogTypeVerbose

If oTS.FindAllItems.Exists(Property("TSGuid")) then
    pEnvironment.Item("TaskSequenceID") =
oUtility.SelectSingleNodeString(oTS.FindAllItems.Item(Property("TSGuid")), ". /ID")
End if

Set the related properties

pUtility.SetTaskSequenceProperties oEnvironment.Item("TaskSequenceID")

If oEnvironment.Item("OSGUID") <> "" and oEnvironment.Item("ImageProcessor") = "" then
    There was an OSGUID defined within the TS.xml file, however the GUID was not found
    within the OperatingSystems.xml file. Which is a dependency error. Block the wizard.
    ValidateTSList = False
    ButtonNext.Disabled = True
    Bad_OSGUID.style.display = "inline"
Else
    ValidateTSList = True
```

```

    ButtonNext.Disabled = False
    Bad_OSGUID.style.display = "none"
End if
' ajoute
    sCmd = "wscript.exe "" & oUtility.ScriptDir & "\ZTIGather.wsf""
    pItem = oShell.Run(sCmd, , true)
'
End Function

```

ZTIWindowsUpdate.wsf

J'ai modifié ce script pour ajouter la property "TargetGroup" pour cibler les PC lors du déploiement pour WSUS.

Il faut donc ajouter un groupe de PC dans WSUS.

```

<job id="ZTIWindowsUpdate">
  <script language="VBScript" src="ZTIUtility.vbs"/>
  <script language="VBScript">
' // *****
' //
' // Copyright (c) Microsoft Corporation. All rights reserved.
' //
' // Microsoft Deployment Toolkit Solution Accelerator
' //
' // File:      ZTIWindowsUpdate.wsf
' //
' // Version:   6.3.8456.1000
' //
' // Purpose:   Installs all needed updates (drivers, patches, service packs,
' //            etc.) from the Windows Update/Microsoft Update site or WSUS
' //            server, rebooting as required until no more updates are needed.
' //
' // Usage:     cscript.exe [//nologo] ZTIWindowsUpdate.wsf [/debug:true]
' //
' // *****
'

Option Explicit

```


RunNewInstance

```
' //------
' //  Global Constants
' //------

Const MSIT_WU_REBOOT_MAX = 7
Const MAX_UPDATES = 100

' //------
' //  Main Class
' //------

Class ZTIWindowsUpdate

    ' //------
    ' //  Class instance variable declarations
    ' //------

    Public globalVariable
    Private privateVariable
    '

    ' //------
    ' //  Constructor to initialize needed global objects
    ' //------

    Private Sub Class_Initialize

        ' No initialization is required

    End Sub

    '
    '
    ' //------
    ' //  Main routine
    ' //------
```

```

Function Main
    Dim iRetVal
    Dim Item
    Dim MSIT_WU_Count
    Dim MSIT_LogType
    Dim ServiceManager
    Dim bFoundMU
    Dim NewUpdateService
    Dim strCabPath
    Dim iResult
    Dim oProgress
    Dim bFailure, bReboot

    Main = Success

    Validate that are not restarting from a failed install.

    If ucase(oEnv("SystemDrive")) = "X:" Then
        pLogging.CreateEntry "Environment Error: ManualRetry (From ZTIWindowsUpdate).", LogTypeInfo

        pEnvironment.Item("LTISuspend") = "LiteTouch is trying to install Windows Updates." & _
            vbNewLine & "This cannot be performed in Windows PE." & _
            vbNewLine & "If booting from a USB Flash Disk, please remove all drives before Retrying." & _
            vbNewLine & "Otherwise, ensure the hard disk is selected first in the boot order of the BIOS"
        pEnvironment.Item("SMSTSRebootRequested") = "true"
        pEnvironment.Item("SMSTSRetryRequested") = "true"
        Main = SUCCESS
        Exit function
    End if

    '//-----
    '// Initialization
    '//-----

    MSIT_WU_Count = oEnvironment.Item("MSIT_WU_Count")
    If not IsNumeric(MSIT_WU_Count) then

```

```

MSIT_WU_Count = 0
End if

pLogging.CreateEntry "Begin Windows Update. Reboot=[" &
oEnvironment.Item("SMSTSRebootRequested") & "]" Retry=[" &
oEnvironment.Item("SMSTSRetryRequested") & "]" Count = " & MSIT_WU_Count , LogTypeInfo

MSIT_WU_Count = MSIT_WU_Count + 1
pEnvironment.Item("MSIT_WU_Count") = MSIT_WU_Count

If oEnvironment.Item("WsusServer") = "" then
pLogging.ReportProgress "Initializing Windows Update process (pass " & MSIT_WU_Count & ")", 0
Else
pLogging.ReportProgress "Initializing WSUS update process (pass " & MSIT_WU_Count & ")", 0
End if

If oEnvironment.Item("SMSTSRebootRequested") <> "" then
pEnvironment.Item("SMSTSRebootRequested") = ""
End if

If oEnvironment.Item("SMSTSRetryRequested") <> "" then
pEnvironment.Item("SMSTSRetryRequested") = ""
End if

