DEPLOY DELL CLIENT TOOLS WITH MICROSOFT INTUNE

Step by Step installing Dell Client Management Tools

Summary

This document is for informational purposes only and may contain typographical errors and technical inaccuracies. The content is provided as is, without express or implied warranties of any kind

Dell Technologies – CSG Service Product Group

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Release notes

Version	Changes
1.0.0	Initial document
1.0.1	Change process of MSI extract of Dell Command Update and Dell Power Manager
1.1.0	- Change from MSI to DUP (Dell Update Package) if possible. - New scripts for all Install/Uninstall/Detection - Dell SupportAssist for Business now with Dependency App
1.1.1	- Add Download Information for Dell Display Manager 2.x and Support Matrix
1.2.0	- Rebrand to Microsoft Intune - Update Install instruction Dell Optimizer, add .net 6.x dependency - Update Install instruction Dell Display Manager, add section for DDM 2.x - Correction Dell Command | Update Install/Uninstall script
1.2.1	- Correct Display Manager 2 Install/Uninstall to run with PowerShell 32 Bit
1.2.2	- Update Install instruction Dell Support Assist, add .net 6.x dependency
1.2.3	- Add Dell Peripheral Manager to this document
1.2.4	- Update Dell Trusted Device section from MSI to DUP deployment - Add MS Event logging for install and uninstall scripts
1.2.5	- Update on section Dell Support Assist for Business PC on prepare MSI and MST and update for the Install Script

Summary

This document provides a step-by-step guide to deployment of the Dell Client Tools with Microsoft Intune (Intune) with Intune only option. Installation instructions are also supplied for the deployment of Dell tools with solutions like Microsoft SCCM. This document is designed for modern management systems without co-management.

Recommendation:

This guide will assume that you are using a clean Dell Ready Image. In case you are using the standard preinstallation of Windows 10, please uninstall all existing Dell tools. This will avoid any conflicts between the standard versions that are preinstalled and their corresponding Business version (e.g., Dell SupportAssist vs. Dell SupportAssist for Business PCs) you want to install on your device by following this documentation. Alternatively, you can use a clean Windows 10 image as well but remember that the idea of modern provisioning is not to spend time on creating an OS Image.

Notice: For your security all installations scripts include a check if older versions are installed and start a uninstall first of these Applications.

Deployment Best Practices

In this guide we follow the best practices for modern management with Microsoft Intune / Microsoft Intune. We also take into consideration that most of our customers will leverage modern deployment options like Windows Autopilot for pre-provisioned deployment (also known as Autopilot white glove). That's why we choose to document all examples based on Microsoft Intune Win32 app (.intunewin format) and not by using Line-of-business app (.msi, .appx, .appxbundle, .msix, and .msixbundle formats). Win32 app provides the best experience with its management capabilities and is also preferred formats for all pre-provisioning services.

Dell Trusted Device Agent

Introduction

The Dell Trusted Device agent is part of the Dell SafeBIOS product portfolio. The Trusted Device agent supports these security and identity functions:

- BIOS Verification
- BIOS Events & Indicators of Attack
- Image Capture
- Intel ME Verification
- Security Risk Protection Score
- Dell Event Repository and SIEM integration

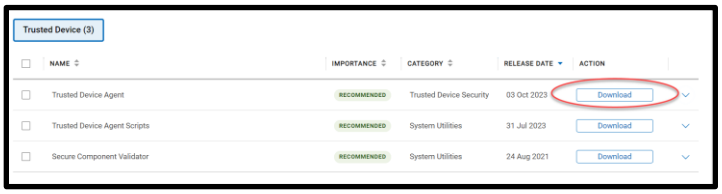
Reference: Dell Trusted Device Installation and Administrator Guide
https://www.dell.com/support/home/en-us/product-support/product/trusted-device/docs

Prepare Dell Trusted Device Agent for Intune

Download of the newest Version of Dell Trusted Device Agent from the Dell website.

https://www.dell.com/support/home/en-us/product-support/product/trusted-device/drivers

Click Download for the Application Trusted Device Agent



If you have downloaded the file from https://www.dell.com/support/home/en-us/product-support/product/trusted-device/drivers, copy file to your software repository for the next step.

Scripts for Install, Uninstall and Detection

It is possible to use the native file for installation. In this document we are using PowerShell scripts to cover different scenarios of Install new, Update, and uninstall for a later automation of uploading applications by API.

All script could be download on Github Repository:
https://github.com/svenriebedell/Dell-Tools-Intune-Install

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
##############################################
#### Function section                     ####
##############################################


function Get-installedcheck
  {

    param
      (
        [Parameter(mandatory=$true)][string] $AppSearchString
      )


    $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

    If ($null -ne $AppCheck)
      {
        return $true
      }
    Else
      {
        return $false
      }

  }

##############################################
#### variable section                     ####
##############################################
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
$AppSearch = "%Dell%Trusted%Device%" #Parameter to search in registry
$UninstallApp = Get-CimInstance -ClassName Win32_Product | Where-Object {$_.Name -like "Dell*Trusted*Device*"}
$SoftwareName = "Dell Trusted Device Agent"
[Version]$ProgramVersion_current = $UninstallApp.Version

##############################################
#### program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#####################################################################
#Checking if older Version is installed and uninstall this Version  #
#####################################################################

If ($null -ne $ProgramVersion_current)
  {

  if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
      ##############################
      # uninstall Software old     #
      ##############################
      $Argument = "/x "+ $UninstallApp.PackageCache + " /qn REBOOT=ReallySuppress"
      Start-Process -FilePath msiexec.exe -ArgumentList "$Argument" -Wait
```

```
        ############################
        # uninstall success check  #
        ############################
        $UninstallResult = Get-installedcheck -AppSearchString $AppSearch

        If ($UninstallResult -eq $true)
           {

               Write-Host "uninstall is unsuccessful" -BackgroundColor Red

               $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $false
                            } | ConvertTo-Json

               Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message
$UninstallData


           }
        Else
           {

               Write-Host "uninstall is successful" -BackgroundColor Green

               $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $true
                            } | ConvertTo-Json

               Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message
$UninstallData

           }


     }

   Else
     {
        Write-Host "same version is installed"

        $UninstallData = [PSCustomObject]@{
                         Software = $SoftwareName
                         Version = ($ProgramVersion_target).ToString()
                         Install = $false
                         Reason = "same version is installed"
                     } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData




        Exit 0
     }
   }


#####################################################################
#Install new Software                                               #
#####################################################################

Start-Process -FilePath "$ProgramPath" -ArgumentList "/s" -Wait

############################
# install success check    #
```

```
##############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -ne $true)
   {

      Write-Host "install is unsuccessful" -BackgroundColor Red

      $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = ($ProgramVersion_target).ToString()
                                    Install = $false
                                    Reason = "Installation failed"
                                   } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

   }
Else
   {

     [Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'" | Select-
Object -ExpandProperty Version

     If ($ProgramVersion_current -ge $ProgramVersion_target)
        {

          Write-Host "install is successful" -BackgroundColor Green

          $UninstallData = [PSCustomObject]@{
                                       Software = $SoftwareName
                                       Version = ($ProgramVersion_target).ToString()
                                       Install = $true
                                       Reason = "Update/Install/Newer Version"
                                      } | ConvertTo-Json

         Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message
$UninstallData

        }
     Else
        {


          Write-Host "install is unsuccessful" -BackgroundColor red


          $UninstallData = [PSCustomObject]@{
                                       Software = $SoftwareName
                                       Version = ($ProgramVersion_target).ToString()
                                       Install = $false
                                       Reason = "Older Version installed $ProgramVersion_current"
                                      } | ConvertTo-Json

          Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message
$UninstallData


        }

   }
```

Uninstall Script

The script starts the uninstalling of application. The Dell Trusted Device requests an immediate reboot. This Reboot will suppress by parameter REBOOT=R

```
###############################################
#### Function section                      ####
###############################################

function Get-installedcheck
  {

     param
       (
         [Parameter(mandatory=$true)][string] $AppSearchString
       )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
       {
         return $true
       }
     Else
       {
         return $false
       }

  }

###############################################
#### variable section                      ####
###############################################
$AppSearch = "%Dell%Trusted%Device%" #Parameter to search in registry
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
$ArgumentString = '/i "'+$ProgramPath + '" /qn REBOOT=ReallySuppress'
$SoftwareName = $Program_current.Name
$ApplicationID_current = $Program_current.IdentifyingNumber

###############################################
#### program section                       ####
###############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#####################################################################
#uninstall Software                                                 #
#####################################################################

# check if Software is installed

if ($null -eq $ApplicationID_current)
  {

    Write-Host "no software is installed"
    exit 0

  }
else
  {

    Start-Process -FilePath msiexec.exe -ArgumentList "/x $ApplicationID_current /qn REBOOT=R" -Wait

    ##############################
    # uninstall success check    #
    ##############################
    $UninstallResult = Get-installedcheck -AppSearchString $AppSearch

    If ($UninstallResult -eq $true)
     {

        Write-Host "uninstall is unsuccessful" -BackgroundColor Red
```

```
        $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = $Program_current.Version
                                    Uninstall = $false
                                  } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


    }
   Else
    {

        Write-Host "uninstall is successful" -BackgroundColor Green

        $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = $Program_current.Version
                                    Uninstall = $true
                                  } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

    }

}
```

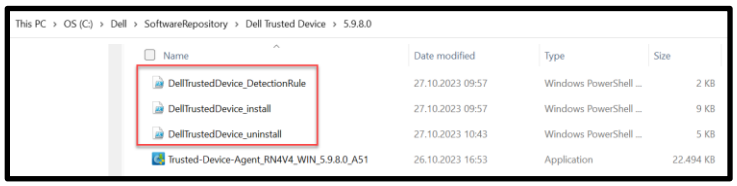
Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

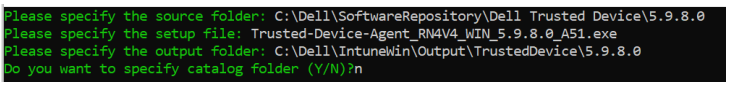
```
##########################################################################################################################################
# Program with target Version                                                                                                            #
##########################################################################################################################################
$ProgramVersion_target = '5.9.8.0' # need to be the same like the msi file
$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Trusted Device%'" | Select-Object -ExpandProperty
Version

