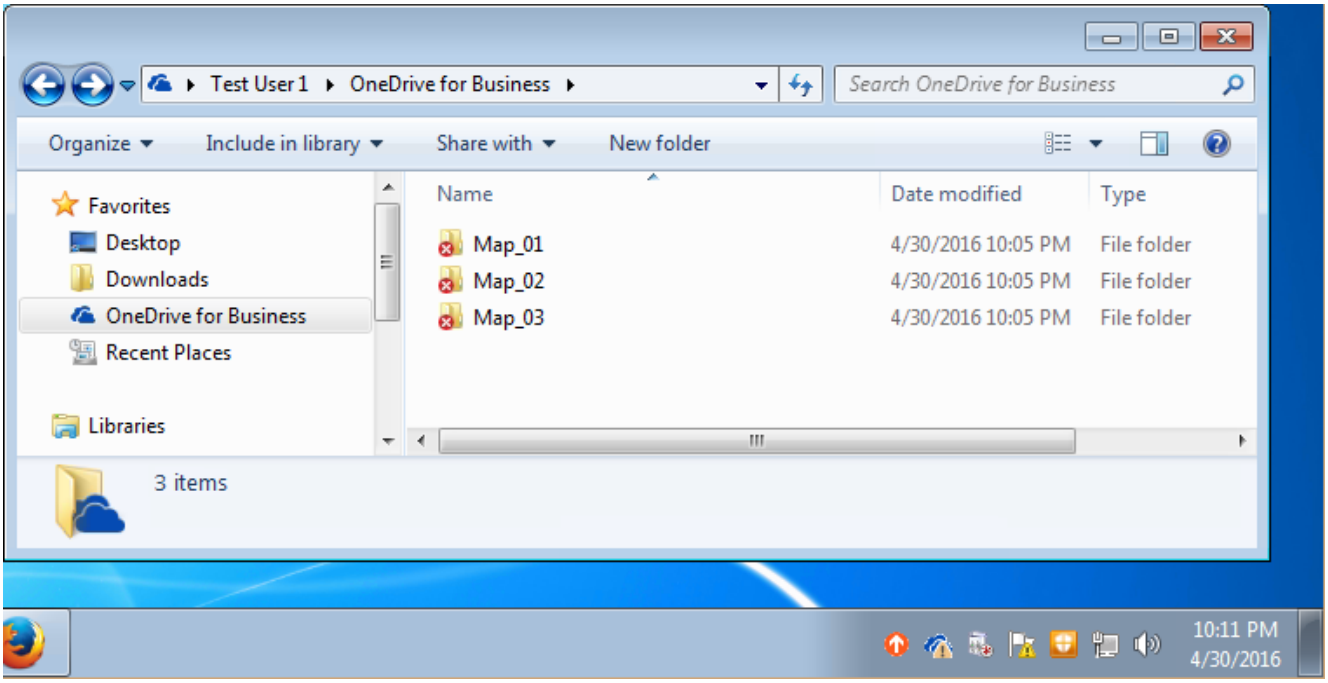
Installing OneDrive NextGen Synchronisation Client

The OneDrive for Business client can give some difficulties, like unable to synchronize:



Unable to sync files with OneDrive for Business.

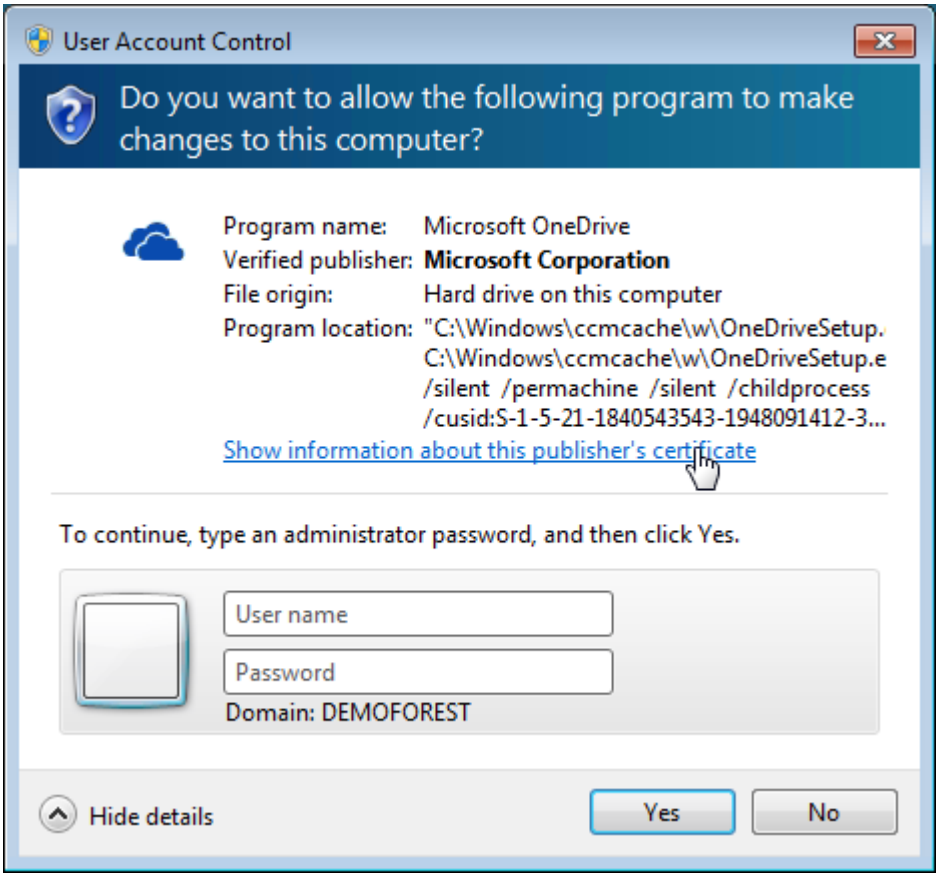
This can be solved by installing the new OneDrive Next Gen Sync Client. In this article I will describe how this application can be installed via SCCM 2012.

Please be informed that you still need the OneDrive for Business client to synchronize with Sharepoint lists.

Background information

The OneDrive NextGen Sync Client is installed the users' %LOCALAPPDATA% directory. As the application is installed the %LOCALAPPDATA% directory, you can assume that you can install the application with user rights in SCCM 2012. If you do so,

the installation will fail:



Failure as admin rights are needed to install.

As you can see, there are ‘hidden’ admin rights needed.