If MSIT_WU_Count > MSIT_WU_REBOOT_MAX then
pLogging.ReportFailure "ZTIWindowsUpdate has run and failed too many times. Count = " &
MSIT_WU_Count, 9902
End if

Make sure the necessary agent is in place

iRetVal = VerifyWJA
If iRetVal = 3010 then

Initiate a reboot and ask that we be re-executed

pEnvironment.Item("SMSTSRebootRequested") = "true"
pEnvironment.Item("SMSTSRetryRequested") = "true"

```

```
Exit Function
```

```
ElseIf iRetVal <> 0 then
```

```
pLogging.ReportFailure "Unexpected issue installing the updated Windows Update Agent, rc = "  
iRetVal, 9903
```

```
End if
```

```
Opt-In to the Microsoft Update Agent
```

```
On Error Resume Next
```

```
Item = oFSO.GetFileVersion ( es("%SystemRoot%\System32\WUAUENG.DLL" ) )
```

```
pLogging.CreateEntry "Ready to Opt-In to Microsoft Update: WUA Version: " & Item , LogTypeInfo
```

```
Set ServiceManager = nothing
```

```
Set ServiceManager = CreateObject("Microsoft.Update.ServiceManager")
```

```
On Error Goto 0
```

```
If ServiceManager is nothing then
```

```
pLogging.CreateEntry "Failed to Create Object: Microsoft.Update.ServiceManager" ,  
LogTypeWarning
```

```
Else
```

```
ServiceManager.ClientApplicationID = "ZTIWindowsUpdate " & Version
```

```
bFoundMU = False
```

```
For each Item in ServiceManager.Services
```

```
WScript.Echo "Registered Update Service: " & Item.ServiceID & " " & Item.Name
```

```
If Item.ServiceID = "7971f918- a847- 4430- 9279- 4a52d1efe18d" then
```

```
bFoundMU = True
```

```
End if
```

```
Next
```

```
pLogging.CreateEntry "Microsoft Update Service: Enabled = " & bFoundMU, LogTypeInfo
```

```
If not bFoundMU then
```

```
On Error Resume Next
```

```
Err.clear
```

```
If Err.Number <> 0 then
```

```
pLogging.CreateEntry "There was an error getting Windows Update to opt into Microsoft Upda  
Please verify you are running the latest version of Windows Update Agent." , LogTypeWarning
```

```

End if
End Sub
If oEnvironment.Item("WsusServer") = "" then

    '-----
    ' // Try to find the standalone muauth.cab file and install from it
    '-----
    '
    ' From http://download.windowsupdate.com/v9/microsoftupdate/redir/muauth.cab
    '
    ' Place this file in the Distribution\Tools folder so this script can find them.
    iResult = oUtility.FindFile("muauth.cab", strCabPath)

    If iResult <> Success then
        ' // "" will force a internet search for cab file
        strCabPath = ""
    End if

    pLogging.CreateEntry " about to begin add service [" + strCabPath + "]", LogTypeInfo
    '
    Set NewUpdateService = ServiceManager.AddService2("7971f918- a847- 4430- 9279-
4a52d1efe18d", 6, strCabPath)
    pLogging.CreateEntry " Status: " & NewUpdateService.RegistrationState, LogTypeInfo
End if

On error goto 0
End if
End if

'-----
' // Process the command line
'-----

Dim IsRegistered, Query_Only, UpdateCommand, BadKBArticlesList
Dim BadGUIDList

Query_Only = FALSE or WScript.Arguments.Named.Exists("QUERY")
IsRegistered = FALSE

```

```

If WScript.Arguments.Unnamed.Count > 0 then
    UpdateCommand = WScript.Arguments.Unnamed.Item(0)
    ElseIf Ucase(oEnvironment.Item("DoCapture")) = "YES" or Ucase(oEnvironment.Item("DoCapture"))
= "PREPARE" then
    UpdateCommand = "IsInstalled = 0 and IsHidden = 0 and Type = 'Software' "
    Else
    UpdateCommand = "IsInstalled = 0 and IsHidden = 0"
End if

```

```

    Check to see if this version of Windows has been registered

```

```

IsRegistered = FALSE
On Error Resume Next
For each Item in objWMI.InstancesOf("Win32_WindowsProductActivation")
    IsRegistered = Item.ActivationRequired = 0
Exit for
Next
On Error Goto 0

```

```

pLogging.CreateEntry "Command Line Procesed Query=" & Query_Only & " Registered=" &
IsRegistered & " UpdateCommand=[" & UpdateCommand & "]" , LogTypeInfo

```

```

Set BadKBArticlesList = oEnvironment.ListItem("WUMU_ExcludeKB")
Set BadGUIDList = oEnvironment.ListItem("WUMU_ExcludeID")

```

```

//-----
// Search Windows Update
//-----

```

```

pLogging.ReportProgress "Searching for updates", 0

```

```

Dim UpdateSession, searchResults, updatesToDownload
Dim Downloader, Installer, UpdateResult
Dim kbArticle, bInstall, kb, iSize
Dim i

```

```

On Error Resume Next
Set updateSession = CreateObject("Microsoft.Update.Session")
Set updatesToDownload = CreateObject("Microsoft.Update.UpdateColl")
On Error Goto 0