if($ProgramVersion_current -ge $ProgramVersion_target)
   {
      Write-Host "Found it!"
   }
```

Please, copy these files in the same folder as your EXE Installer File.

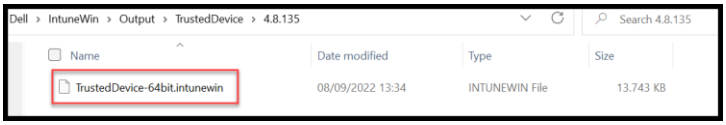


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.



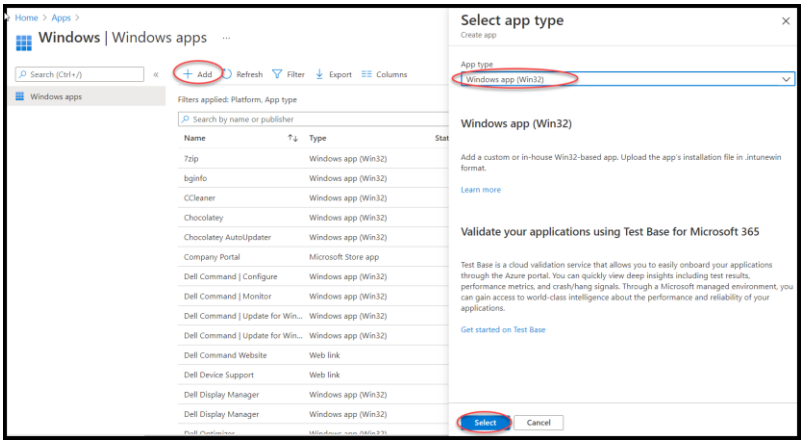
Import and Deployment settings Dell Trusted Device Agent for Intune

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

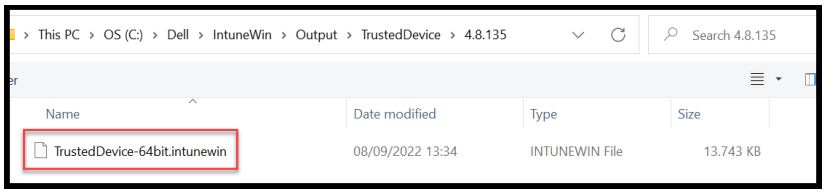


Section ‘App information’

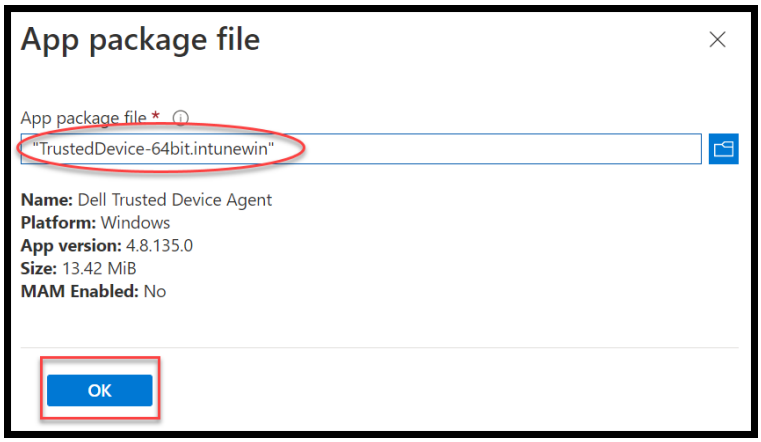
Click ‘Select app package file’

Click ‘Folder’

Select ‘TrustedDevice-64bit.intunewin’

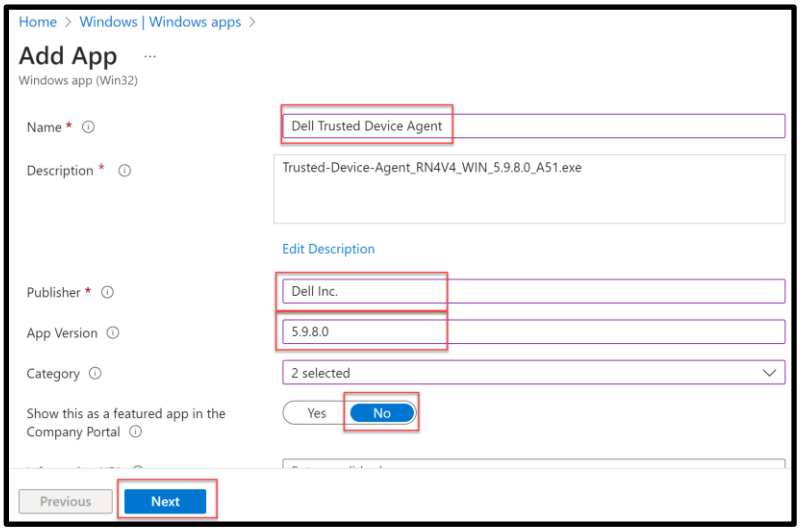


Click ‘OK’



Field	Value
Name	Dell Trusted Device Agent
Publisher	Dell Inc.
App Version	5.9.8.0 **Note:** Use version of the Dell Trusted Device Agent
Show this as a featured app in the Company Portal	No (default security app by device)

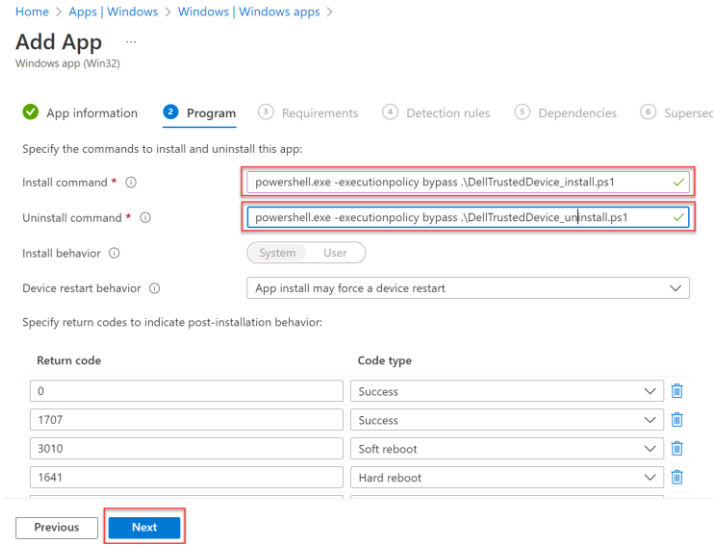
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\DellTrustedDevice_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\DellTrustedDevice_uninstall.ps1

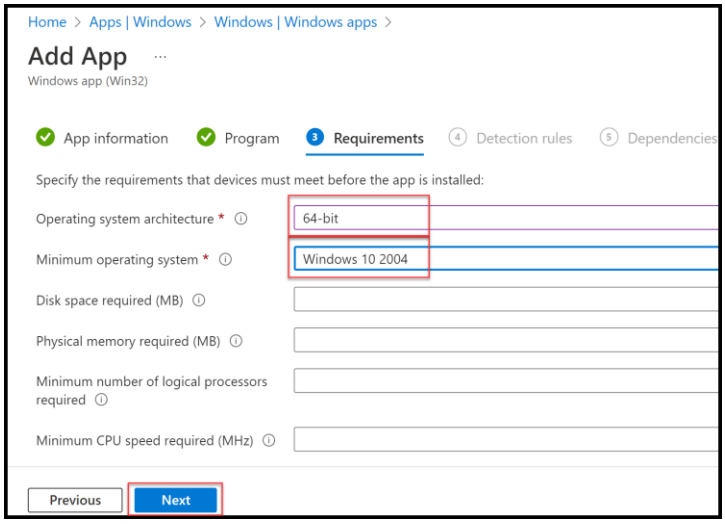
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

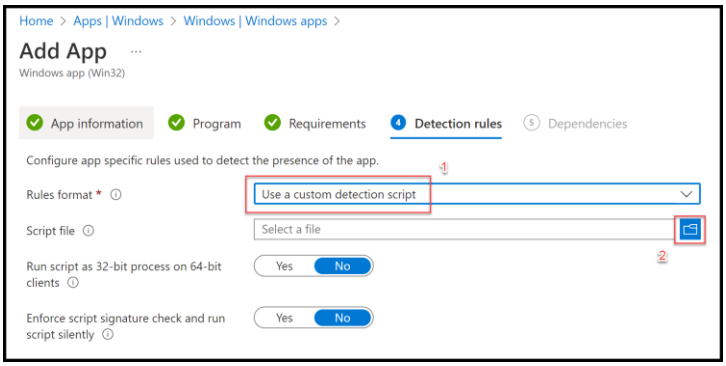
Click ‘Next’



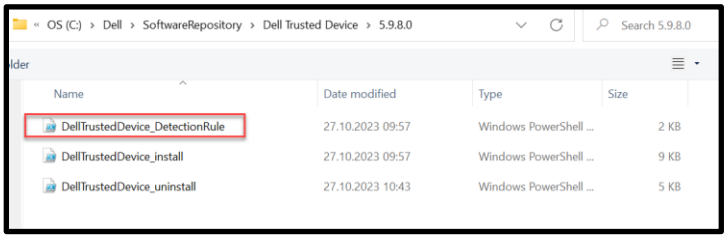
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

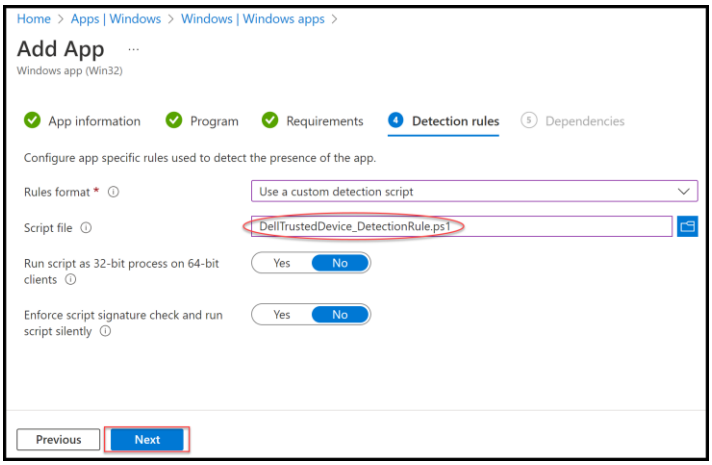
Click ‘Folder’



Select ‘DellTrustedDevice_DetectionRule.ps1’



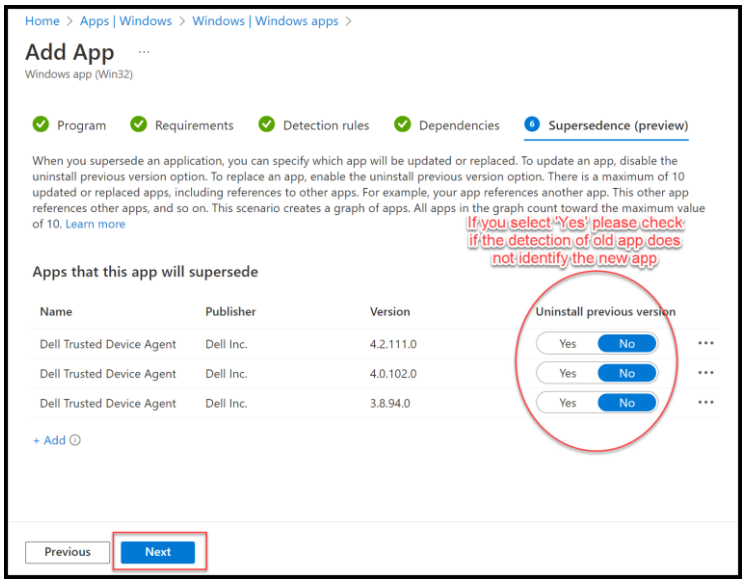
Click ‘Next’



Section ‘Dependencies’

No changes

Section ‘Supersedence’



No changes

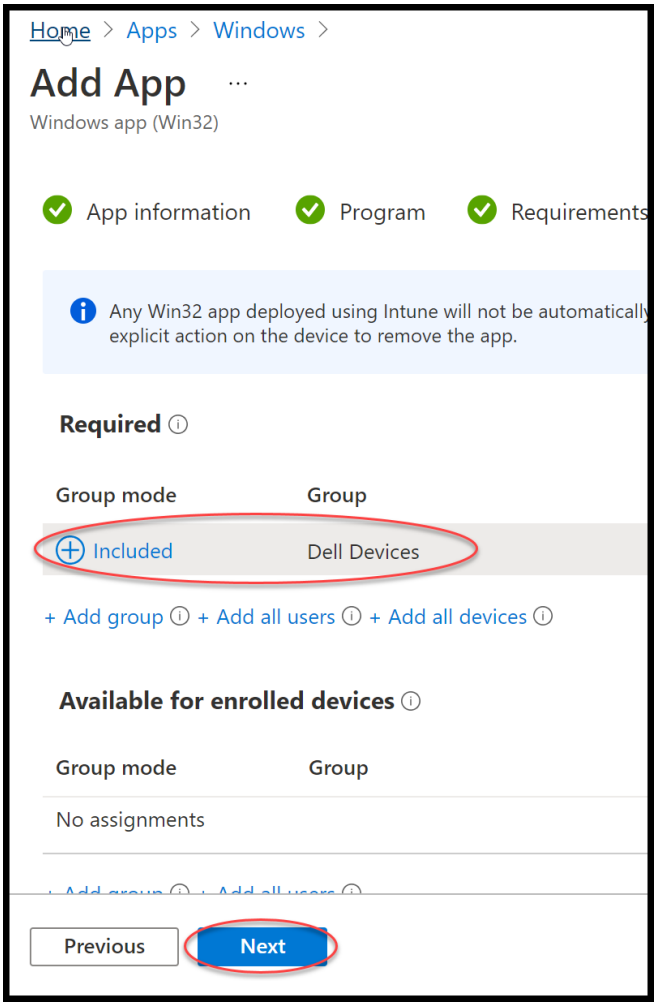
Note: You can also uninstall old software via Supersede, but make sure that the detection of the old application does not also detect the new one, otherwise you will create an installation loop.

Section ‘Assignments’

The Dell Trusted Device Agent supports only Dell (Latitude, Optiplex, Precision and mobile XPS) it makes sense to have a dynamic group which only incl. these systems.

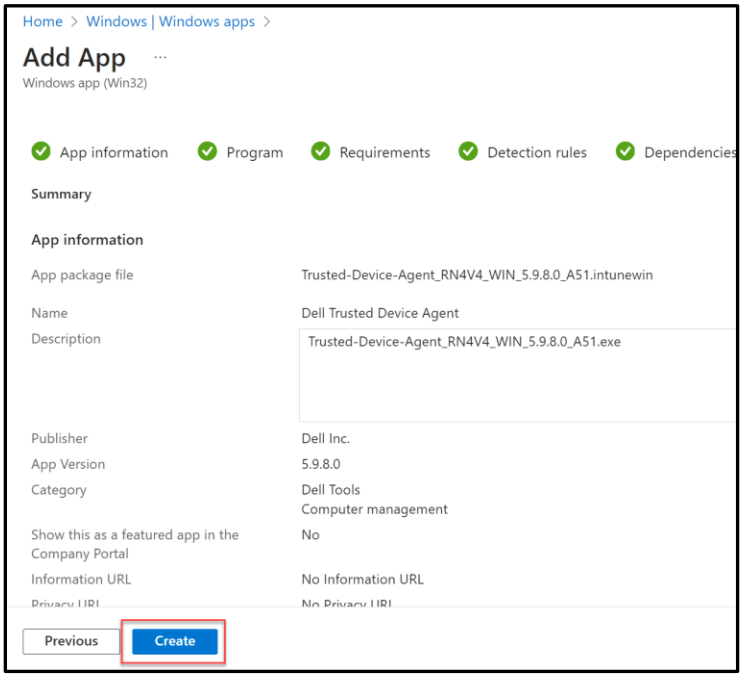
Option	Value
Required	Add group ‘Dell Devices’
Available for enrolled devices	
Uninstall	

Click ‘Next’

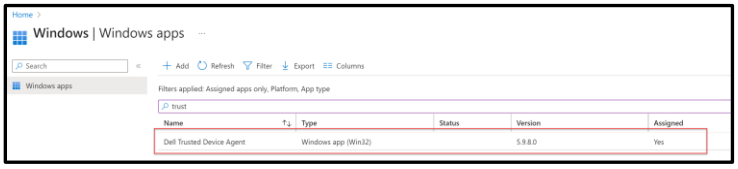


The app is now finished

Click ‘Create’



Ready to work.



Dell Power Manager

Introduction

Dell Power Manager software provides simplified and efficient power management capabilities for Dell notebooks and tablets running Windows 7, Windows 8, and Windows 10 operating systems.

Dell Power Manager Version User Guide
https://www.dell.com/support/home/en-us/product-support/product/dell-command-power-manager/docs

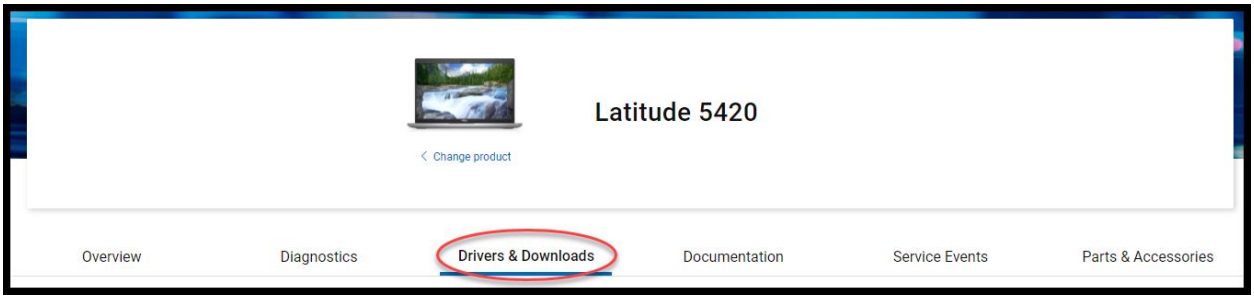
NOTICE: If you have installed Dell Optimizer 4.0.310.0 or later you cannot install Dell Power Manager on the same device separately.

Prepare Dell Power Manager for Intune

Download the newest Version of Dell Power Manager from our website.

https://www.dell.com/support/home/en-us

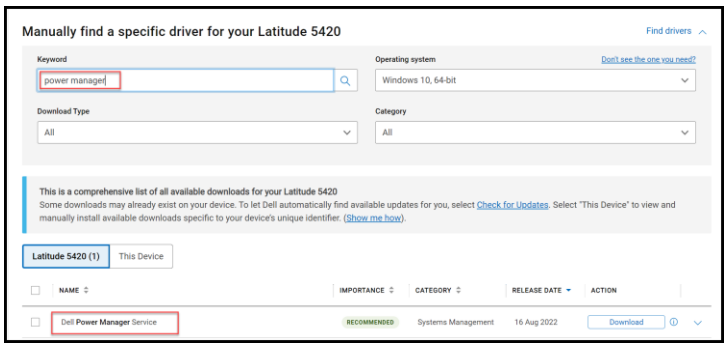
Note: Please select a device platform like Latitude 5420 and move to section ‘Drivers & Downloads’



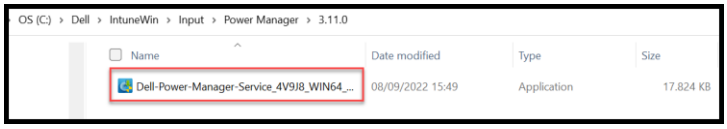
Choose Manually to find a specific driver

Field	Value
Keyword	Power Manager

Find ‘Dell Power Manager Service’ and download the installer file.



If you have downloaded the file from dell.com/support, copy file to your software repository for the next step.



Scripts for Install, Uninstall and Detection

It is possible to use the native file for installation. In this document we are using PowerShell scripts to cover different scenarios of Install new, Update, and uninstall for a later automation of uploading applications by API.

All script could be download on Github Repository:
https://github.com/svenriebedell/Dell-Tools-Intune-Install

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
##############################################
#### Function section                    ####
##############################################

function Get-installedcheck
  {

     param
        (
          [Parameter(mandatory=$true)][string] $AppSearchString
        )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
        {
          return $true
        }
     Else
        {
          return $false
        }

  }

##############################################
#### variable section                    ####
##############################################

$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
$AppSearch = "%Dell%Power%Manager%" #Parameter to search in registry
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
[Version]$ProgramVersion_current = $Program_current.Version
$ApplicationID_current = $Program_current.IdentifyingNumber
$SoftwareName = $Program_current.Name

$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
$SoftwareName = $Program_current.Name
$ApplicationID_current = $Program_current.IdentifyingNumber

##############################################
#### program section                     ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore



#####################################################################
#Checking if older Version is installed and uninstall this Version#
#####################################################################

If ($null -ne $ProgramVersion_current)
  {

  if ($ProgramVersion_target -gt $ProgramVersion_current)
     {
        ##############################
        # uninstall Software old     #
        ##############################
        Start-Process -FilePath msiexec.exe -ArgumentList "/x $ApplicationID_current /qn" -Wait

        ##############################
        # uninstall success check    #
        ##############################
        $UninstallResult = Get-installedcheck -AppSearchString $AppSearch
```

```
        If ($UninstallResult -eq $true)
          {

            Write-Host "uninstall is unsuccessful" -BackgroundColor Red

            $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $false
                            } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


          }
        Else
          {

            Write-Host "uninstall is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $true
                            } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

          }


    }

  Else
    {
      Write-Host "same version is installed"

      $UninstallData = [PSCustomObject]@{
                          Software = $SoftwareName
                          Version = ($ProgramVersion_target).ToString()
                          Install = $false
                          Reason = "same version is installed"
                      } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData



      Exit 0
    }

  }


#####################################################################
#Install new Software                                               #
#####################################################################

Start-Process -FilePath "$ProgramPath" -ArgumentList "/s" -Wait

############################
# install success check    #
############################
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
$SoftwareName = $Program_current.Name
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -ne $true)
  {

    Write-Host "install is unsuccessful" -BackgroundColor Red

    $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_target).ToString()
                        Install = $false
                        Reason = "Installation failed, please check if a version of Dell Optimizer is installed on the machine"
```

```
                        } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

  }
Else
  {

    [Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'" | Select-Object -
ExpandProperty Version

    If ($ProgramVersion_current -ge $ProgramVersion_target)
      {

        Write-Host "install is successful" -BackgroundColor Green

        $UninstallData = [PSCustomObject]@{
                            Software = $SoftwareName
                            Version = ($ProgramVersion_target).ToString()
                            Install = $true
                            Reason = "Update/Install/Newer Version"
                          } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData

      }
    Else
      {


        Write-Host "install is unsuccessful" -BackgroundColor red


        $UninstallData = [PSCustomObject]@{
                            Software = $SoftwareName
                            Version = ($ProgramVersion_target).ToString()
                            Install = $false
                            Reason = "Older Version installed $ProgramVersion_current"
                          } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData


      }

  }
```