The solution

- Created a vscript that installs the application and sets a detection rule after a successful installation. The detection rule can be used in SCCM 2012 to detect a successful installation.

```
'
==========================================================
========================================
'  Installs  Microsoft  OneDriveNextGenSyncClient
17.3.6386.0412
' Created by Willem-Jan Vroom
```

```
' Version history:
'
' 0.0.1
'    Initial version
'
' 1.0.0
'    Final version
'
'
================================================================
=======================================

' ------------------------------------------------------------
----------------------------------------
' Declare the most variables.
' ------------------------------------------------------------
----------------------------------------

  Option Explicit

  Dim objShell                              : set objShell
= WScript.CreateObject("WScript.Shell")
   Dim objLogFileFSO                        : Set
objLogFileFSO                                 =
CreateObject("Scripting.FileSystemObject")
  Dim objFSO                                : Set objFSO
= CreateObject("Scripting.FileSystemObject")
   Dim objProcessEnv                        : Set
objProcessEnv                                 =
objShell.Environment("PROCESS")
   Dim objWMIService                        : Set
objWMIService                                 =
GetObject("winmgmts:\\.\root\cimv2")
   Dim fn_objWMIService                     : Set
fn_objWMIService                              =
GetObject("winmgmts:\\.\root\cimv2")
  Dim objReg                                : Set objReg
```

```
= GetObject("winmgmts:\\.\root\default:StdRegProv")
  Dim objLogFile
  Dim CurrentDir                          : CurrentDir
=                  Left(Wscript.ScriptFullname,
InstrRev(Wscript.ScriptFullname, "\"))
                                          CurrentDir
= Left(CurrentDir,len(CurrentDir)-1)
   Dim strcomputerName                              :
strcomputerName                                     =
objProcessEnv("COMPUTERNAME")
  Dim strLogLocation                     : strLogLocation
= "C:\WINDOWS\system32\Logfiles"
  Dim strOutputFile                       : strOutputFile
=  strLogLocation  &  "\"  &  strcomputerName  &
"_Installation_OneDriveSyncClient_"               &
Replace(FormatDateTime(Now(), 2),"/","-") & ".log"
   Dim strArchitecture                              :
strArchitecture                          = "x86"
  Dim strCurrentUser                     : strCurrentUser
= ""
   Dim strCurrentUserSID                            :
strCurrentUserSID                        = ""
  Dim strOS                                  : strOS
= ""
  Dim strCommand                          : strCommand
= ""
  Dim strLine                              : strLine
= ""
  Dim strQuery                            : strQuery
= ""
   Dim strCommonDesktop                             :
strCommonDesktop                         = ""
  Dim strArray                             : strArray
= ""
  Dim strProcess                          : strProcess
= ""
  Dim strLanguage                        : strLanguage
```

```
= ""
   Dim strInstallLanguage                    :
strInstallLanguage                  = ""
   Dim strDetectUserUILanguage               :
strDetectUserUILanguage             = ""
  Dim strValue                          : strValue
= ""
  Dim strKeyPath                        : strKeyPath
= ""
  Dim strValueName                      : strValueName
= ""
   Dim strCommonPrograms                     :
strCommonPrograms                   = ""
   Dim strFileToDelete                       :
strFileToDelete                     = ""
   dim strProgramFilesFolder                 :
strProgramFilesFolder                       =
objProcessEnv("ProgramFiles")
   Dim strDotNetInstallPath                  :
strDotNetInstallPath                = ""
  Dim strWindir                         : strWinDir
= objShell.ExpandEnvironmentStrings("%WinDir%")
  Dim dwValue                           : dwValue
= 0

   Dim arrFileNamesToKill                    :
arrFileNamesToKill                          =
Array("doesnotexist.exe")
  Dim objFileNameToKill

  Dim arrArguments
  Dim arrLanguage
  Dim strDNSDomain                      : strDNSDomain
= CreateObject("ADSystemInfo").DomainShortName
  Dim valCounter
  Dim valResult
  Dim valReturnCode
```

```
  Dim colProcess, objProcess
  Dim valOSBuildNumber
  Dim objSubfolder
  Dim colItems, objItem, Subfolder
  Dim colSoftware, objSoftware
  Dim arrValues, arrSubKeys

  Const ForWriting           = 2
  Const ForReading           = 1
  Const ForAppending         = 8
  Const OverWriteFiles       = True
  const HKEY_CURRENT_USER    = &H80000001
  const HKEY_LOCAL_MACHINE   = &H80000002
  Const HKEY_USERS           = &H80000003

  Const DEBUGMODE            = False

' ----------------------------------------------------
----------------------------------------
' Create the log location (if not exists)
' Open the logfile.
' ----------------------------------------------------
----------------------------------------

  CreateFolderStructure(strLogLocation)
  OpenLogFile()
  WriteToLog "- ACTION: script started."
  WriteToLog " "

' ----------------------------------------------------
----------------------------------------
' Detect the current OS.
' ----------------------------------------------------
----------------------------------------

   Set colItems = objWMIService.ExecQuery("Select
Caption,BuildNumber from Win32_OperatingSystem")
```

```
  For Each objItem in colItems
      strOS           = objItem.Caption
      valOSBuildNumber = objItem.BuildNumber
  next

' ------------------------------------------------------
----------------------------------------
' Find the currently logged on userid.
' And translate it to the users SID.
' ------------------------------------------------------
----------------------------------------

   Set colProcess = objWMIService.ExecQuery("Select *
from Win32_Process where Name = 'explorer.exe'")
  For Each objProcess in colProcess
                                valReturnCode     =
objProcess.GetOwner(strCurrentUser)
       if valReturnCode <> 0 Then strCurrentUser =
"Unable to find the username!"
  Next

   strCurrentUser = Ucase(strDNSDomain) & "\" &
strCurrentUser

  strCurrentUserSID = GetSIDFromUser(strCurrentUser)

' ------------------------------------------------------
----------------------------------------
' Detect the current processor architecture.
' ------------------------------------------------------
----------------------------------------

  if objFSO.FolderExists(strWindir & "\syswow64") Then
     strArchitecture = "x64"
                        strProgramFilesFolder    =
objProcessEnv("ProgramFiles(x86)")
  end if
```

```
' ------------------------------------------------------
----------------------------------------
' Detect the current User Interface MUI.
' ------------------------------------------------------
----------------------------------------

  strDetectUserUILanguage = DetectUserUILanguage

   WriteToLog("########## Details regarding operating
system and logged on user     ##########")
  WriteToLog("Found Operating System:       " & strOS)
   WriteToLog("Found architecture:              " &
strArchitecture)
  WriteToLog("Logged on userid:                " &
strCurrentUser)
  WriteToLog("Logged on user SID:              " &
strCurrentUserSID)
  WriteToLog("Language:                        " &
strDetectUserUILanguage)
  WriteToLog("########## End details regarding operating
system and logged on user ##########")
  WriteToLog(" ")
         WriteToLog("##########    Installation
##########")

   ' ------------------------------------------------
----------------------------------------
   ' Close applications that might screw up the
installation.
   ' ------------------------------------------------
----------------------------------------

  For Each objFileNameToKill in arrFileNamesToKill
    fnKillProcess(objFileNameToKill)
  Next

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

```
-----------------------------------------
' Sets SEE_MASK_NOZONECHECKS to 1.
' That will avoid a screen that asks for permission to
run an application from
' a share or mapped drive.
' ------------------------------------------------------
-----------------------------------------

  objProcessEnv("SEE_MASK_NOZONECHECKS") = 1

' ------------------------------------------------------
-----------------------------------------
' Uninstall other Samsung Kies installations.
' if the command line option '/uninstall' is given, then
only a uninstall and quit.
' ------------------------------------------------------
-----------------------------------------

  if wscript.arguments.count > 0 Then
      if lcase(wscript.arguments(0)) = "/uninstall" or
lcase(wscript.arguments(0)) = "/remove" then
          WriteToLog("The command line option '" &
wscript.arguments(0) & "' was found, so only a silent
uninstall will be performed.")
        RemoveOneDriveSyncClient()
            WriteToLog("########## End Uninstall
##########")
        WriteToLog(" ")
        CloseLogFile()
        wscript.quit
     end if
  end if

' ------------------------------------------------------
-----------------------------------------
' Start the base installation
' ------------------------------------------------------
```

```
----------------------------------------

     strCommand = chr(34) & CurrentDir &
"\OneDriveSetup.exe" & chr(34)
  strCommand = strCommand & " /silent"
  WriteToLog ("Running command: " & strCommand)
  valResult = objShell.Run (strCommand,6,True)
  WriteToLog("Result: " & valResult)
  if valResult = 0 Then
     GenereteSCCM2012DetectionRule
  end if
     WriteToLog("##########  End Installation
##########")
  WriteToLog(" ")
  CloseLogFile()
  wscript.quit valReturnCode

Sub OpenLogFile()

' ------------------------------------------------
----------------------------------------
' Subroutine: OpenLogFile()
' The name of the logfile is mentinoed in the variabele
strOutputFile.
' ------------------------------------------------
----------------------------------------

  If objLogFileFSO.FileExists(strOutputFile) Then
                          Set     objLogFile     =
objLogFileFSO.OpenTextFile(strOutputFile, ForAppending)
        Else
                          Set     objLogFile     =
objLogFileFSO.CreateTextFile(strOutputFile)
  End If

End Sub
```

```
Sub CloseLogFile()

' ------------------------------------------------------
----------------------------------------
' Subroutine: CloseLogFile()
' Close the log file.
' ------------------------------------------------------
----------------------------------------

  WriteToLog "- ACTION: script ended."
  objLogFile.Close
  Set objLogfileFSO = Nothing

End Sub

Function WriteToLog(sLogMessage)

' ------------------------------------------------------
----------------------------------------
' Function: WriteToLog(sLogMessage)
' Writes an entry 'sLogMessage' in the logfile.
' ------------------------------------------------------
----------------------------------------

   if instr(sLogMessage, "- ACTION: ") = 0 then
sLogMessage = "             " & sLogMessage
   objLogFile.WriteLine("Time: " & now & "   " &
sLogMessage)

End Function

Function GetSIDFromUser(UserName)

' ------------------------------------------------------
----------------------------------------
' Function: GetSIDFromUser(UserName)
' Gets the SID from the give username.
```

```
' We use the registry to avoid an empty result if run
under the SYSTEM account.
' ------------------------------------------------------
----------------------------------------

  Dim DomainName, Result, WMIUser

  If InStr(UserName, "\") > 0 Then
    DomainName = Mid(UserName, 1, InStr(UserName, "\") -
1)
    UserName = Mid(UserName, InStr(UserName, "\") + 1)
  Else
                                  DomainName        =
CreateObject("WScript.Network").UserDomain
  End If

  On Error Resume Next
                     Set          WMIUser          =
GetObject("winmgmts:{impersonationlevel=impersonate}!" _
      & "/root/cimv2:Win32_UserAccount.Domain='" &
DomainName & "'" _
    & ",Name='" & UserName & "'")
  If Err.Number = 0 Then
    Result = WMIUser.SID
  Else
    Result = ""
  End If
  On Error GoTo 0

  GetSIDFromUser = Result

End Function

Sub CreateFolderStructure(strFolderNameToBeCreated)