If updateSession is nothing then
    pLogging.ReportFailure "Failed to Create Object: Microsoft.Update.Session.", 9904
End if
If updatesToDownload is nothing then
    pLogging.ReportFailure "Failed to Create Object: Microsoft.Update.UpdateColl.", 9905
End if
updateSession.ClientApplicationID = "ZTIWindowsUpdate " & Version

pLogging.CreateEntry "Start Search..." , LogTypeInfo
On Error Resume Next
Set searchResults = updateSession.CreateupdateSearcher().Search(UpdateCommand)
If Err then
    If Err.Number = &h8024402c then
        pLogging.CreateEntry "Error searching for updates: Not Connected to Internet? (" & Err.Number & ")", LogTypeInfo
        Main = Success
    ElseIf Err.Number = &h80072ee2 then
        pLogging.CreateEntry "Error searching for updates: ERROR_INTERNET_TIMEOUT: Retry! (" & Err.Number & ")", LogTypeInfo
        pEnvironment.Item("SMSTSRebootRequested") = "true"
        pEnvironment.Item("SMSTSRetryRequested") = "true"
    ElseIf Err.Number = &h80244010 then
        pLogging.CreateEntry "Timeout Error WU_E_PT_EXCEEDED_MAX_SERVER_TRIPS : Retry! (" & Err.Number & ")", LogTypeInfo
        See: http://blogs.technet.com/sus/archive/2008/09/18/wsus-clients-fail-with-warning-syncserverupdatesinternal-failed-0x80244010.aspx
        pEnvironment.Item("SMSTSRebootRequested") = "false"
        pEnvironment.Item("SMSTSRetryRequested") = "true"

    Else
        TestAndLog err = 0, "Windows Update, search for updates."
        Main = Failure
    End if

```

```

    CleanupWhenDone
Exit Function
End if
On Error Goto 0

pLogging.ReportProgress "Processing " & searchResults.Updates.Count & " updates.", 0
For each item in searchResults.Updates

    bInstall = TRUE

    On Error Resume Next

    item.AcceptEula

    If item.InstallationBehavior.CanRequestUserInput then
        bInstall = FALSE ' Do NOT install anything that can Request User Input!
    End if

    For each kb in Item.Categories
        if ucase(kb.Name) = "DRIVERS" then
            bInstall = TRUE ' Some XP drivers may be marked as CanRequestUserInput. Override!
        exit for
        elseif ucase(kb.Name) = "WINDOWS VISTA ULTIMATE LANGUAGE PACKS" then
            bInstall = FALSE ' Most users don't want *ALL* Language Packs. Too much. Override!
        exit for
    end if
Next

    If BadKBArticlesList.Count > 0 then
        For each kbArticle in item.KBArticleIDs
            For each kb in BadKBArticlesList
                If lcase(kb) = lcase(kbArticle) then
                    bInstall = FALSE ' Do NOT install any patch in the Bad KB articles list!
                End if
            Next
        Next
    Next
End if

```



```

For each kbArticle in BadGUIDList
    If lcase(item.Identity.UpdateID) = lcase(kbArticle) then
        bInstall = FALSE ' Do NOT install any patch in the Bad GUID articles list!
    End if
Next

iSize = empty
kb = ""
for i = 0 to item.KBArticleIDs.Count - 1
    If instr(1, Item.Title, item.KBArticleIDs(i), vbTextCompare) = 0 then
        bStrings.AddToList kb, "KB" & item.KBArticleIDs(i), " "
    End if
next
iSize = item.MinDownloadSize
If item.MaxDownloadSize > 0 then
    iSize = Item.MaxDownloadSize
End if
If kb <> "" then
    kb = " [ " & kb & " ]"
End if
If iSize > 0 then
    kb = kb & " - " & FormatLargeSize(iSize)
End if

If bInstall = TRUE and updatesToDownload.count < MAX_UPDATES then
    pLogging.CreateEntry "INSTALL - " & item.Identity.UpdateID & " - " & Item.Title & kb,
    LogTypeInfo
    updatesToDownload.Add(Item)
Else
    pLogging.CreateEntry " SKIP - " & item.Identity.UpdateID & " - " & Item.Title & kb,
    LogTypeInfo
End if

On Error Goto 0

Next

pLogging.CreateEntry "Scan complete, ready to install updates. Count = " &

```

```
updatesToDownload.Count, LogTypeInfo
```

```
    If updatesToDownload.Count = 0 or Query_Only then
```

```
        pLogging.CreateEntry "This computer is up to date (Success)" , LogTypeInfo
```

```
        pEnvironment.Item("MSIT_WU_Count") = "" ' Reset the counter
```

```
    CleanupWhenDone
```

```
    Main = Success
```

```
    Exit Function
```

```
End Sub
```

```
End If
```

```
    If MSIT_WU_Count > MSIT_WU_REBOOT_MAX - 1 then
```

```
        MSIT_LogType = LogTypeWarning
```

```
    Else
```

```
        MSIT_LogType = LogTypeInfo
```

```
    End If
```

```
    '-----
```

```
    ' Download binaries
```

```
    '-----
```

```
    Set oProgress = new Progress
```

```
    pLogging.CreateEntry "Begin Downloading...", LogTypeInfo
```

```
    Set Downloader = updateSession.CreateUpdateDownloader()
```

```
    Downloader.Updates = UpdatesToDownload
```

```
    Set UpdateResult = Downloader.BeginDownload(oProgress, oProgress, vbNull)
```