Uninstall Script

The script starts the uninstalling of application.

```
################################################
#### Function section                    ####
################################################

function Get-installedcheck
  {

     param
       (
         [Parameter(mandatory=$true)][string] $AppSearchString
       )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
       {
         return $true
       }
     Else
       {
         return $false
       }

  }

################################################
#### variable section                    ####
################################################
$AppSearch = "%Dell%Power%Manager%" #Parameter to search in registry
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
$SoftwareName = $Program_current.Name
$ApplicationID_current = $Program_current.IdentifyingNumber

################################################
#### program section                     ####
################################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#####################################################################
#uninstall Software                                 #
#####################################################################

Start-Process -FilePath msiexec.exe -ArgumentList "/x $ApplicationID_current /qn" -Wait

#############################
# uninstall success check   #
#############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -eq $true)
  {

     Write-Host "uninstall is unsuccessful" -BackgroundColor Red

     $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = $Program_current.Version
                                Uninstall = $false
                              } | ConvertTo-Json

     Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


  }
Else
  {

     Write-Host "uninstall is successful" -BackgroundColor Green
```

```
    $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = $Program_current.Version
                                Uninstall = $true
                               } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

}
```

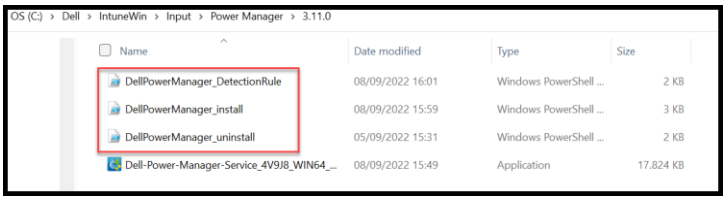
Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

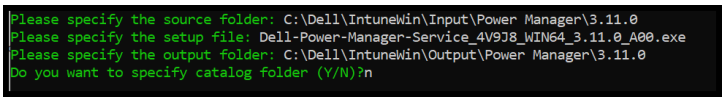
```
################################################################################
# Program with target Version
################################################################################
$ProgramVersion_target = '3.11.0'    # need to be the same like the exe file
$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Power%Manager%'" | select -ExpandProperty
Version

if($ProgramVersion_current -eq $ProgramVersion_target)
  {
    Write-Host "Found it!"
  }
```

Please, copy these files in the same folder as your EXE Installer File.

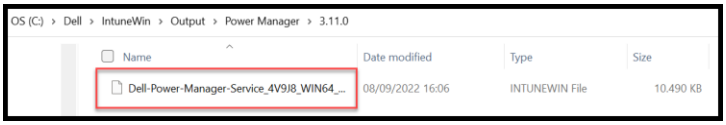


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.


OS (C:) › Dell › IntuneWin › Output › Power Manager › 3.11.0
Name
Date modified
Type
Size
Dell-Power-Manager-Service_4V9J8_WIN64_...
08/09/2022 16:06
INTUNEWIN File
10.490 KB

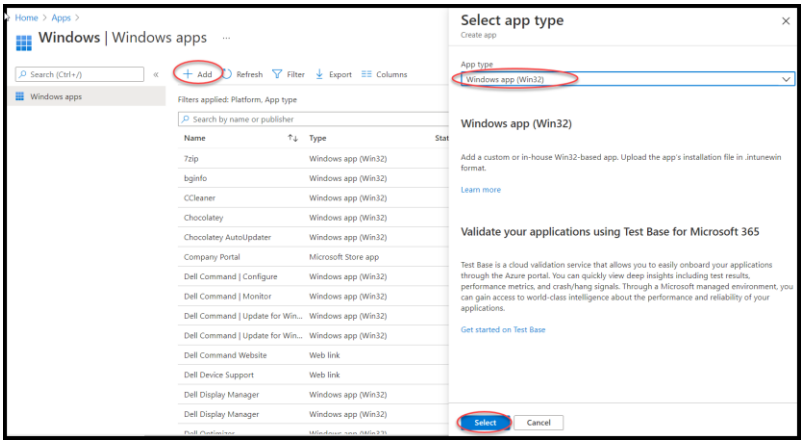
Import and Deployment settings Dell Power Manager for Intune

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

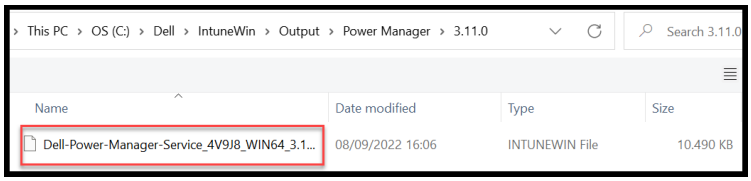


Section ‘App information’

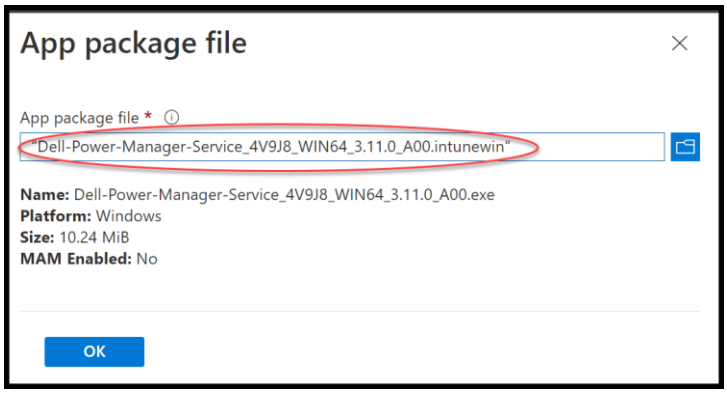
Click ‘Select app package file’

Click ‘Folder’

Select ‘Dell-Power-Manager-Service_4V9J8_WIN64_3.11.0_A00.intunewin’

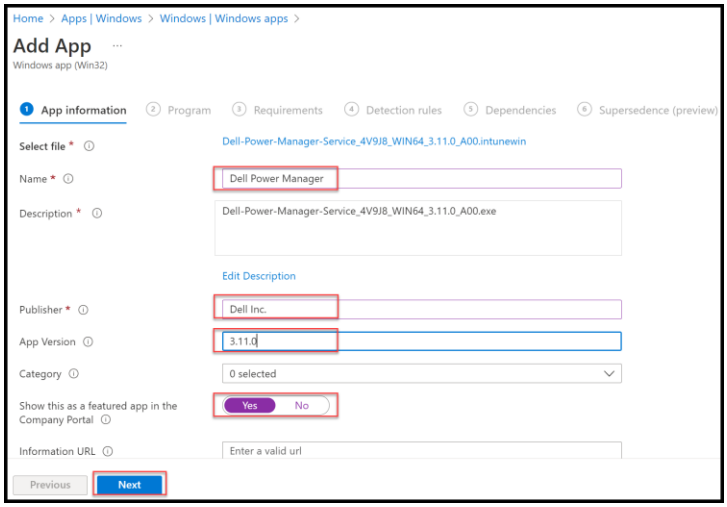


Click ‘OK’



Field	Value
Name	Dell Power Manager
Publisher	Dell Inc.
App Version	3.11.0 **Note:** Use version of the Dell Power Manager
Show this as a featured app in the Company Portal	Yes

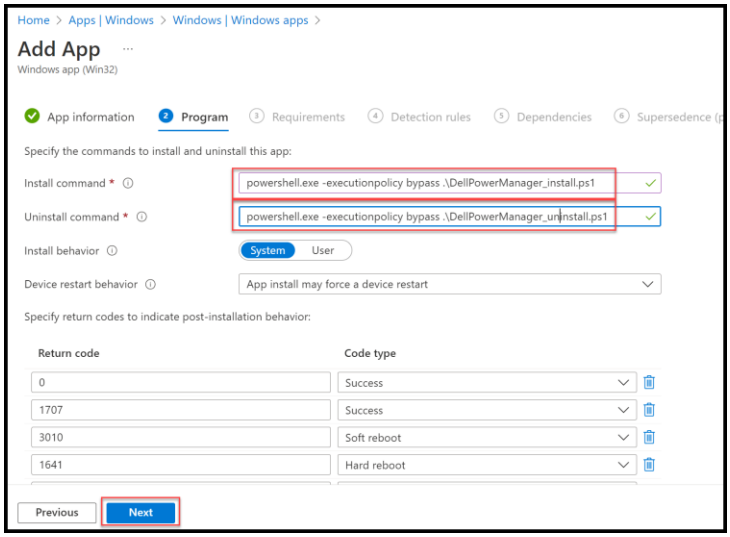
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\DellPowerManager_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\DellPowerManager_uninstall.ps1

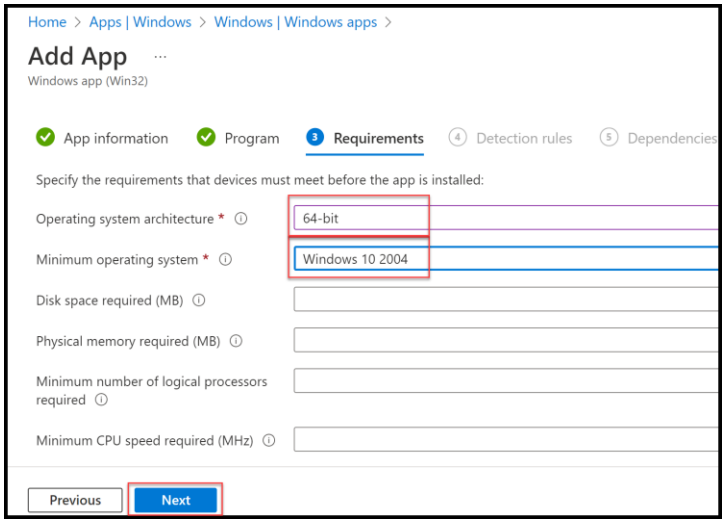
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

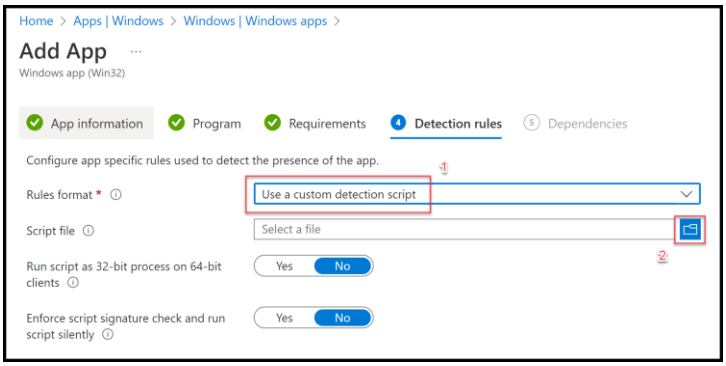
Click ‘Next’



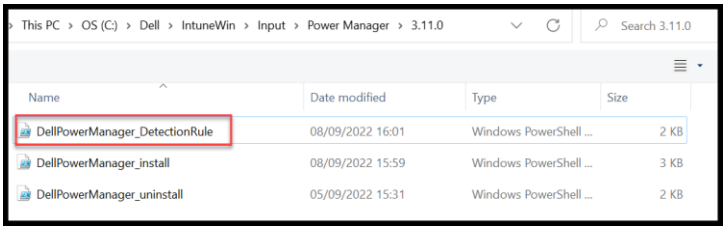
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