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

```
'                                        Subroutine:
CreateFolderStructure(strFolderNameToBeCreated)
'    Creates    the    map    as    mentioned    in
strFolderNameToBeCreated.
' ------------------------------------------------
----------------------------------------

   Dim  arrFoldersTMP  :  arrFoldersTMP  =  split
(strFolderNameToBeCreated,"\")
  Dim strFolder  : strFolder  = ""
  Dim objFolderTMP

  For Each objFolderTMP in arrFoldersTMP
      strFolder = strFolder & objFolderTMP
      If NOT objFSO.FolderExists(strFolder) Then
             objFSO.CreateFolder(strFolder)
      end If
      strFolder = strFolder & "\"
  Next

End Sub

Function DetectUserUILanguage

' ------------------------------------------------
----------------------------------------
' Function: DetectUserUILanguage
' Detects the User Interface Language
' Modified by Willem-Jan Vroom d.d 12 Feb 14: also
detects Czech, Finnish, Hungarian, Polish,
' Russian, Slovak, Slovian and Turkish languages on
Windows 7.
' ------------------------------------------------
----------------------------------------
  if instr(lcase(strOS),"windows xp") > 0 then
     strKeyPath               = strCurrentUserSID &
"\Control Panel\Desktop"
```

```
     strValueName             = "MultiUILanguageId"
     strLanguage              = "eng"
                               objReg.GetStringvalue
HKEY_USERS,strKeyPath,strValueName,strValue
     if NOT IsEmpty(strValue) Then
        strValue = UCase(right(strValue,4))
        if strValue = "040C" then strLanguage = "fra"
        if strValue = "0410" then strLanguage = "ita"
        if strValue = "0407" then strLanguage = "ger"
        if strValue = "040A" then strLanguage = "spa"
        if strValue = "0C0A" then strLanguage = "spa"
     end if
      else
     strKeyPath                 = strCurrentUserSID &
"\Control Panel\Desktop"
     strValueName             = "PreferredUILanguages"
     strLanguage              = "eng"
                          objReg.GetMultiStringValue
HKEY_USERS,strKeyPath,strValueName,arrValues
     if not IsNull(arrValues) Then
        strValue=arrValues(0)
        if NOT IsEmpty(strValue) then
           strValue = lcase(left(strValue,2))
           if strValue = "fr" then strLanguage = "fra"
           if strValue = "it" then strLanguage = "ita"
           if strValue = "de" then strLanguage = "ger"
           if strValue = "es" then strLanguage = "spa"
           if strValue = "cs" then strLanguage = "cze"
           if strValue = "fi" then strLanguage = "fin"
           if strValue = "hu" then strLanguage = "hun"
           if strValue = "pl" then strLanguage = "pol"
           if strValue = "ru" then strLanguage = "rus"
           if strValue = "sk" then strLanguage = "sky"
           if strValue = "sl" then strLanguage = "slv"
           if strValue = "sv" then strLanguage = "swe"
           if strValue = "tr" then strLanguage = "tur"
           if strValue = "nb" then strLanguage = "nor"
```

```
        end if
     end if
     if strLanguage = "eng" then
         strKeyPath               = ".DEFAULT\Control
Panel\Desktop\MuiCached"
               strValueName                        =
"MachinePreferredUILanguages"
                     objReg.GetMultiStringValue
HKEY_USERS,strKeyPath,strValueName,arrValues
        if not IsNull(arrValues) Then
           strValue=arrValues(0)
           if NOT IsEmpty(strValue) then
              strValue = lcase(left(strValue,2))
               if strValue = "fr" then strLanguage =
"fra"
               if strValue = "it" then strLanguage =
"ita"
               if strValue = "de" then strLanguage =
"ger"
               if strValue = "es" then strLanguage =
"spa"
               if strValue = "cs" then strLanguage =
"cze"
               if strValue = "fi" then strLanguage =
"fin"
               if strValue = "hu" then strLanguage =
"hun"
               if strValue = "pl" then strLanguage =
"pol"
               if strValue = "ru" then strLanguage =
"rus"
               if strValue = "sk" then strLanguage =
"sky"
               if strValue = "sl" then strLanguage =
"slv"
               if strValue = "sv" then strLanguage =
"swe"
```

```
              if strValue = "tr" then strLanguage =
"tur"
              if strValue = "nb" then strLanguage =
"nor"
           end if
        end if
     end if
  end if

  DetectUserUILanguage = strLanguage
End Function

Function fnKillProcess(strProcessName)

' ------------------------------------------------
----------------------------------------
' Function: fnKillProcess(strProcessName)
' Terminates the given processname.
' ------------------------------------------------
----------------------------------------

  Set colProcess = fn_objWMIService.ExecQuery ("Select *
From Win32_Process")
  For Each objProcess In colProcess
                                                  If
Instr(LCase(objProcess.Name),LCase(strProcessName)) > 0
Then
          objShell.Run "TASKKILL /F /T /IM " &
objProcess.Name, 0, False
       objProcess.Terminate()
         WriteToLog("Terminating application: " &
objProcess.Name)
    End If
  Next

End Function
```

```
Function GenereteSCCM2012DetectionRule

' ---------------------------------------------------
-----------------------------------------
' Function: GenereteSCCM2012DetectionRule
' Creates the SCCM 2012 Detection Rule to detect a
successfull installation.
' ---------------------------------------------------
-----------------------------------------

  WriteToLog ("Creates the SCCM 2012 Detection Rule.")
                strKeyPath                          =
"SOFTWARE\VroomSoft\SCCM2012DetectionRules"
                          strValueName              =
"Install_OneDriveSyncClient_17.3.6386.0412"
  strValue     = "true"
  objReg.CreateKey      HKEY_LOCAL_MACHINE, strKeyPath
   objReg.SetStringValue HKEY_LOCAL_MACHINE, strKeyPath,
strValueName, strValue
End Function

Function RemoveOneDriveSyncClient()

' ---------------------------------------------------
-----------------------------------------
' Function: RemoveOneDriveSyncClient()
' Removes OneDrive Next Gen Sync Client.
' ---------------------------------------------------
-----------------------------------------

     strCommand   =   chr(34)   &   CurrentDir   &
"\OneDriveSetup.exe" & chr(34)
  strCommand = strCommand & " /uninstall"
  WriteToLog ("Running command: " & strCommand)
  valResult = objShell.Run (strCommand,6,True)
  WriteToLog("Result: " & valResult)
  if valResult = 0 Then
```

```
                    strKeyPath                  =
"SOFTWARE\VroomSoft\SCCM2012DetectionRules"
                                strValueName       =
"Install_OneDriveSyncClient_17.3.6386.0412"
     objReg.DeleteValue HKEY_LOCAL_MACHINE, strKeyPath,
strValueName
  end if
End Function
```

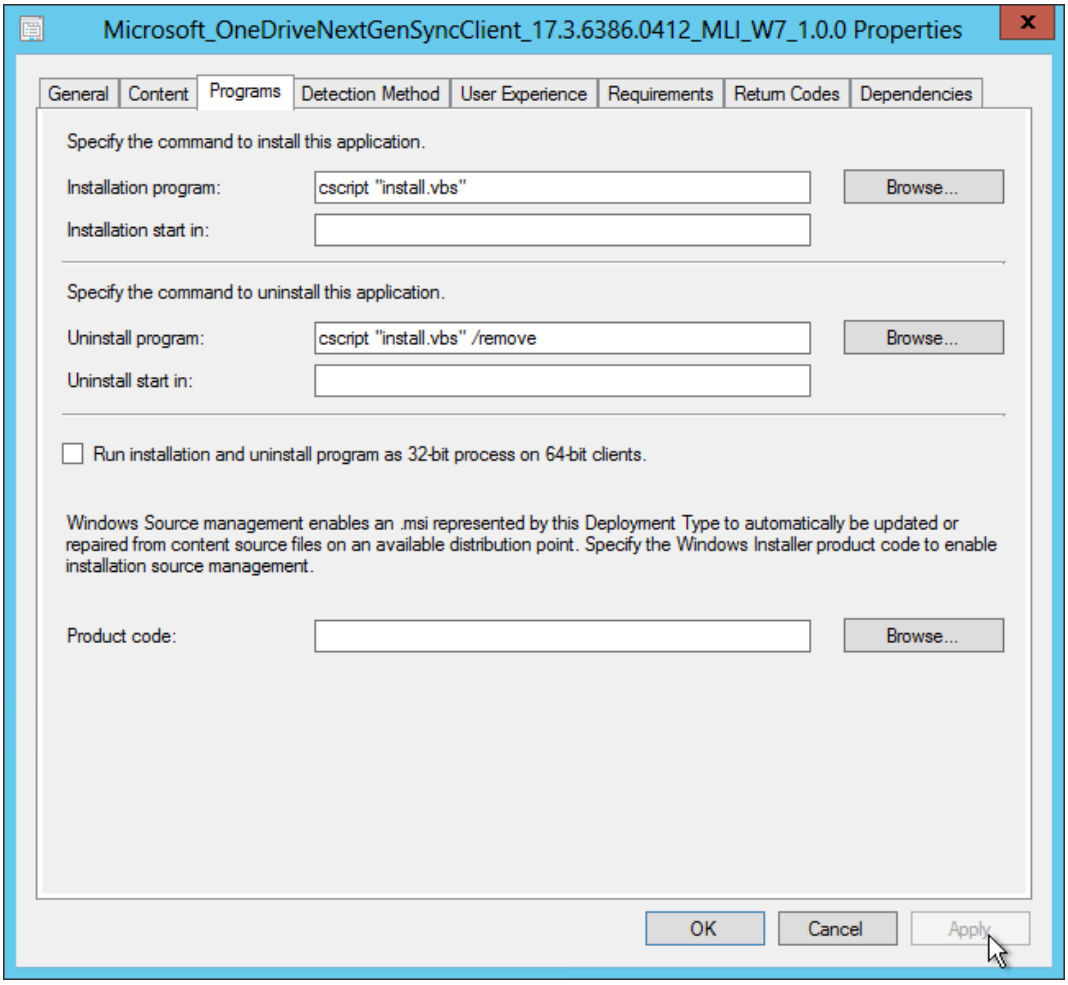
- This is the detection rule that will be used in SCCM 2012:

```
Function GenereteSCCM2012DetectionRule

' ----------------------------------------------------------------------------------------------------
' Function: GenereteSCCM2012DetectionRule
' Creates the SCCM 2012 Detection Rule to detect a successfull installation.
' ----------------------------------------------------------------------------------------------------

  WriteToLog ("Creates the SCCM 2012 Detection Rule.")
  strKeyPath    = "SOFTWARE\VroomSoft\SCCM2012DetectionRules"
  strValueName = "Install_OneDriveSyncClient_17.3.6386.0412"
  strValue      = "true"
  objReg.CreateKey      HKEY_LOCAL_MACHINE, strKeyPath
  objReg.SetStringValue HKEY_LOCAL_MACHINE, strKeyPath, strValueName, strValue

End Function
```

Detection rule set in the vbscript.