```
    On Error Resume Next
```

```
    While not UpdateResult.IsCompleted
```

```
        pLogging.ReportProgress "Downloading " &
```

```
UpdatesToDownload(UpdateResult.GetProgress.CurrentUpdateIndex).Title,
```

```
UpdateResult.GetProgress.PercentComplete
```

```
        WScript.Sleep 500
```

```
    Wend
```

```

On Error Goto 0

For item = 0 to UpdatesToDownload.Count - 1
    If not UpdatesToDownload.Item(item).IsDownloaded then
        pLogging.CreateEntry "    Failed to download: " &
UpdatesToDownload.Item(item).Identity.UpdateID & _
        "" result(" & UpdateResult.GetProgress.GetUpdateResult(item).ResultCode & ") : " &
UpdatesToDownload.Item(item).Title, MSIT_LogType
    End if
Next

On Error Resume Next
Downloader.EndDownload UpdateResult
On Error Goto 0

//-----
//  Install Binaries
//-----

pLogging.CreateEntry "Begin Installation...", LogTypeInfo

Set Installer = updateSession.CreateUpdateInstaller()
Installer.Updates = UpdatesToDownload
Set UpdateResult = nothing

On Error Resume Next
Set UpdateResult = Installer.BeginInstall(oProgress, oProgress, vbNull)
If UpdateResult is nothing then

    Some unknown error returned from the installer, reboot and try again.

    pLogging.CreateEntry "Installer.Install() returned Unknown failure! " & err.number & " " &
Err.Description, LogTypeInfo
    pEnvironment.Item("SMSTSRebootRequested") = "true"
    pEnvironment.Item("SMSTSRetryRequested") = "true"
    Exit Function

End if

```

```

On Error Goto 0

On Error Resume Next
While not UpdateResult.IsCompleted
    pLogging.ReportProgress "Installing " &
UpdatesToDownload(UpdateResult.GetProgress.CurrentUpdateIndex).Title,
UpdateResult.GetProgress.PercentComplete
    WScript.Sleep 500
WEnd
On Error Goto 0

bReboot = False
bFailure = False
For item = 0 to UpdatesToDownload.Count - 1
    If not UpdatesToDownload.Item(item).IsInstalled then
        If UpdateResult.GetProgress.GetUpdateResult(item).ResultCode <> 2 then
            pLogging.CreateEntry "      " & UpdatesToDownload.Item(item).Identity.UpdateID & _
            "      " result(" & UpdateResult.GetProgress.GetUpdateResult(item).ResultCode & " / HR = " &
            hex(UpdateResult.GetProgress.GetUpdateResult(item).HResult) & _
            "      " ) : " & UpdatesToDownload.Item(item).Title , MSIT_LogType
            bFailure = True
        End if
        If UpdateResult.GetProgress.GetUpdateResult(item).RebootRequired then
            bReboot = True
        End if
    End if
Next

On Error Resume Next
Installer.EndInstall UpdateResult
On Error Goto 0

//-----
// Cleanup
//-----

If bFailure then

```

```

    pLogging.CreateEntry "Failure, Please run again!" , LogTypeInfo
    pEnvironment.Item("SMSTSRetryRequested") = "true"
    pEnvironment.Item("SMSTSRebootRequested") = "true"

    ElseIf bReboot then

    pLogging.CreateEntry "More to install, Please reboot and run again!" , LogTypeInfo
    pEnvironment.Item("SMSTSRetryRequested") = "true"
    pEnvironment.Item("SMSTSRebootRequested") = "true"

    Else
    '
    ' A recently installed MicrosoftUpdate/WindowsUpdate component *may* require more/new updates
    ' Rerun Main() to ensure that all updates are installed. Exit above when MU/WU returns NO
    ' updates.

    pLogging.CreateEntry "Success! Please rerun WindowsUpdate to ensure machine is FULLY up to
    date." , LogTypeInfo
    Main = Main()

    If LCase(oEnvironment.Item("SMSTSRetryRequested")) <> "true" then
        CleanupWhenDone
    End if

    End if

End function

'-----
' // Functions
'-----

Function CleanupWhenDone

Dim NoAutoUpdateState
NoAutoUpdateState = oEnvironment.Item("NoAutoUpdate_Previous")

```

```

If NoAutoUpdateState = "<empty>" or NoAutoUpdateState= "" then
    pLogging.CreateEntry "Restore NoAutoUpdateKey to <empty>.", LogTypeInfo
    On Error Resume Next
    pShell.RegDelete
    "HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAutoUpdate"
    On Error Goto 0
    ElseIf NoAutoUpdateState <> "" then
        pLogging.CreateEntry "Restore NoAutoUpdateKey to " & NoAutoUpdateState, LogTypeInfo
        pShell.RegWrite
        "HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAutoUpdate",
        NoAutoUpdateState, "REG_DWORD"
    Else
        pLogging.CreateEntry "Unknown previous NoAutoUpdateKey State, Do Nothing [" &
        NoAutoUpdateState & "].", LogTypeInfo
    End if
End Function