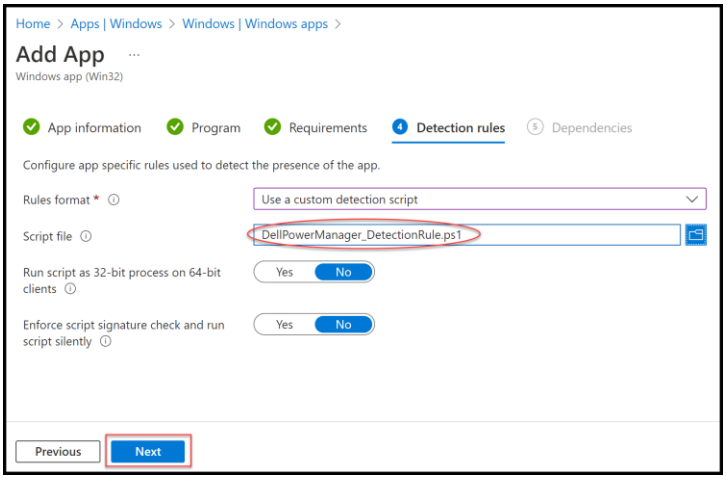
Click ‘Folder’



Select ‘DellPowerManager_DetectionRule.ps1’



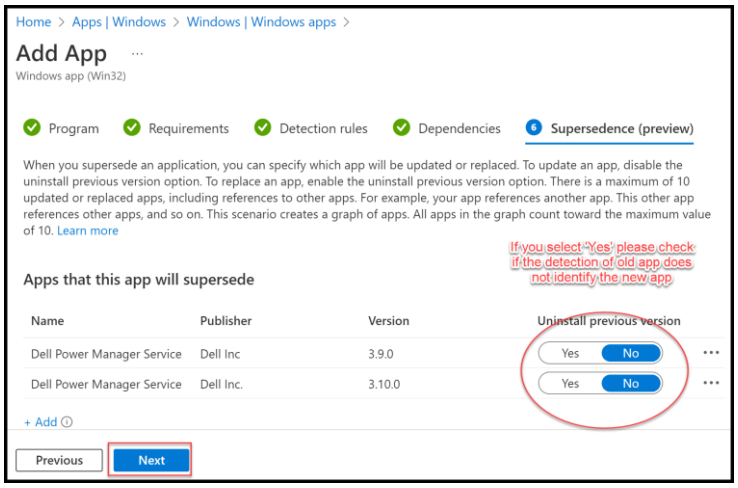
Click ‘Next’



Section ‘Dependencies’

No changes

Section ‘Supersedence’



No changes

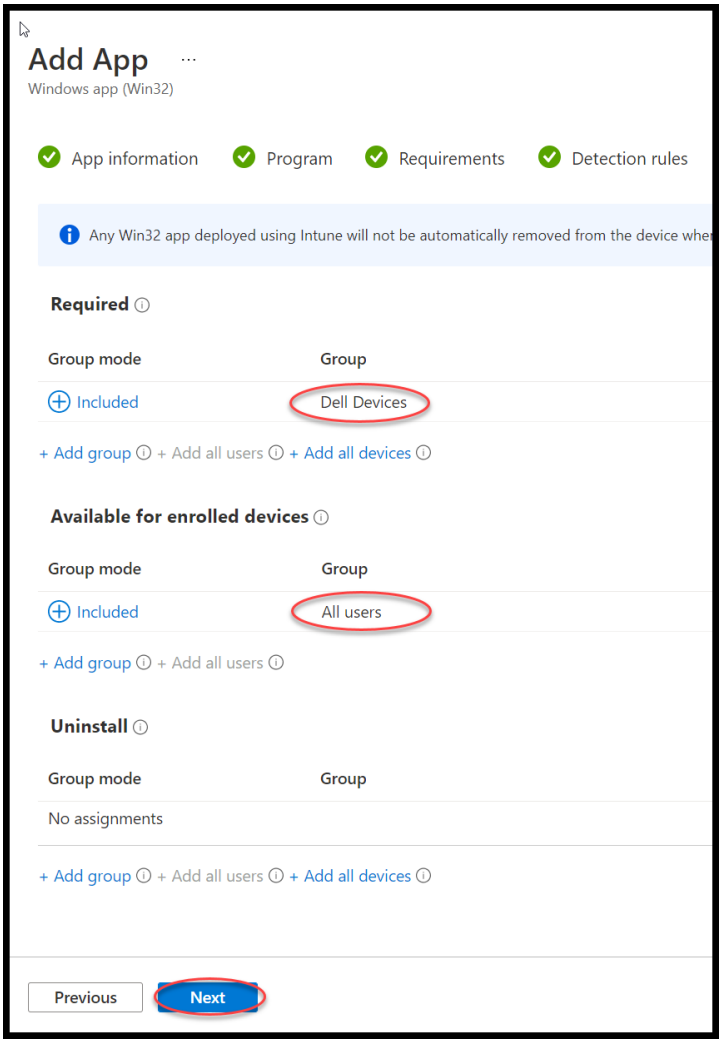
Note: You can also uninstall old software via Supersede, but make sure that the detection of the old application does not also detect the new one, otherwise you will create an installation loop.

Section ‘Assignments’

The Dell Power Manager supports only Dell (Latitude, Optiplex, Precision and mobile XPS) it makes sense to have da dynamic group which only incl. these systems.

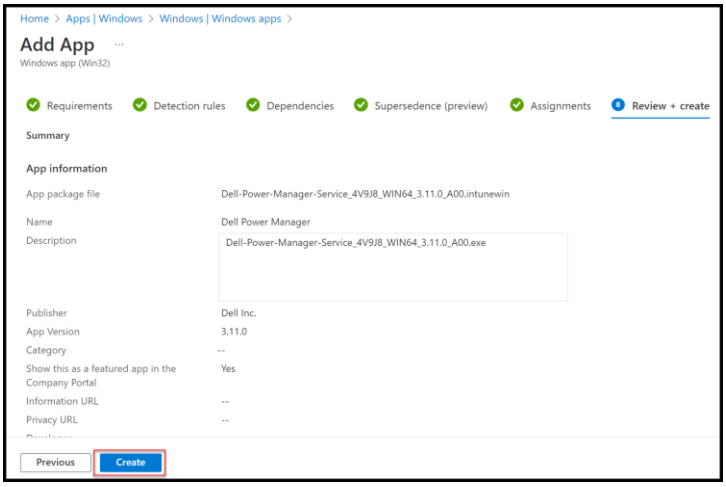
Option	Value
Required	Add group ‘Dell Devices’
Available for enrolled devices	Add group ‘All User’
Uninstall	

Click ‘Next’

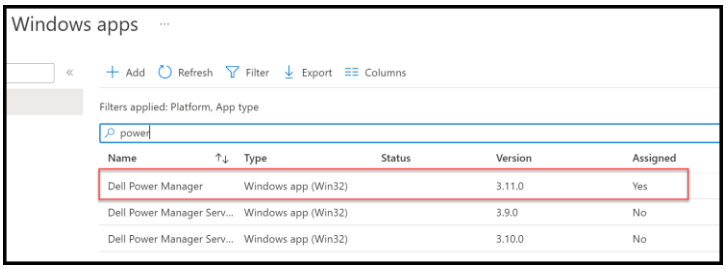


The app is now finished

Click ‘Create’



Ready to work.



Dell Command | Update

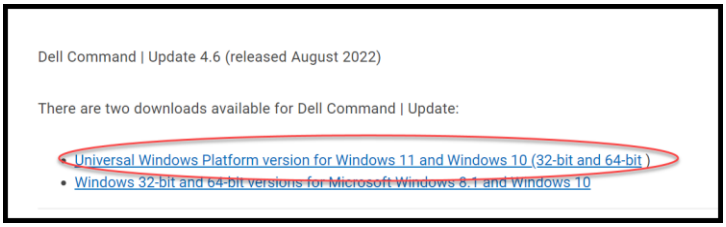
Introduction

Dell Command | Update is a stand-alone application, for commercial client computers that provides updates for system software released by Dell. This application simplifies the BIOS, firmware, driver, and application update experience for Dell commercial client hardware. This application can also be used to install drivers after the operating system and network drivers are installed, based on the computer identity.

Dell Command | Update Reference Guide
https://www.dell.com/support/home/en-us/product-support/product/command-update/docs

Prepare Dell Command | Update for Intune

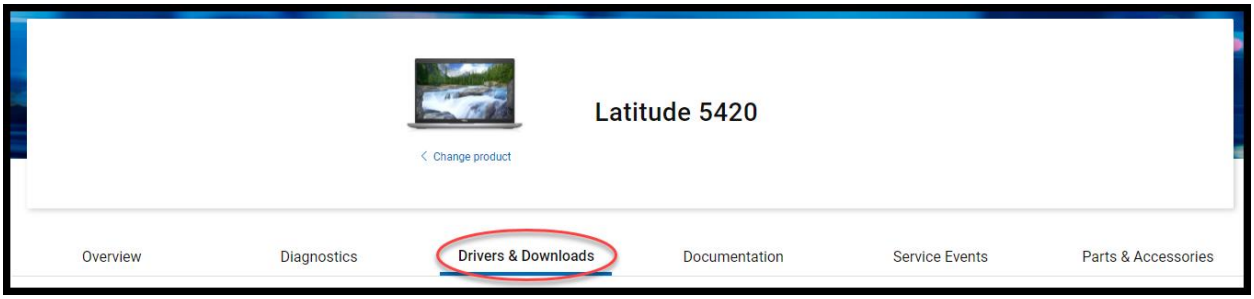
Please be aware that Dell offers two Versions of installer Dell Command | Update Application for Windows 10 (or Windows Universal Application) and Dell Command | Update. For this guide we are using the Universal Windows Application.



Download the newest Version of Dell Command | Update from our website.

https://www.dell.com/support/home/en-us

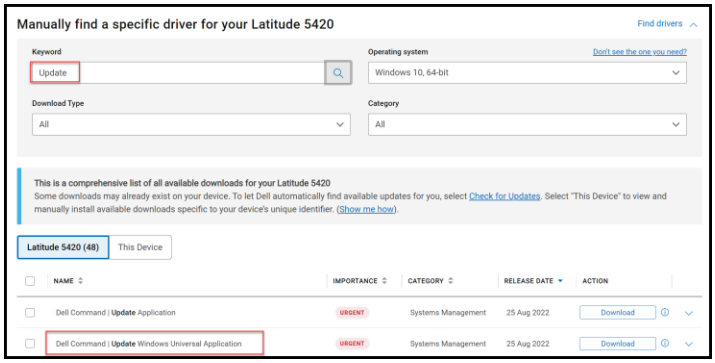
Note: Please select a device platform like Latitude 5420 and move to section ‘Drivers & Downloads’



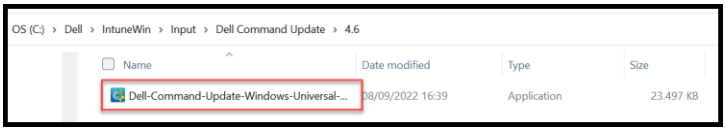
Choose Manually to find a specific driver

Field	Value
Keyword	Update

Find ‘Dell Command | Update Windows Universal Application’ and download the installer file.



If you have downloaded the file from https://www.dell.com/support, copy file to your software repository for the next step.



Scripts for Install, Uninstall and Detection

It is possible to use the native file for installation. In this document we are using PowerShell scripts to cover different scenarios of Install new, Update, and uninstall for a later automation of uploading applications by API.