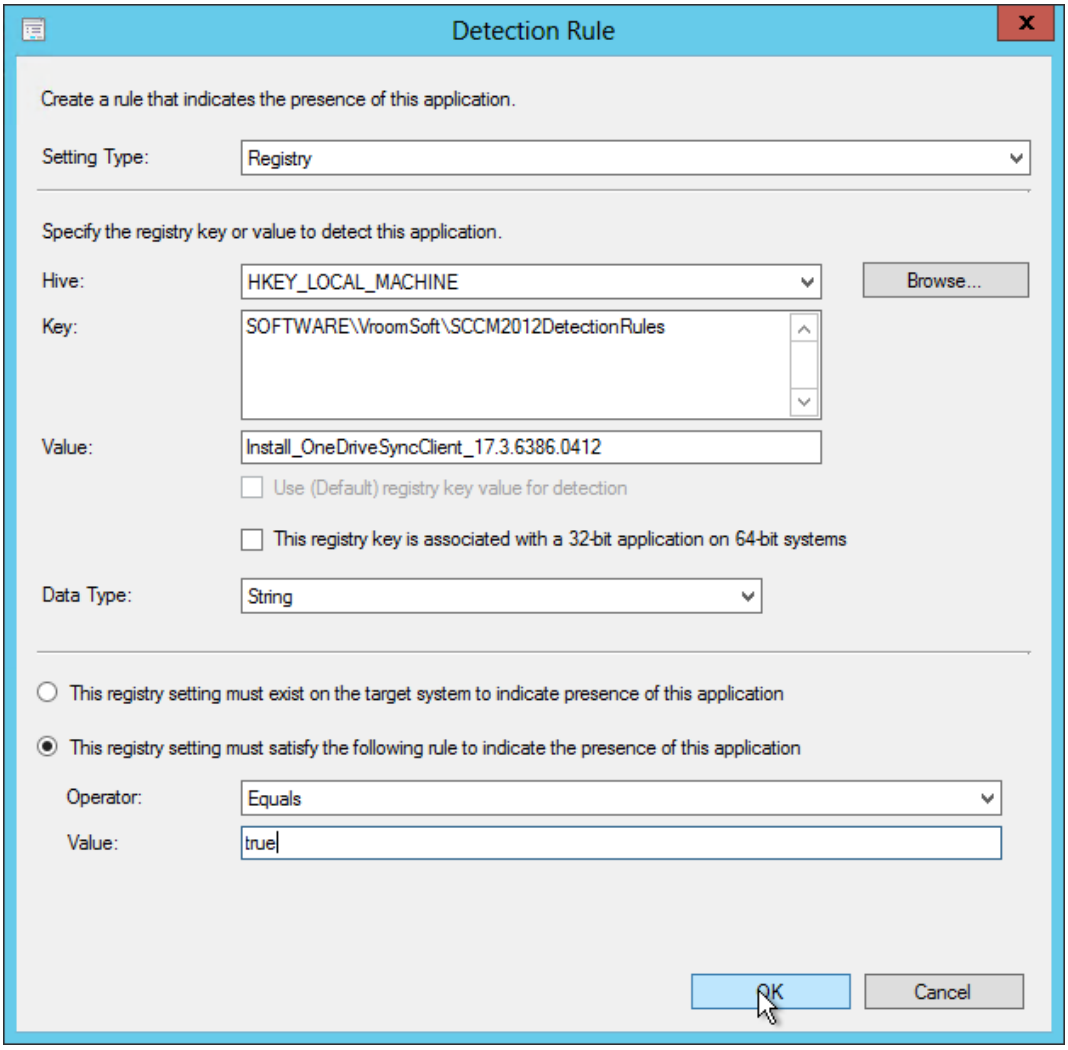
Implementation in SCCM 2012

1. Create a ‘installation program’ and ‘uninstall program’:



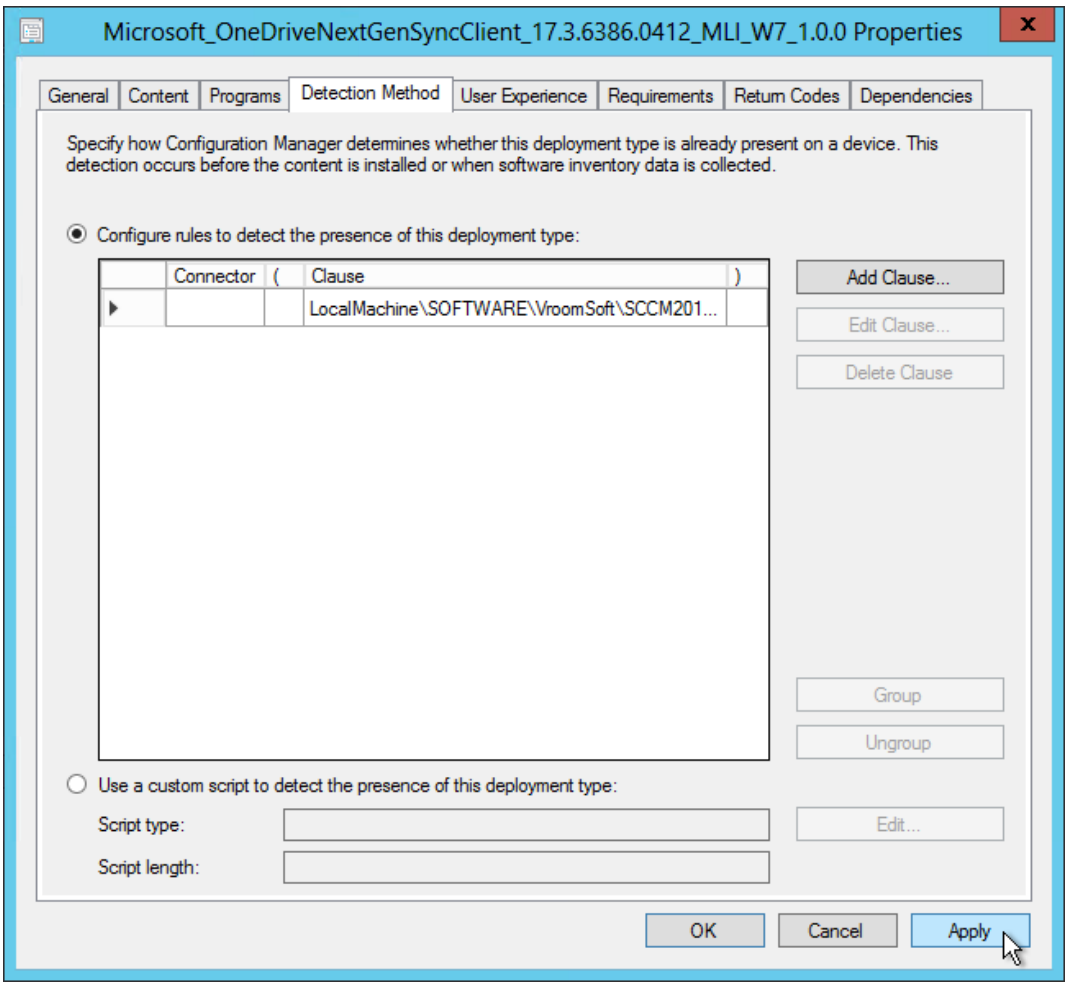
New application.