Function VerifyWUA

    Dim iResult
    Dim strExePath, bUpdateNeeded, objAgentInfo
    Dim intMajorVersion
    Dim sArchitecture
    Dim iNoAutoUpdate

    '//-----
    '// Ensure the desired tracing registry entries are in place
    '//-----

    On error resume next

    If UCase(oEnvironment.Item("Debug")) = "TRUE" then

        pShell.RegWrite "HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\Level", 3
        "REG_DWORD"

```

```

    pShell.RegWrite
    "HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\Handler\Flags",
    &h000000ff, "REG_DWORD"

    pShell.RegWrite
    "HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\Handler\Level", 3,
    "REG_DWORD"

    pShell.RegWrite
    "HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\COMAPI\Flags", &h000000ff,
    "REG_DWORD"

    pShell.RegWrite
    "HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\COMAPI\Level", 3,
    "REG_DWORD"

    On error goto 0

End if

'-----
' //  Configure Windows Update settings
'-----

If oEnvironment.Item("WsusServer") <> "" then

    Configure the WSUS server in the registry.  This needs to be a URL (e.g. http://myserver).

    pLogging.CreateEntry "Configuring client to use WSUS server " &
    oEnvironment.Item("WsusServer"), LogTypeInfo

    pShell.RegWrite
    "HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\WUSever",
    oEnvironment.Item("WsusServer"), "REG_SZ"

    pShell.RegWrite
    "HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\WUStatusServer",
    oEnvironment.Item("WsusServer"), "REG_SZ"

    ' ajoute

    If oEnvironment.Item("TargetGroup") <> "" then
        pShell.RegWrite
        "HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\TargetGroup",
        oEnvironment.Item("TargetGroup"), "REG_SZ"
    
```

```

    pShell.RegWrite
    "HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\TargetGroupEnabled",
    00000001, "REG_DWORD"
End if
'

End if

pLogging.CreateEntry "Configuring Windows Update settings (manual update, use server)",
LogTypeInfo

If oEnvironment.Item("NoAutoUpdate_Previous") = "" then
    On Error Resume Next
    iNoAutoUpdate =
oShell.RegRead("HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAuto
Update")
    If iNoAutoUpdate = "" then
        iNoAutoUpdate = "<empty>"
    End if
    pLogging.CreateEntry "Archive NoAUtoUpdate State: Was [" & iNoAutoUpdate & "].", LogTypeInfo
    pEnvironment.Item("NoAutoUpdate_Previous") = iNoAutoUpdate
    On Error Goto 0
End if

pShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\UseWUSever", 1,
"REG_DWORD"
pShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAutoUpdate", 1,
"REG_DWORD"

Restart the service to get the latest settings

pShell.Run "net stop wuauclt", 0, true
pShell.Run "net start wuauclt", 0, true

//-----
// Ensure the needed Windows Update Agent version is installed

```



```

[] //-----

[]bUpdateNeeded = True ' init value, do not touch

[] See if the version is sufficient

[]On Error Resume Next
[]Set objAgentInfo = CreateObject("Microsoft.Update.AgentInfo")
[]If Err.Number = 0 then

[][] Make sure ApiMajorVersion is 4 or higher (Version 4 is needed to opt-in to Microsoft Update

[][]intMajorVersion = 0 ' init value
[][]intMajorVersion = objAgentInfo.GetInfo("ApiMajorVersion")
[][]If intMajorVersion >= 4 Then
[][]bUpdateNeeded = False
[][]pLogging.CreateEntry "Windows Update Agent version " & intMajorVersion & " found, OK to
continue", LogTypeInfo
[][]Else
[][]pLogging.CreateEntry "Windows Update Agent version " & intMajorVersion & " found, upgrade
needed", LogTypeInfo
[][]End if

[]Else
[]pLogging.CreateEntry "Unable to create Microsoft.Update.AgentInfo object, Windows Update Agen
upgrade is needed", LogTypeInfo
[]End if

[]If not bUpdateNeeded then
[][]VerifyWUA = 0
[][]Exit Function
[]End if

[] //-----
[] // Try to find the standalone installer file and install from it
[] //-----

```

```

[] From http://technet.microsoft.com/en-us/library/bb932139.aspx, you can obtain the
[] Windows Update Agent stand-alone installer from:
[]
[] http://go.microsoft.com/fwlink/?LinkID=100334 (WindowsUpdateAgent30-x86.exe)
[] http://go.microsoft.com/fwlink/?LinkID=100335 (windowsupdateagent30-x64.exe)
[]
[] Place these files in the Distribution\Tools\<platform> folder so this script can find them.
```

```

[]sArchitecture = lcase(oEnvironment.Item("Architecture"))
[]If sArchitecture = "" then
[]sArchitecture = lcase(EES("%Processor_Architecture%"))
[]End if
[]If sArchitecture = "amd64" then
[]sArchitecture = "x64"
[]End if