All script could be download on Github Repository:
https://github.com/svenriebedell/Dell-Tools-Intune-Install

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
##############################################
#### Function section                     ####
##############################################

function Get-installedcheck
  {

     param
        (
          [Parameter(mandatory=$true)][string] $AppSearchString
        )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
        {
          return $true
        }
     Else
        {
          return $false
        }

  }

##############################################
#### variable section                     ####
##############################################
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
$AppSearch = "%Dell Command%Update%" #Parameter to search in registry
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
$UninstallApp = Get-CimInstance -ClassName Win32_Product | Where-Object {$_.Name -like "Dell*Command*Update*"}
$SoftwareName = $UninstallApp.Name
[Version]$ProgramVersion_current = $UninstallApp.Version


##############################################
#### program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#####################################################################
#Checking if older Version is installed and uninstall this Version  #
#####################################################################

If ($null -ne $ProgramVersion_current)
  {

  if ($ProgramVersion_target -gt $ProgramVersion_current)
     {
        ############################
        # uninstall Software old   #
        ############################
        $Argument = "/x "+ $UninstallApp.PackageCache + " /qn"
        Start-Process -FilePath msiexec.exe -ArgumentList "$Argument" -Wait

        ############################
        # uninstall success check  #
        ############################
        $UninstallResult = Get-installedcheck -AppSearchString $AppSearch

        If ($UninstallResult -eq $true)
           {

              Write-Host "uninstall is unsuccessful" -BackgroundColor Red
```

```
            $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $false
                            } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


          }
        Else
          {

            Write-Host "uninstall is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $true
                            } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

          }


      }

   Else
      {
        Write-Host "same version is installed"

        $UninstallData = [PSCustomObject]@{
                            Software = $SoftwareName
                            Version = ($ProgramVersion_target).ToString()
                            Install = $false
                            Reason = "same version is installed"
                        } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData



        Exit 0
      }
   }


#####################################################################
#Install new Software                                               #
#####################################################################

Start-Process -FilePath "$ProgramPath" -ArgumentList "/s" -Wait

############################
# install success check    #
############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch
$UninstallApp = Get-CimInstance -ClassName Win32_Product | Where-Object {$_.Name -like "Dell*Command*Update*"}
$SoftwareName = $UninstallApp.Name

If ($UninstallResult -ne $true)
   {

      Write-Host "install is unsuccessful" -BackgroundColor Red

      $UninstallData = [PSCustomObject]@{
                            Software = "Dell Command | Update Classic/UWP"
                            Version = ($ProgramVersion_target).ToString()
                            Install = $false
                            Reason = "Installation failed"
                           } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

   }
Else
   {
```

```
    [Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'" | Select-Object -
ExpandProperty Version

    If ($ProgramVersion_current -ge $ProgramVersion_target)
       {

          Write-Host "install is successful" -BackgroundColor Green

          $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = ($ProgramVersion_target).ToString()
                                    Install = $true
                                    Reason = "Update/Install/Newer Version"
                                   } | ConvertTo-Json

         Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData

       }
    Else
       {


         Write-Host "install is unsuccessful" -BackgroundColor red


         $UninstallData = [PSCustomObject]@{
                                   Software = $SoftwareName
                                   Version = ($ProgramVersion_target).ToString()
                                   Install = $false
                                   Reason = "Older Version installed $ProgramVersion_current"
                                  } | ConvertTo-Json

         Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData


       }

  }
```

Uninstall Script

```
##############################################
#### Function section                     ####
##############################################

function Get-installedcheck
  {

    param
      (
        [Parameter(mandatory=$true)][string] $AppSearchString
      )


    $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

    If ($null -ne $AppCheck)
      {
        return $true
      }
    Else
      {
        return $false
      }

  }


##############################################
#### variable section                     ####
##############################################
$UninstallApp = Get-CimInstance -ClassName Win32_Product | Where-Object {$_.Name -like "Dell*Command*Update*"}
$AppSearch = "%Dell Command%Update%" #Parameter to search in registry
$SoftwareName = $UninstallApp.Name


##############################################
#### program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

##############################
# uninstall Software         #
##############################
$Argument = "/x "+ $UninstallApp.PackageCache + " /qn"
Start-Process -FilePath msiexec.exe -ArgumentList "$Argument" -Wait

##############################
# uninstall success check    #
##############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -eq $true)
  {

    Write-Host "uninstall is unsuccessful" -BackgroundColor Red

    $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = $UninstallApp.Version
                        Uninstall = $false
                    } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


  }
Else
  {

    Write-Host "uninstall is successful" -BackgroundColor Green

    $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
```

```
                    Version = $UninstallApp.Version
                    Uninstall = $true
                } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

}
```

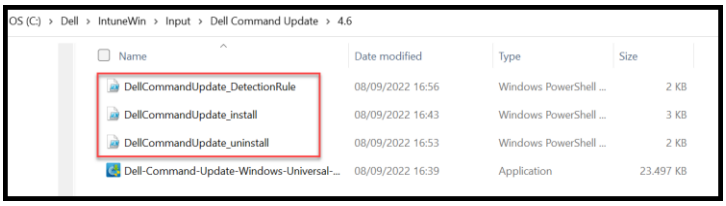
Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

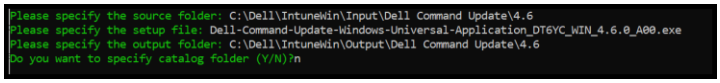
```
#############################################################################################
# Program with target Version
#############################################################################################
$ProgramVersion_target = '4.6.0' # need to be the same like the exe file
$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Command%Update%'" | Select-Object -
ExpandProperty Version