2. The detection rule:



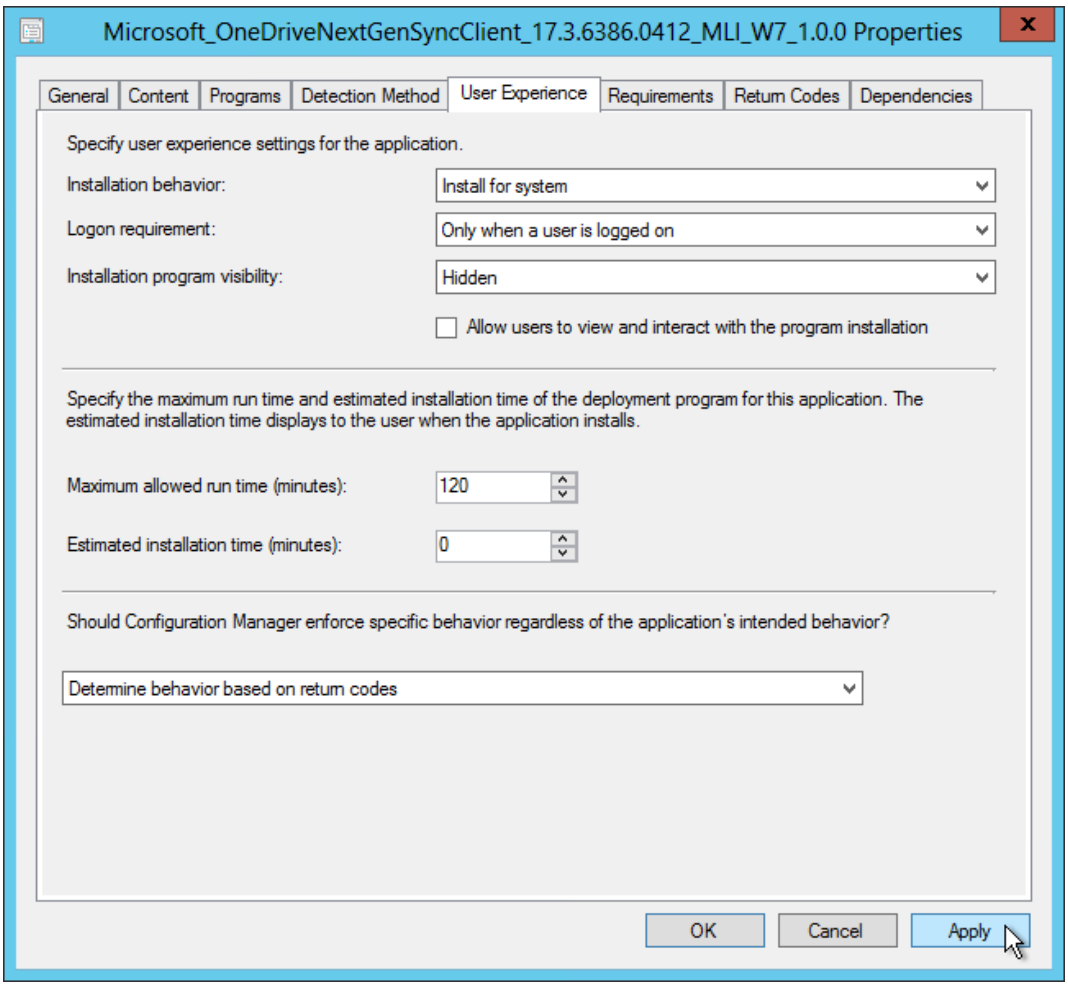
Detection rule.

3. The detection method:



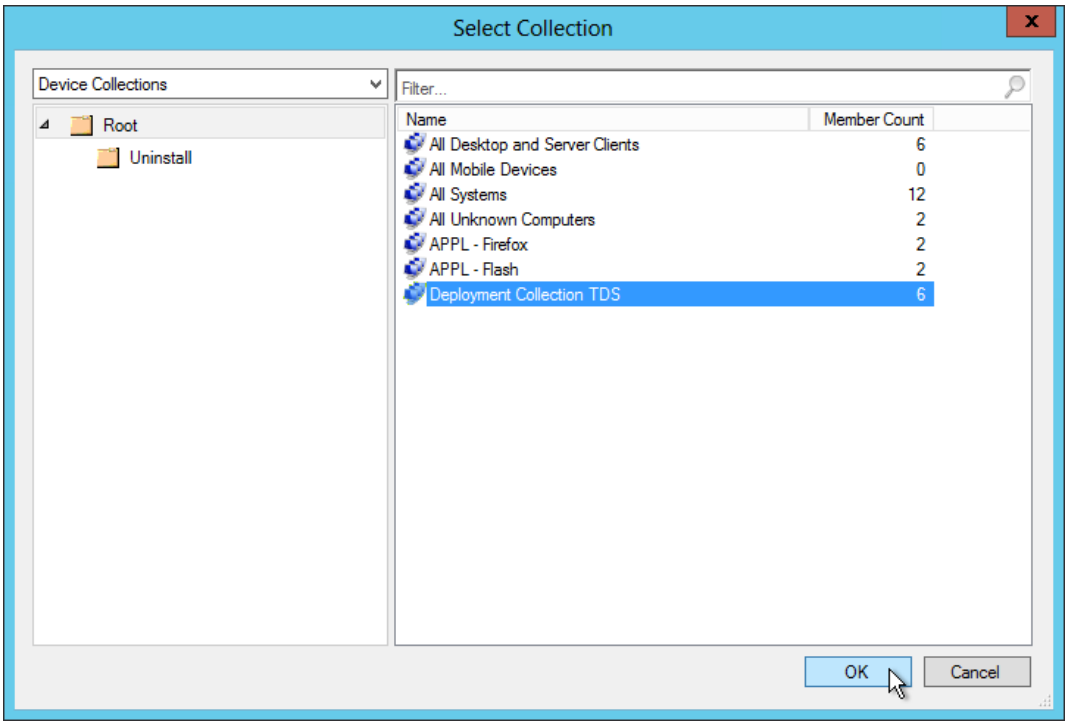
Detection method.

4. The application is installed with admin rights:

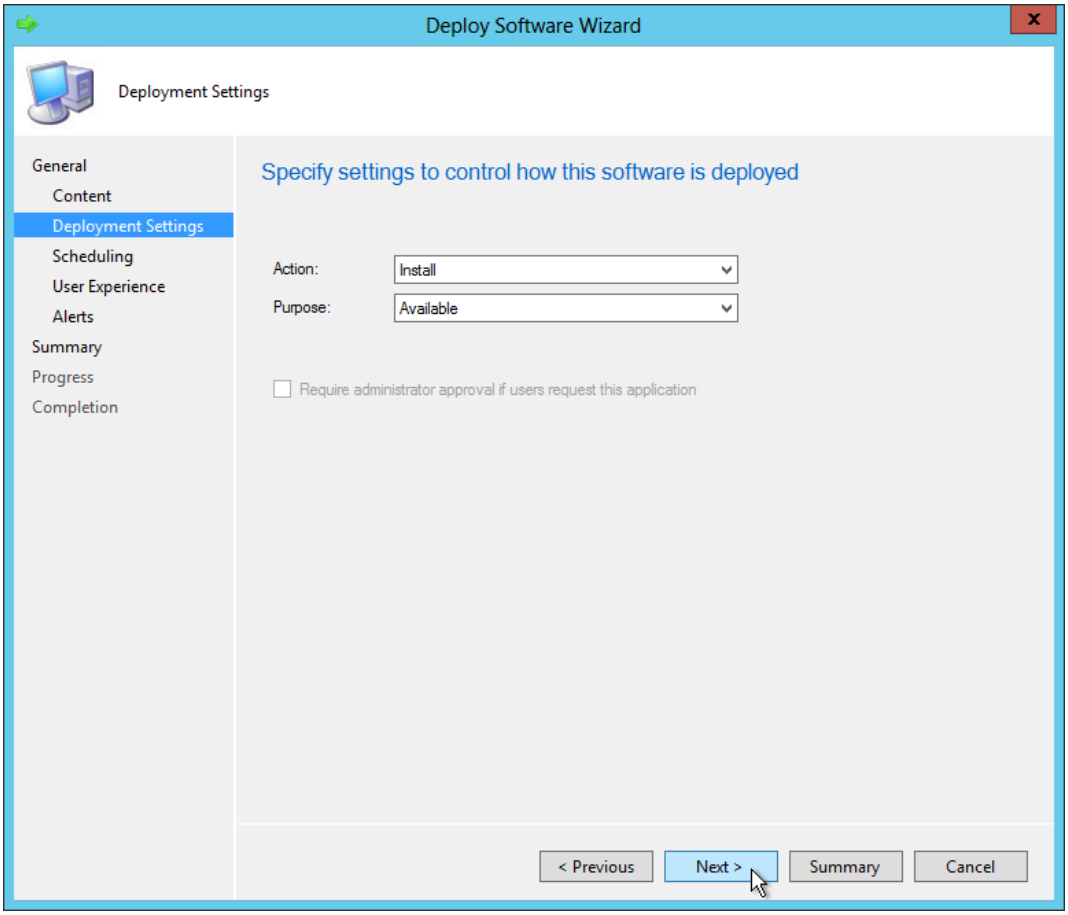


Installation with admin rights.