[]iResult = oUtility.FindFile("WindowsUpdateAgent30-" & sArchitecture & ".exe", strExePath)
[]If iResult = Success then
[]pLogging.CreateEntry "About to install updated Windows Update Agent from " & strExePath,
LogTypeInfo
[]iResult = oShell.Run(strExePath & " /quiet /norestart", 0, true)
[]pLogging.CreateEntry "Windows Update Agent installation return code = " & iResult, LogTypeInfo
[]VerifyWUA = 3010
[]Exit Function
[]End if

[]pLogging.CreateEntry "Unable to find WindowsUpdateAgent30-" & sArchitecture & ".exe, will
attempt to download", LogTypeInfo
```

```

[] //-----
[] //  Download the Windows Update Agent
[] //-----
```

```

[] See http://msdn2.microsoft.com/en-us/library/aa387285.aspx for the basic logic used here.
```

```
Dim sWURedistCab, oWUXML, sFileVer1, sFileVer2, sWUDownload
```

```
sWURedistCab = InternetFileDownload("http://update.microsoft.com/redist/wuredist.cab")
```

```
VerifyCriticalFile sWURedistCab, "wuredist.cab"
```

```
Extract XML File
```

```
pUtility.RunWithHeartbeat ees("Expand.exe -r " & sWURedistCab & " -F: wuRedist.xml %temp%")
```

```
VerifyCriticalFile "%Temp%\WURedist.xml", "wuRedist.xml"
```

```
Load XML File
```

```
Set oWUXML = oUtility.CreateXMLDOMObjectEx(EES("%Temp%\WURedist.xml"))
```

```
If oWUXML is nothing then
```

```
pLogging.CreateEntry "Failed to load: %Temp%\WURedist.xml" , LogTypeError
```

```
VerifyWUA = 1
```

```
Exit function
```

```
End if
```

```
Get Local File Version
```

```
sFileVer1 = oFSO.GetFileVersion ( ees("%SystemRoot%\System32\WJAUENG.DLL" ) )
```

```
pLogging.CreateEntry "Current Version %SystemRoot%\System32\WJAUENG.DLL : " & sFileVer1 ,  
LogTypeInfo
```

```
Get New File Version
```

```
sFileVer2 = oWUXML.selectSingleNode ("//WURedist/StandaloneRedist/architecture[ @name=' " &  
sArchitecture & "' ]/@clientVersion").Text
```

```
pLogging.CreateEntry "Current Version wuredist.cab : " & sFileVer2 , LogTypeInfo
```

```
Download and install if file Versions don't match
```

```

If sFileVer1 <> sFileVer2 then
    $WUDownload = InternetFileDownload( oWUXML.DocumentElement.selectSingleNode
("//WURedist/StandaloneRedist/architecture[@name=' " & sArchitecture & "']/@downloadUrl").Text
)
    VerifyCriticalFile $WUDownload, "WUDownload.exe"
    iResult = oUtility.RunWithHeartbeat($WUDownload & " /wuforce /quiet /norestart")

    VerifyWUA = iResult
Exit Function
End if

Cleanup

On Error Resume Next
For each item in array ( $WURedistCab, EES("%Temp%\WURedist.xml"), $WUDownload )
    If oFSO.FileExists(item) then
        oFSO.DeleteFile item
    End if
Next
On Error Goto 0

End Function

Function InternetFileDownload( InternetURL )
    Dim InternetBuffer
    Dim ADODB

    Set ADODB = CreateObject("ADODB.Stream")
    Set InternetBuffer = CreateObject("Msxml2.XmlHttp")
    InternetBuffer.open "GET", InternetURL , false
    On Error Resume Next
    InternetBuffer.send ""
    On Error Goto 0

    If InternetBuffer.ReadyState = 4 then
        oLogging.CreateEntry "Status: " & InternetBuffer.Status & " " & InternetURL, LogTypeInfo
    Else

```

```

    pLogging.CreateEntry "Ready State : " & InternetBuffer.ReadyState & " " & InternetURL ,
    LogTypeWarning
End if

If InternetBuffer.Status = 200 then
    If ADODB.State <> 0 then ADODB.Close
    ADODB.Type = 1 ' (1=binary, 2=Text)
    ADODB.Mode = 3 ' (1=Read, 2=Write, 3=RW)
    ADODB.Open
    ADODB.Write InternetBuffer.ResponseBody
    ADODB.SaveToFile EES( "%temp%" & oFSO.GetFileName(InternetURL) ) , 2
    ADODB.Close
End if

If InternetBuffer.Status = 200 then
    InternetFileDownload = EES( "%temp%" & oFSO.GetFileName(InternetURL) )
End if

End function

Function FormatLargeSize( lSize )

    Dim i
    For i = 1 to len(" KMGTPPEZY")
        If cdbl(lSize) < 1024 ^ i then
            FormatLargeSize = int(cdbl(lSize)/(1024^(i-1))) & " " & mid(" KMGTPPEZY", i, 1) & "B"
            Exit function
        End if
    Next

End function

Function EES ( EnvStr )
    EES = oShell.ExpandEnvironmentStrings( EnvStr )
End function

Sub VerifyCriticalFile (FileName, Description)

```

```

If FileName = "" or not oFSO.FileExists(ees(FileName)) then
    pLogging.CreateEntry Description & " not found: " & FileName , LogTypeError
    pLogging.CreateEntry "    Most likely cause: No Internet Access or unconfigured Proxy
settings!", LogTypeError
    pLogging.ReportFailure "Critical file " & FileName & " was not found, aborting", 9906
End if

End sub

End Class

Class Progress
    Public Default Function Process
    End Function
End Class
</script>
</job>

```

Raccourcis.ps1

Ce script me permet d'ajouter des raccourcis dans le bureau public de l'ordinateur.