if($ProgramVersion_current -eq $ProgramVersion_target)
  {
    Write-Host "Found it!"
  }
```

Please, copy these files in the same folder as your EXE Installer File.

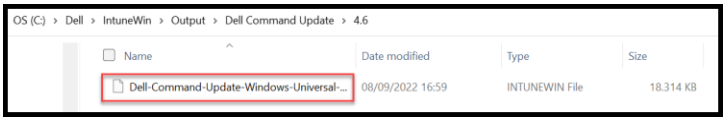


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.



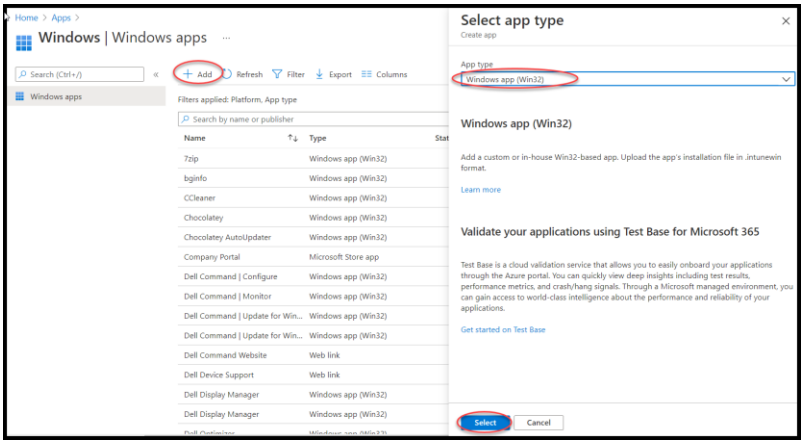
Import and Deployment settings Dell Command | Update for Intune

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

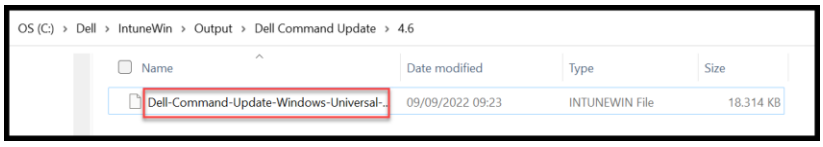


Section ‘App information’

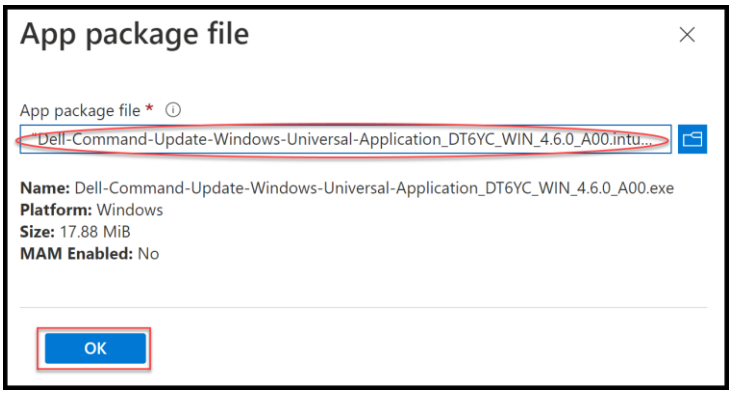
Click ‘Select app package file’

Click ‘Folder’

Select ‘Dell-Command-Update-Windows-Universal-Application_DT6YC_WIN_4.6.0_A00.intunewin’

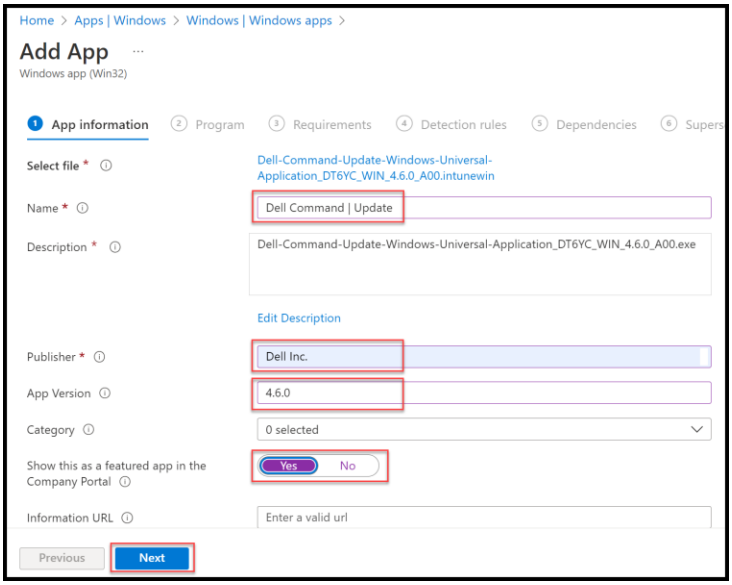


Click ‘OK’



Field	Value
Name	Dell Command | Update
Publisher	Dell Inc.
App Version	4.6.0 **Note:** Use version of the Dell Command | Update
Show this as a featured app in the Company Portal	Yes

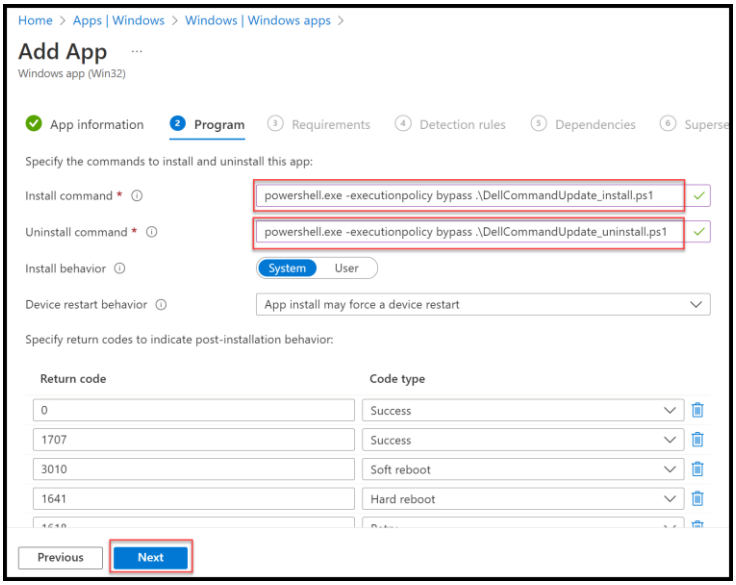
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\DellCommandUpdate_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\DellCommandUpdate_uninstall.ps1

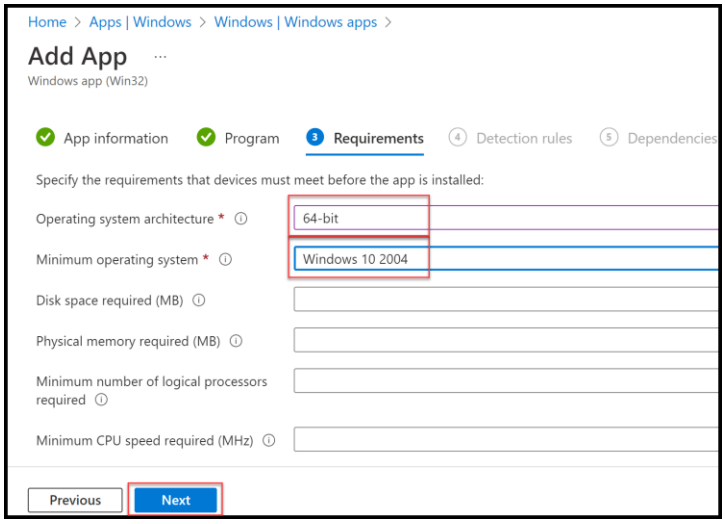
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

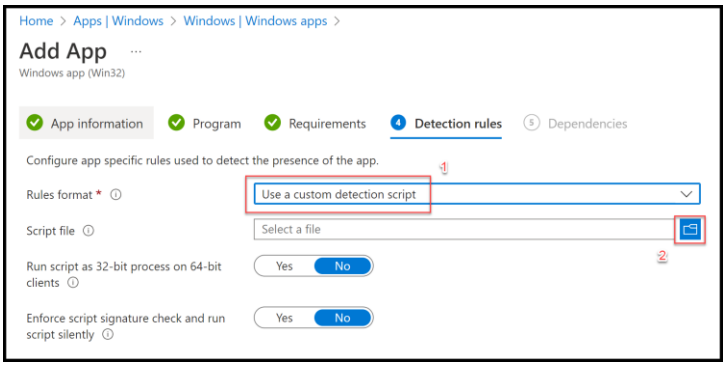
Click ‘Next’



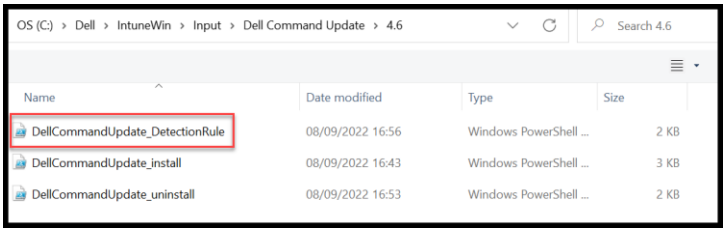
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

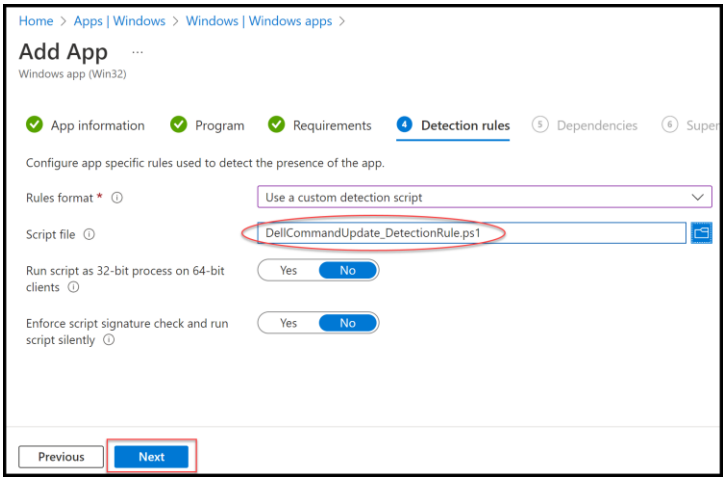
Click ‘Folder’



Select ‘DellCommandUpdate_DetectionRule.ps1’



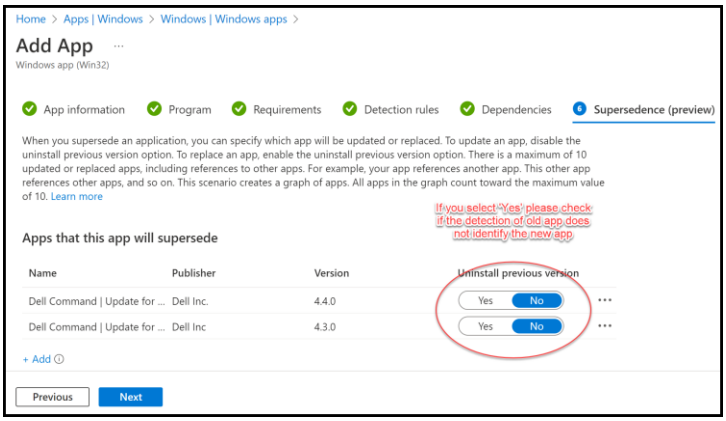
Click ‘Next’



Section ‘Dependencies’

No changes

Section ‘Supersedence’



No changes

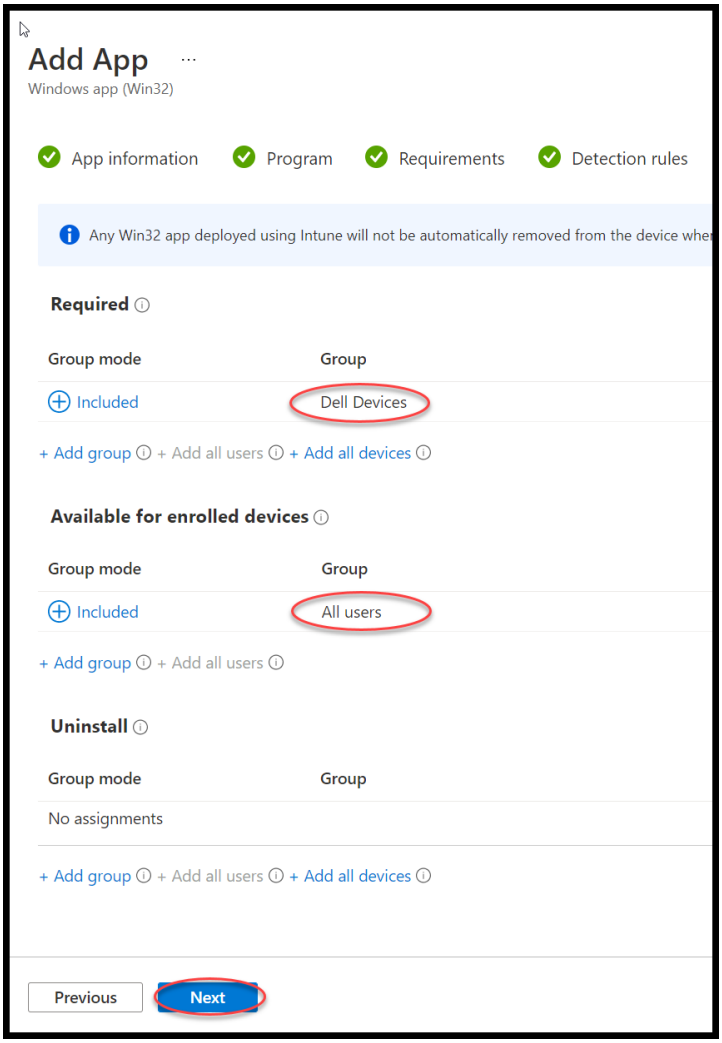
Note: You can also uninstall old software via Supersede, but make sure that the detection of the old application does not also detect the new one, otherwise you will create an installation loop.

Section ‘Assignments’

The Dell Command | Update supports only Dell (Latitude, Optiplex, Precision and mobile XPS) it makes sense to have da dynamic group which only incl. these systems.

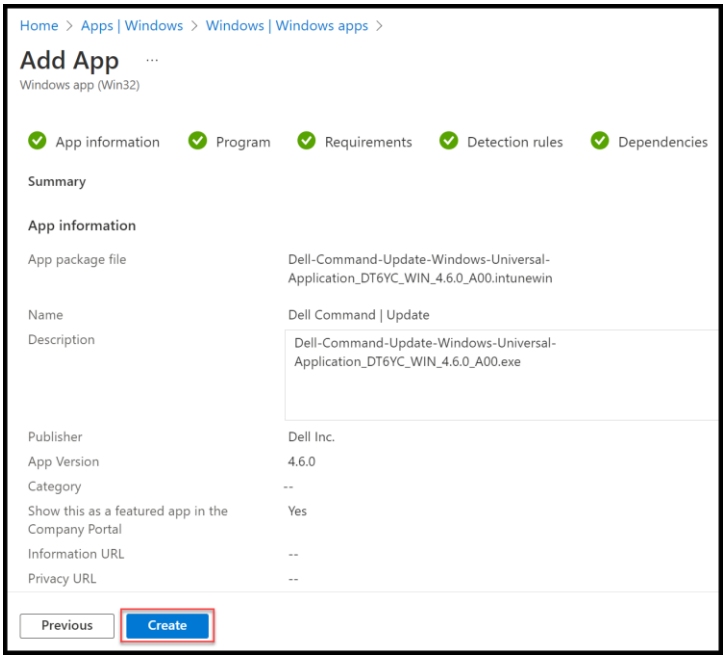
Option	Value
Required	Add group ‘Dell Devices’
Available for enrolled devices	Add group ‘All User’
Uninstall	

Click ‘Next’

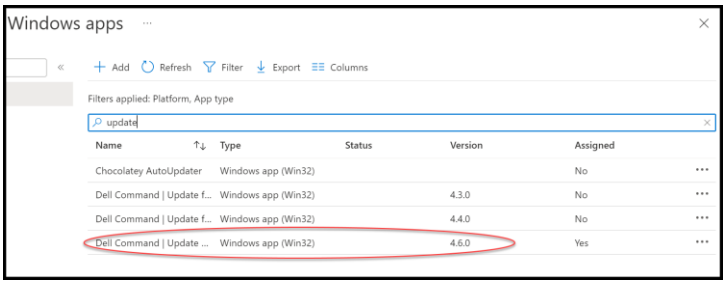


The app is now finished

Click ‘Create’



Ready to work.



Dell Command | Monitor

Introduction

The Dell Command | Monitor software application enables IT administrators to easily manage fleet inventory, monitor system health, modify BIOS settings, and remotely collect information for deployed Dell client systems.

Active system health state monitoring can help reduce the total cost of system ownership and is part of a holistic approach to managing all networked devices.

Dell Command | Monitor is designed for Dell Enterprise client systems, Dell IoT Gateway systems, and for Dell Embedded PCs.

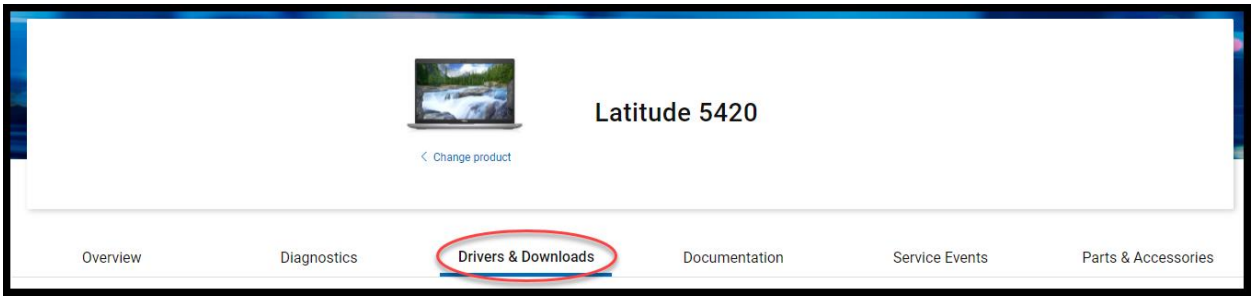
Dell Command | Monitor Reference Guide
https://www.dell.com/support/home/en-us/product-support/product/command-monitor/docs

Prepare Dell Command | Monitor for Intune

Download the newest Version of Dell Command | Update from our website.

https://www.dell.com/support/home/en-us

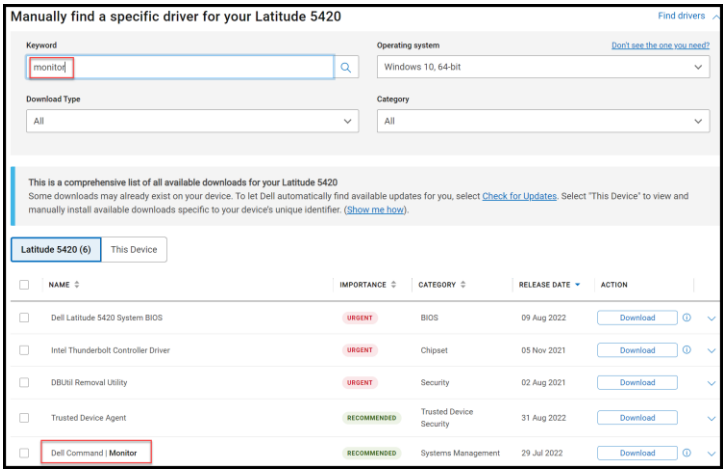
Note: Please select a device platform like Latitude 5420 and move to section ‘Drivers & Downloads’



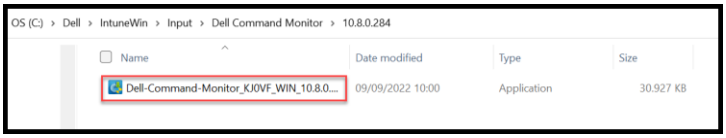
Choose Manually to find a specific driver

Field	Value
Keyword	Update

Find ‘Dell Command | Monitor’ and download the installer file.



If you have downloaded the file from https://www.dell.com/support/kbdoc/en-us/000177080/dell-command-monitor, copy file to your software repository for the next step.



Scripts for Install, Uninstall and Detection

It is possible to use the native file for installation. In this document we are using PowerShell scripts to cover different scenarios of Install new, Update, and uninstall for a later automation of uploading applications by API.

All script could be download on Github Repository:
https://github.com/svenriebedell/Dell-Tools-Intune-Install

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
##############################################
#### Function section                     ####
##############################################

function Get-installedcheck
  {

     param
        (
          [Parameter(mandatory=$true)][string] $AppSearchString
        )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
        {
          return $true
        }
     Else
        {
          return $false
        }

  }