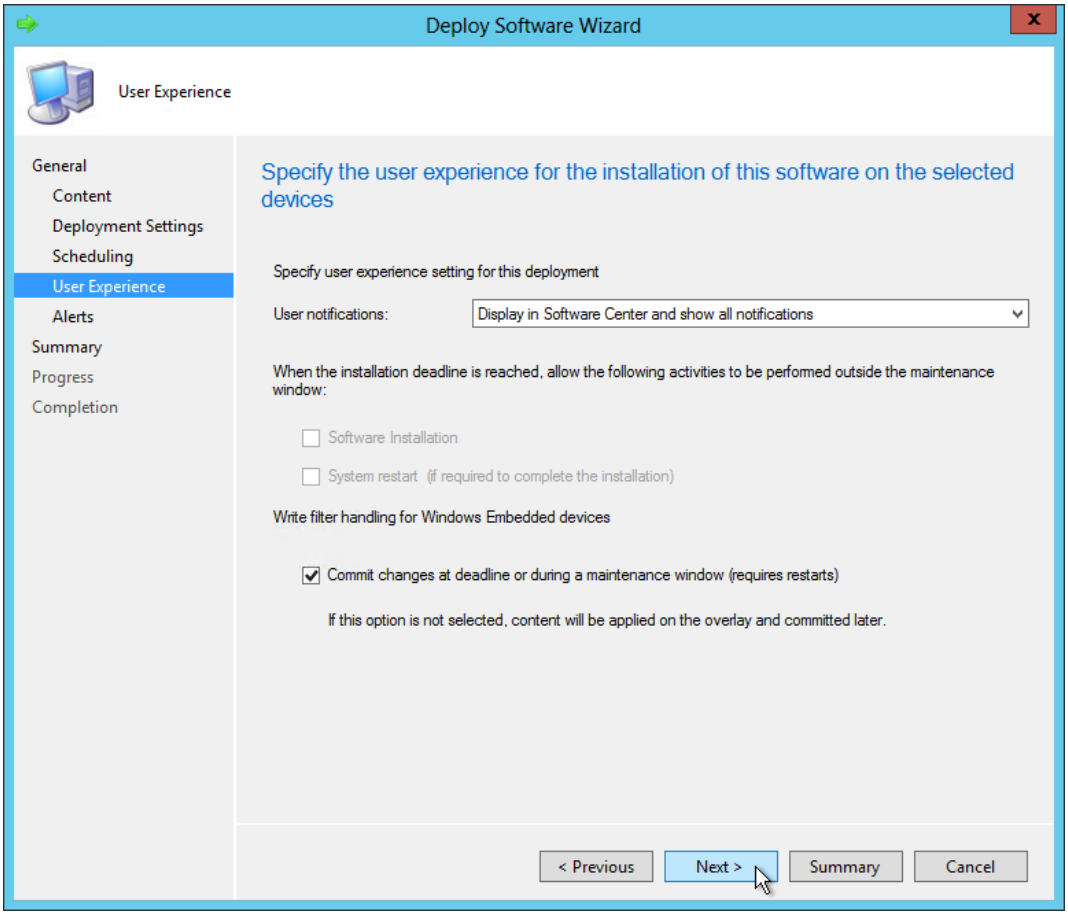
5. And deploy the application to a deviced based collection:



Deployment to a device based collection.



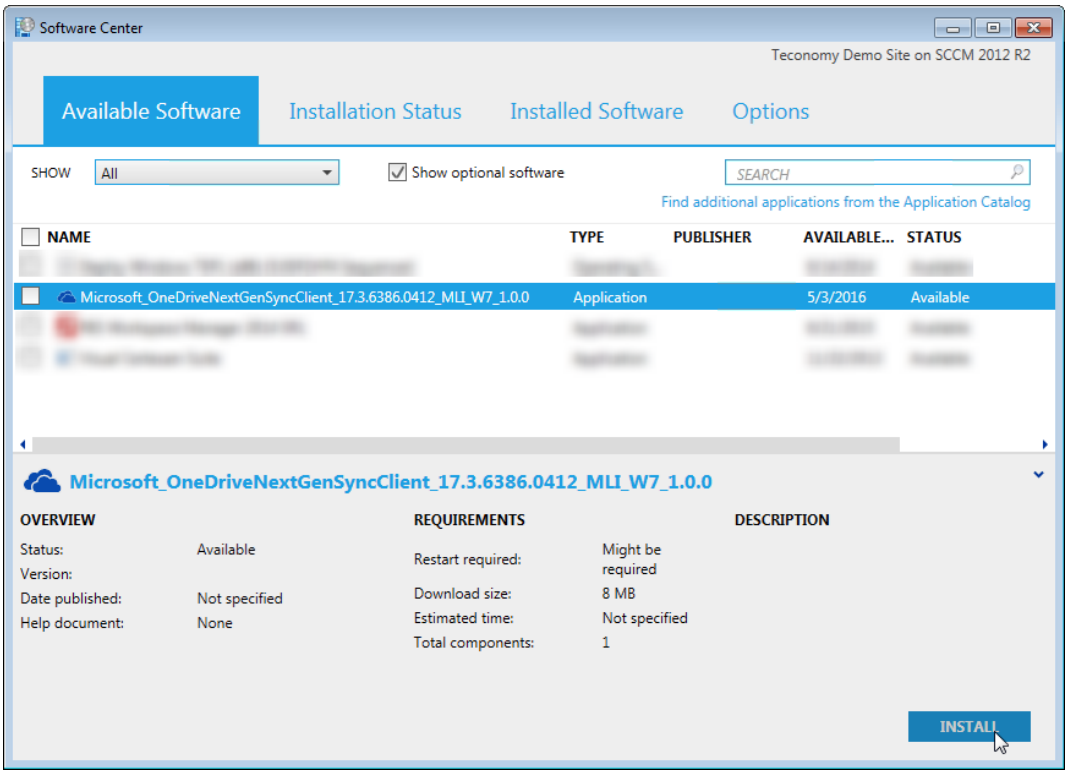
Deploy as available.



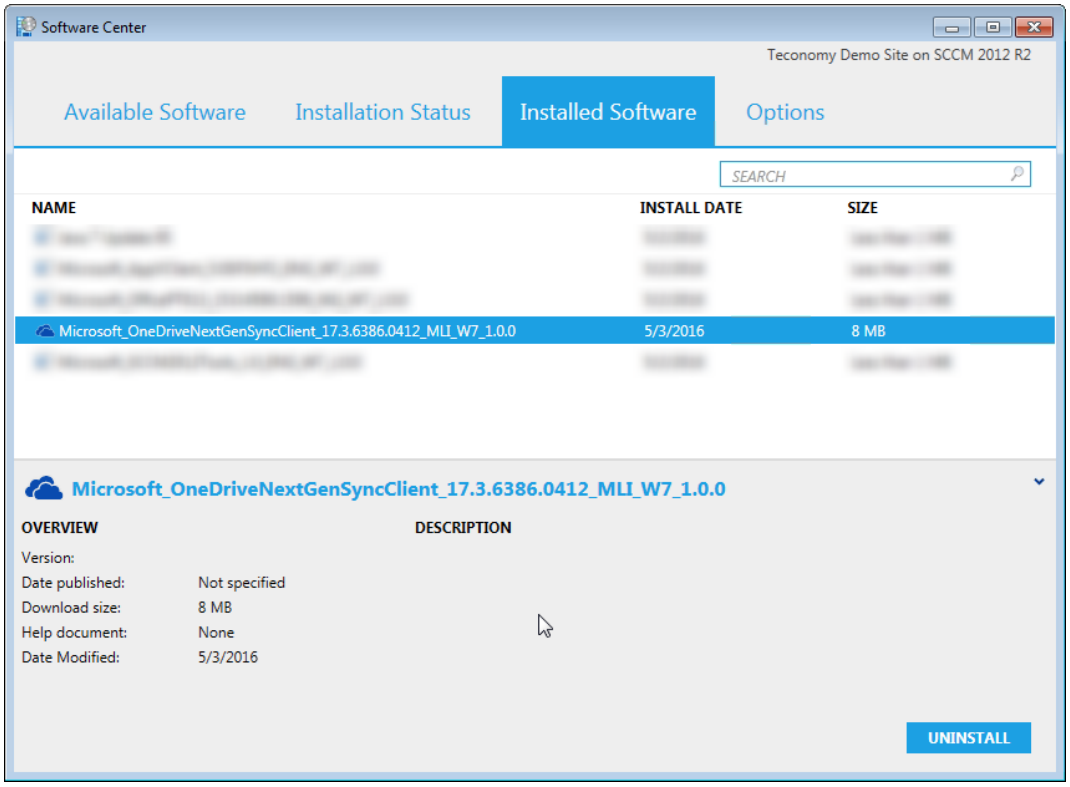
Show all notifications.