```

# Raccourci Office.com avec icône
Copy-Item "\\RN-SRV-WDS01.ad.khroners.fr\GP0$\Raccourcis\Office.ico" -Destination
"C:\Office.ico"

$TargetFile = "https://www.office.com/"
$shortcutFile = "C:\Users\Public\Desktop\Portail Office Web.lnk"
$WScriptShell = New-Object -ComObject WScript.Shell
$shortcut = $WScriptShell.CreateShortcut($ShortcutFile)
$shortcut.TargetPath = $TargetFile
$shortcut.IconLocation = "C:\Office.ico"
$shortcut.Save()

# Raccourcis suite Microsoft365
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Word.lnk" -Destination
"c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Excel.lnk" -Destination
"c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\PowerPoint.lnk" -

```

```
Destination "c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\OneNote.lnk" -
Destination "c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Outlook.lnk" -
Destination "c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Publisher.lnk" -
Destination "c:\users\Public\Desktop" -Force
```

Install_Drivers.ps1

Ce script me permet de télécharger les pilotes via Windows Update.

```
$Session = New-Object -ComObject Microsoft.Update.Session
$Searcher = $Session.CreateUpdateSearcher()

$Searcher.ServiceID = '7971f918-a847-4430-9279-4a52d1efe18d'
$Searcher.SearchScope = 1 # MachineOnly
$Searcher.ServerSelection = 3 # Third Party

$Criteria = "IsInstalled=0 and Type='Driver'"
Write-Host('Searching Driver-Updates...') -Fore Green
$SearchResult = $Searcher.Search($Criteria)
$Updates = $SearchResult.Updates
[]
#Show available Drivers...
$Updates | select Title, DriverModel, DriverVerDate, Driverclass, DriverManufacturer | fl

$UpdatesToDownload = New-Object -Com Microsoft.Update.UpdateColl
$updates | % { $UpdatesToDownload.Add($_) | out-null }
Write-Host('Downloading Drivers...') -Fore Green
$updateSession = New-Object -Com Microsoft.Update.Session
$Downloader = $updateSession.CreateUpdateDownloader()
$Downloader.Updates = $UpdatesToDownload
$Downloader.Download()

$UpdatesToInstall = New-Object -Com Microsoft.Update.UpdateColl
$updates | % { if($_.IsDownloaded) { $UpdatesToInstall.Add($_) | out-null } }

Write-Host('Installing Drivers...') -Fore Green
```

```
$Installer = $UpdateSession.CreateUpdateInstaller()
$Installer.Updates = $UpdatesToInstall
$InstallationResult = $Installer.Install()
if($InstallationResult.RebootRequired) {
Write-Host('Reboot required! please reboot now..') -Fore Red
} else { Write-Host('Done..') -Fore Green }