##############################################
#### variable section                     ####
##############################################
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
$AppSearch = "%Dell%Monitor%" #Parameter to search in registry
$UninstallApp = Get-CimInstance -ClassName Win32_Product | Where-Object {$_.Name -like "Dell*Monitor*"}
$SoftwareName = "Dell Command | Monitor"
[Version]$ProgramVersion_current = $UninstallApp.Version

##############################################
#### program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#####################################################################
#Checking if older Version is installed and uninstall this Version  #
#####################################################################

If ($null -ne $ProgramVersion_current)
  {

  if ($ProgramVersion_target -gt $ProgramVersion_current)
     {
        ##############################
        # uninstall Software old     #
        ##############################
        $Argument = "/x "+ $UninstallApp.PackageCache + " /qn"
        Start-Process -FilePath msiexec.exe -ArgumentList "$Argument" -Wait

        ##############################
        # uninstall success check    #
        ##############################
        $UninstallResult = Get-installedcheck -AppSearchString $AppSearch

        If ($UninstallResult -eq $true)
           {

              Write-Host "uninstall is unsuccessful" -BackgroundColor Red

              $UninstallData = [PSCustomObject]@{
```

```
                        Software = $SoftwareName
                        Version = ($ProgramVersion_current).ToString()
                        Uninstall = $false
                    } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


          }
        Else
          {

            Write-Host "uninstall is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_current).ToString()
                        Uninstall = $true
                    } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

          }


      }

   Else
      {
        Write-Host "same version is installed"

        $UninstallData = [PSCustomObject]@{
                    Software = $SoftwareName
                    Version = ($ProgramVersion_target).ToString()
                    Install = $false
                    Reason = "same version is installed"
                } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData



        Exit 0
      }
   }


######################################################################
#Install new Software                                                #
######################################################################

Start-Process -FilePath "$ProgramPath" -ArgumentList "/s" -Wait

##############################
# install success check      #
##############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -ne $true)
   {

      Write-Host "install is unsuccessful" -BackgroundColor Red

      $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_target).ToString()
                        Install = $false
                        Reason = "Installation failed"
                       } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

   }
Else
   {

     [Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'" | Select-Object -
ExpandProperty Version
```

```
    If ($ProgramVersion_current -ge $ProgramVersion_target)
        {

            Write-Host "install is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                                        Software = $SoftwareName
                                        Version = ($ProgramVersion_target).ToString()
                                        Install = $true
                                        Reason = "Update/Install/Newer Version"
                                       } | ConvertTo-Json

           Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData

        }
    Else
        {


           Write-Host "install is unsuccessful" -BackgroundColor red


           $UninstallData = [PSCustomObject]@{
                                       Software = $SoftwareName
                                       Version = ($ProgramVersion_target).ToString()
                                       Install = $false
                                       Reason = "Older Version installed $ProgramVersion_current"
                                      } | ConvertTo-Json

           Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData


        }

}
```