Check on a client

1. Log on to a client and go to the Software Catalog:

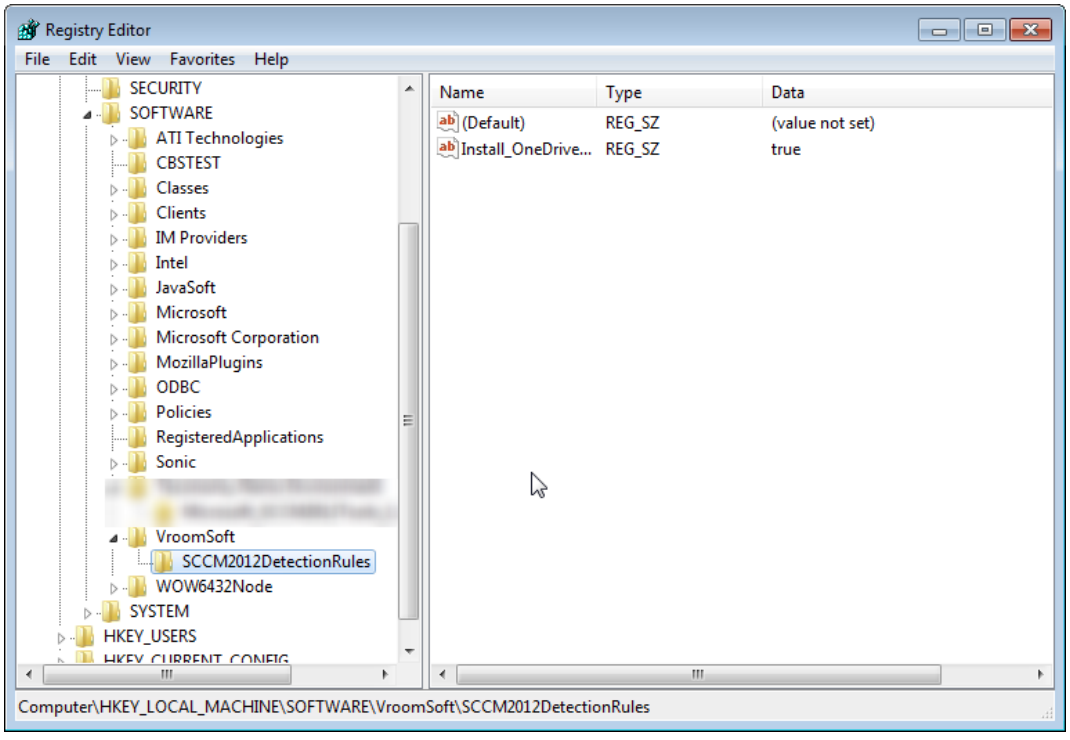


The application is visible in the software center



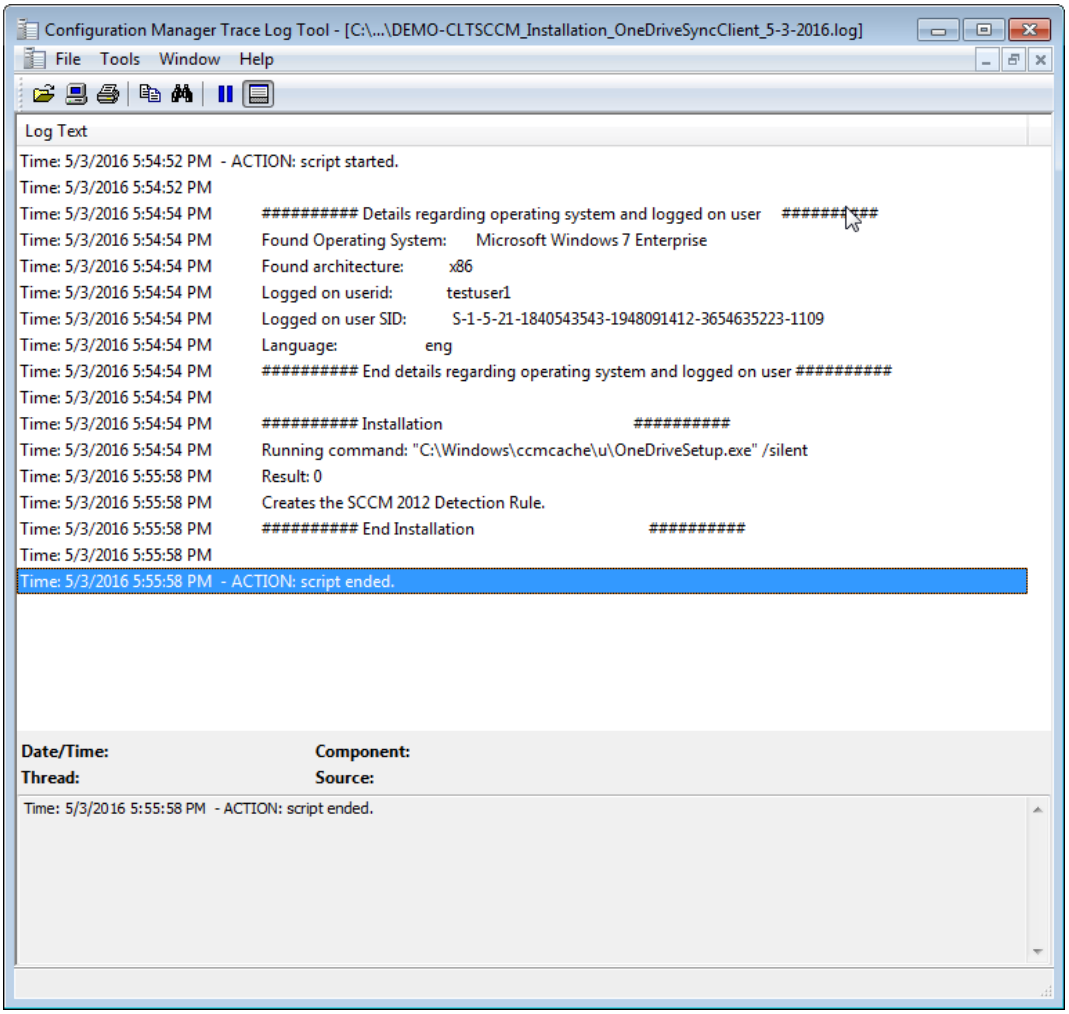
You can find the new application under installed applications.

2. You can use regedit to find the detection rule which is set via vbscript:



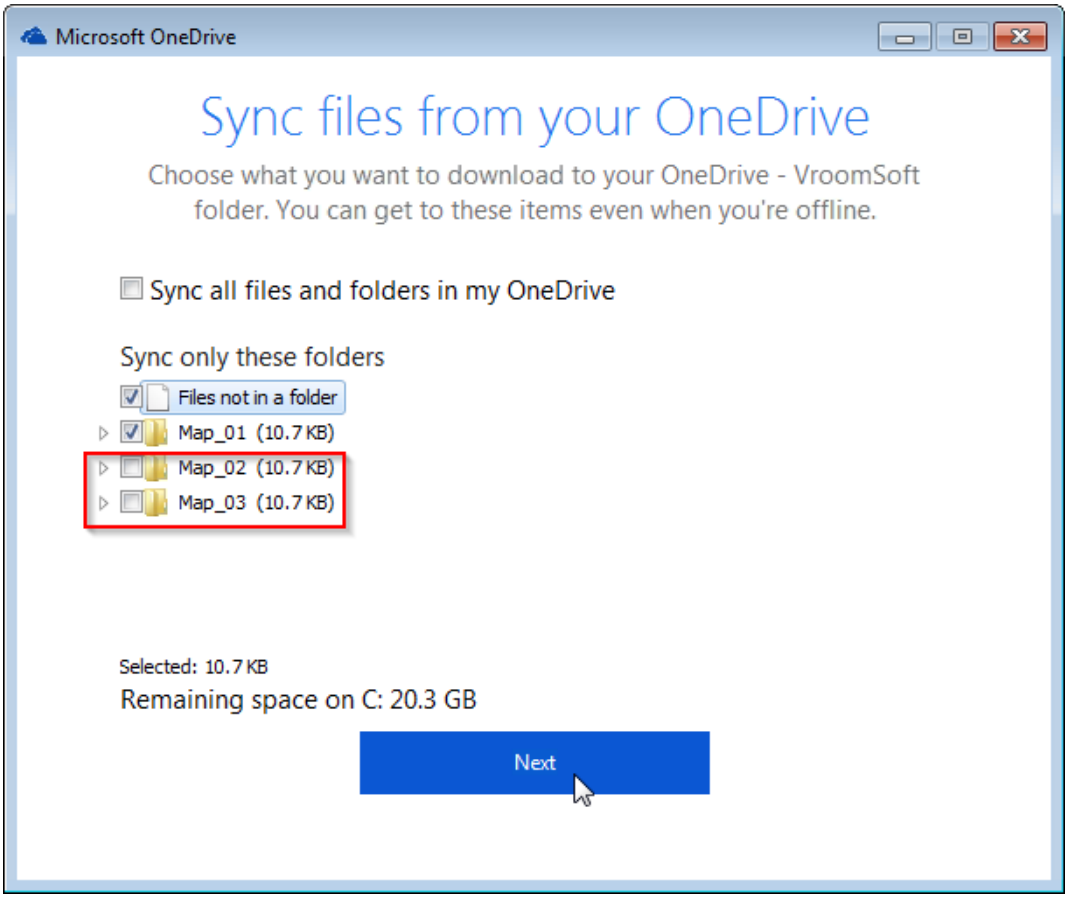
The detection rule is found in the registry