$updateSvc.Services | ? { $_.IsDefaultAUService -eq $false -and $_.ServiceID -eq "7971f918-
a847-4430-9279-4a52d1efe18d" } | % { $UpdateSvc.RemoveService($_.ServiceID) }
```

RestoreREG.ps1

Ce script permet de restaurer le registre suite à ma modification de ce dernier avant le déploiement : [Modifier le registre d... | Docs Khroners](#)

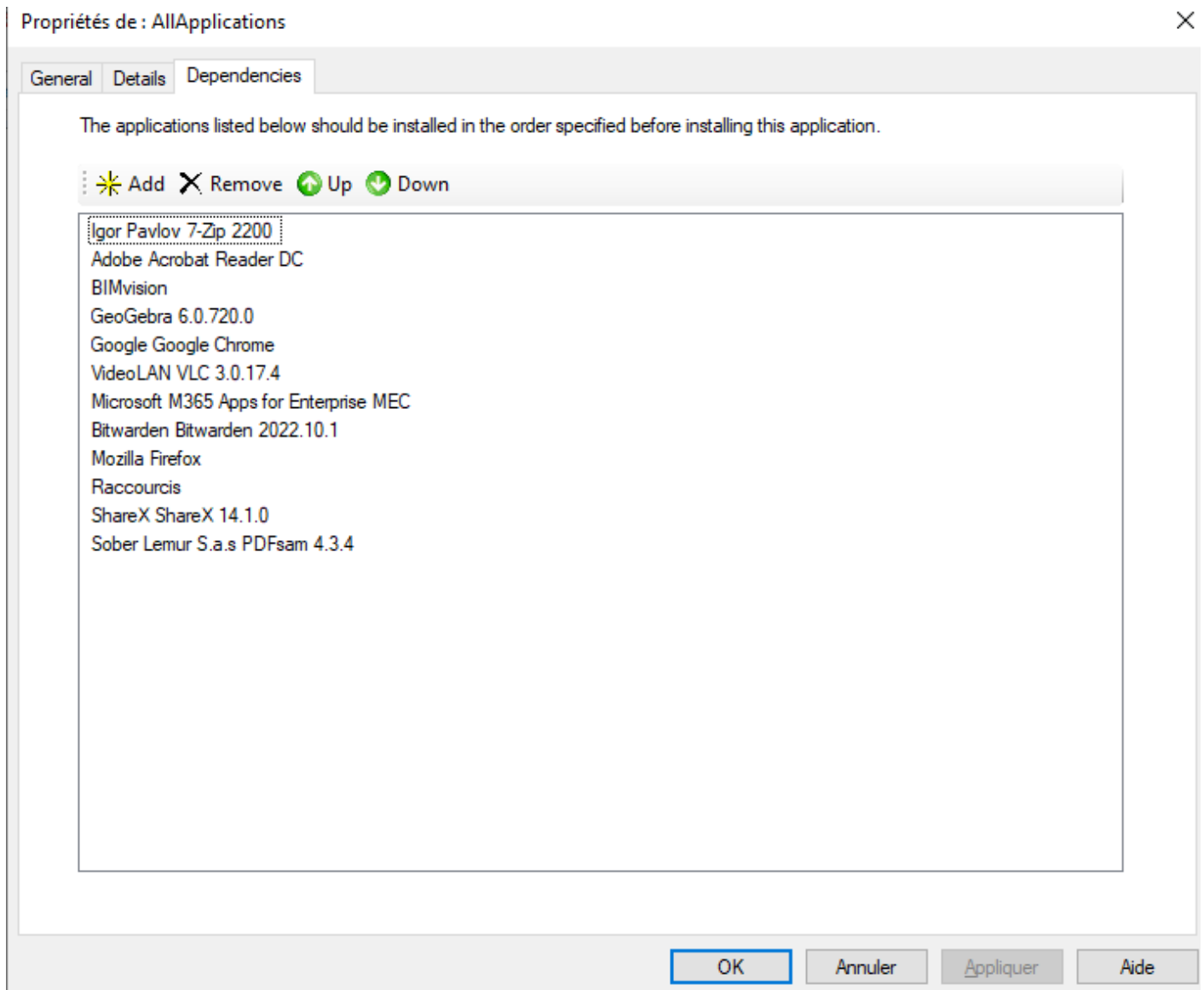
```
reg add HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\DriverSearching /v
SearchOrderConfig /t REG_DWORD /d 00000001 /f
reg delete HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate /f
```

Applications

Liste

	Name	ShortName	Version	Publisher
Deployment Workbench	Adobe Acrobat Reader DC	Acrobat Reader DC		Adobe
> Information Center	AllApplications	AllApplications		
▼ Deployment Shares	BIMvision	BIMvision		
▼ Windows10 (E:\DeploymentShare)	Bitwarden Bitwarden 2022.10.1	Bitwarden	2022.10.1	Bitwarden
▼ Applications	GeoGebra 6.0.720.0	GeoGebra	6.0.720.0	
> Operating Systems	Google Google Chrome	Google Chrome		Google
> Out-of-Box Drivers	Igor Pavlov 7-Zip 2200	7-Zip	2200	Igor Pavlov
> Packages	Microsoft M365 Apps for Enterprise MEC	M365 Apps for Enterprise MEC		Microsoft
> Task Sequences	Mozilla Firefox	Firefox	106.0.3	Mozilla
> Advanced Configuration	Raccourcis	Raccourcis		
> Monitoring	ShareX ShareX 14.1.0	ShareX	14.1.0	ShareX
	Sober Lemur S.a.s PDFsam 4.3.4	PDFsam	4.3.4	Sober Lemur
	VideoLAN VLC 3.0.17.4	VLC	3.0.17.4	VideoLAN

Bundle pour installer toutes les applications



Exemple de commande d'installation

MSI

```
msiexec /I \\ad.khroners.fr\SI$\GP0\Chrome\googlechromestandaloneenterprise64.msi /qn
```

General Details Dependencies

☐ Application bundle

There is no installation command associated with this application. Instead, only the dependencies of this application will be installed.

☒ Standard application

Quiet install command:

Working directory:

Uninstall registry key name:

☐ Reboot the computer after installing this application

☒ This can run on any platform.

☐ This can run only on the specified client platforms:

☐ All x86 NT

☐ All x86 Windows 7 Client

☐ All x86 Windows 8 Client

☐ All x86 Windows 8.1 Client

☐ All x86 Windows 10 Client

☐ All x64 Windows 7 Client

OK Annuler Appliquer Aide

Si le répertoire où est placé le setup est sur un partage DFS (ou simplement en dehors du DeploymentShare (à vérifier)), il faut qu'une des applications du bundle comprenne le partage dans le champ "Working Directory".

EXE

```
\\ad.khroners.fr\SI$\GPO\Bitwarden\Bitwarden-Installer-2022.10.1.exe /S /ALLUSERS
```

Revision #6

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