3. The installation log file (found in c:\windows\system32\logfiles):

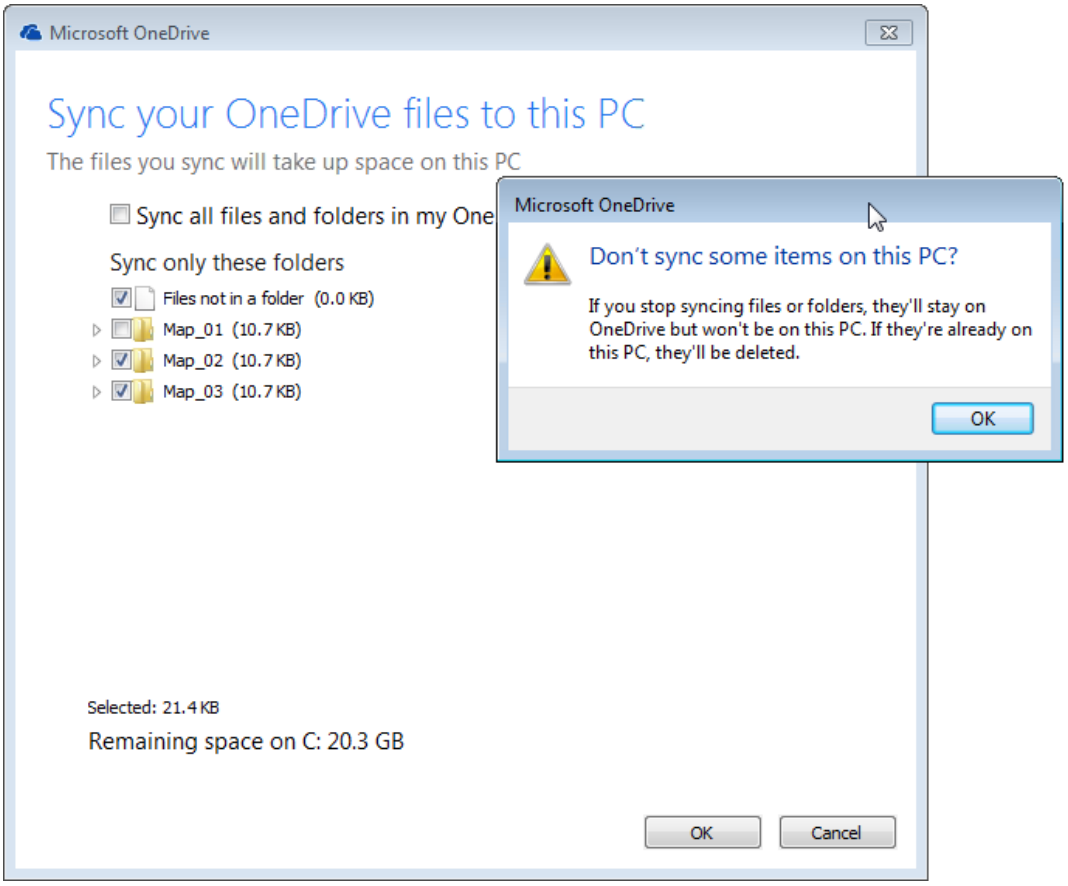


Installation log file

4. Now you can select the folders you want to synchronize or want to exclude from synchronization:



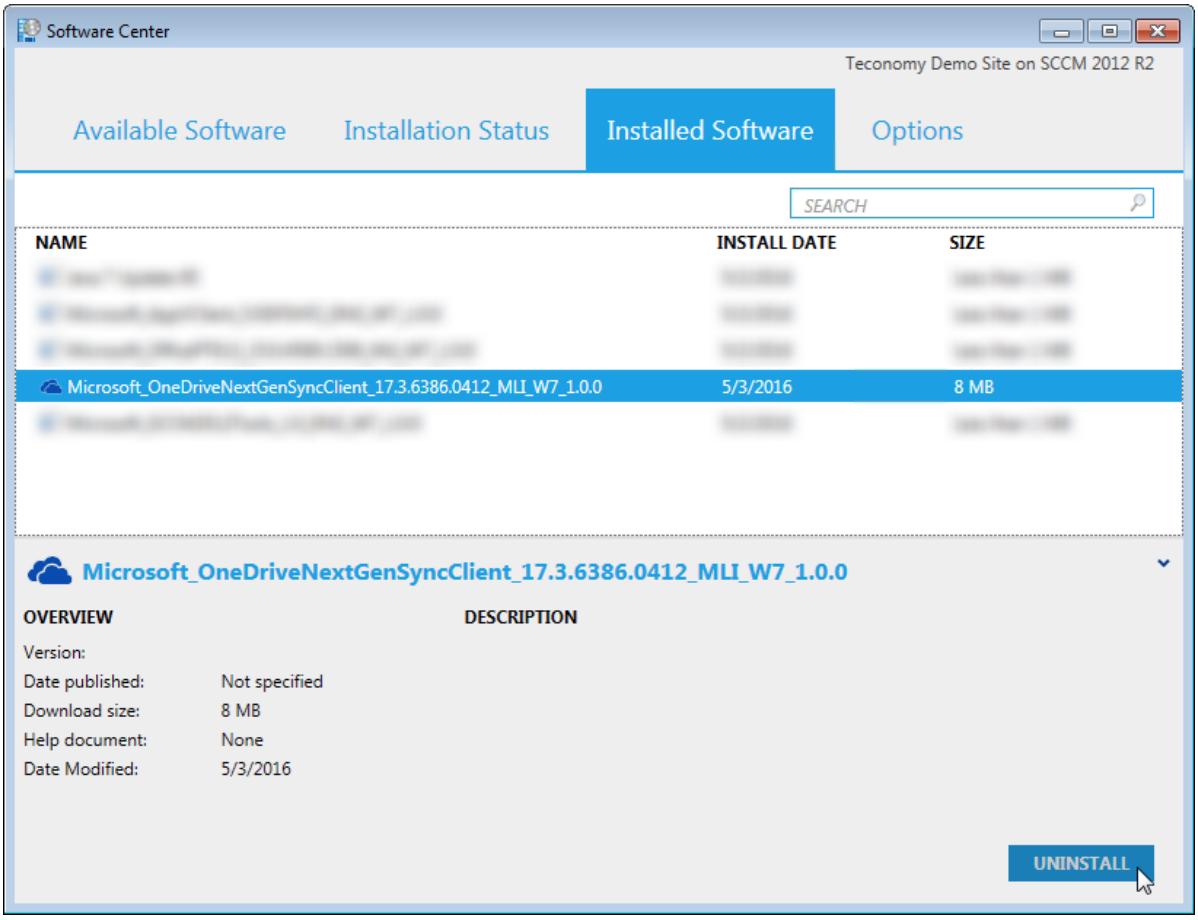
You can select the folders you want so synchronize.



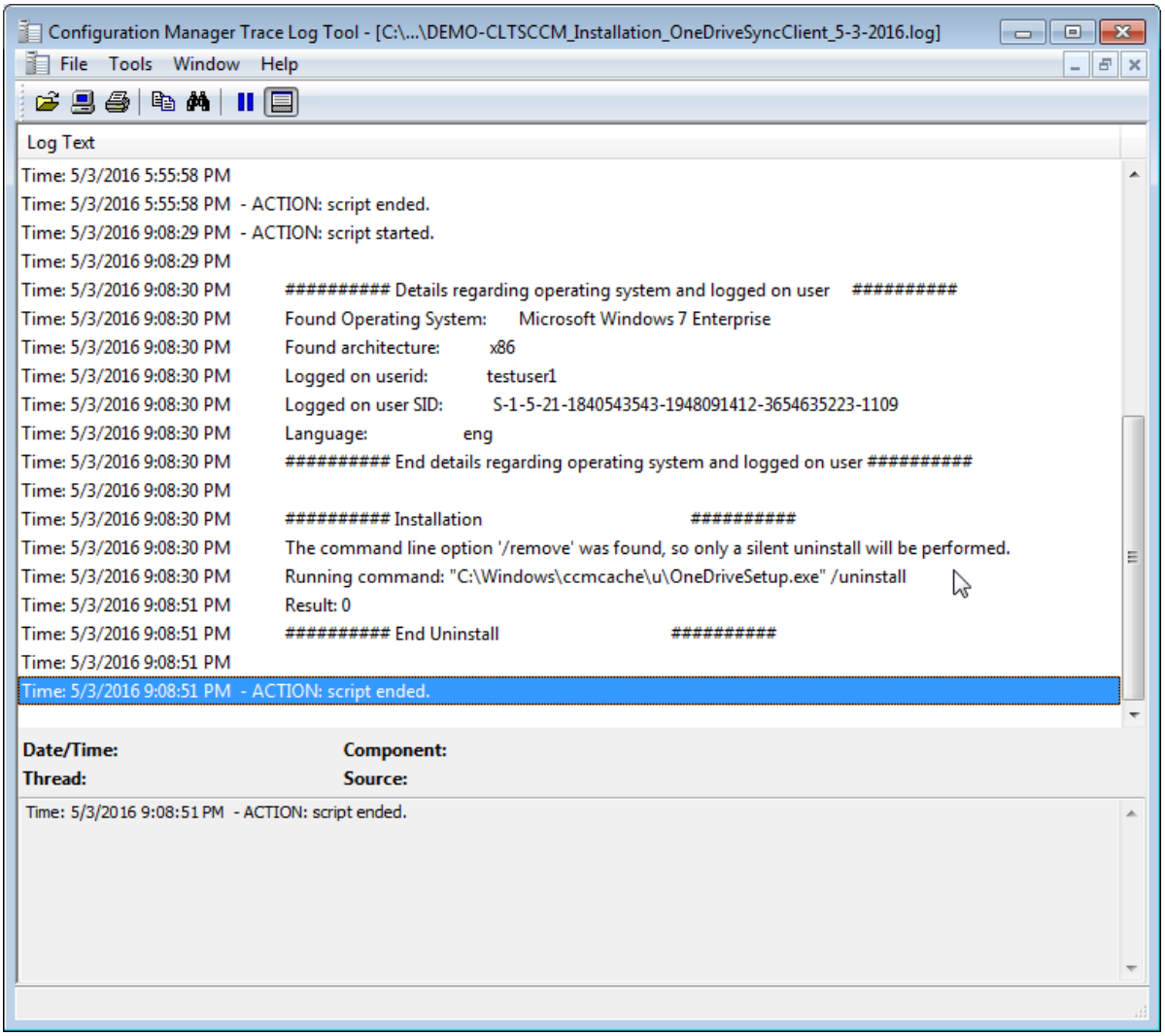
Unselect the folders you do not want to synchronize.

Uninstall the application

You can uninstall the OneDrive NextGen Sync Client if you do not want to use it anymore. All the data will remain on the computer:



You can uninstall the client.



The uninstall in the log file.