Uninstall Script

The script starts the uninstalling of application.

```
################################################
#### Function section                       ####
################################################

function Get-installedcheck
  {

     param
       (
         [Parameter(mandatory=$true)][string] $AppSearchString
       )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
       {
         return $true
       }
     Else
       {
         return $false
       }

  }

################################################
#### variable section                       ####
################################################
$UninstallApp = Get-CimInstance -ClassName Win32_Product | Where-Object {$_.Name -like "Dell*Monitor*"}
$AppSearch = "%Dell%Monitor%" #Parameter to search in registry
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
$SoftwareName = "Dell Command | Monitor"

################################################
#### program section                        ####
################################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

##############################
# uninstall Software         #
##############################
$Argument = "/x "+ $UninstallApp.PackageCache + " /qn"
Start-Process -FilePath msiexec.exe -ArgumentList "$Argument" -Wait

##############################
# uninstall success check    #
##############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -eq $true)
  {

     Write-Host "uninstall is unsuccessful" -BackgroundColor Red

     $UninstallData = [PSCustomObject]@{
                              Software = $SoftwareName
                              Version = $Program_current.Version
                              Uninstall = $false
                            } | ConvertTo-Json

     Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


  }
Else
  {

     Write-Host "uninstall is successful" -BackgroundColor Green
```

```
    $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = $Program_current.Version
                                Uninstall = $true
                               } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

}
```

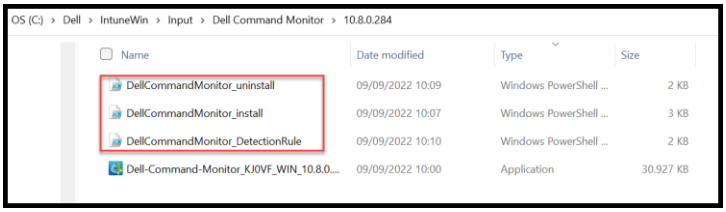
Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

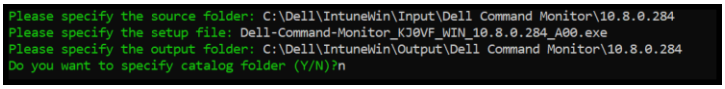
```
##############################################################################################
# Program with target Version
##############################################################################################
$ProgramVersion_target = '10.8.0.284' # need to be the same like the exe file
$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Monitor%'" | Select-Object -ExpandProperty
Version

if($ProgramVersion_current -eq $ProgramVersion_target)
   {
   Write-Host "Found it!"
   }
```

Please, copy these files in the same folder as your EXE Installer File.

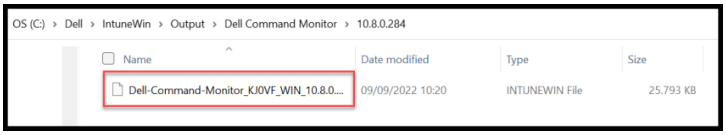


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.



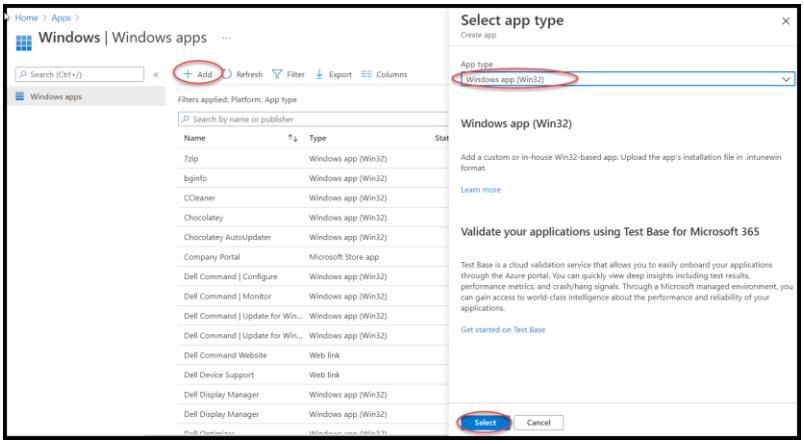
Import and Deployment settings Dell Command | Monitor for Intune

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

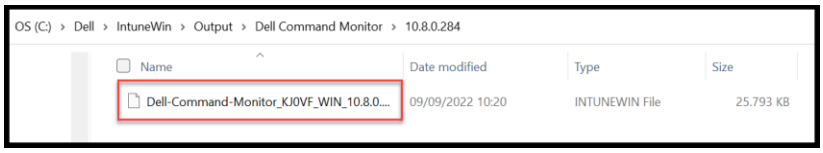


Section ‘App information’

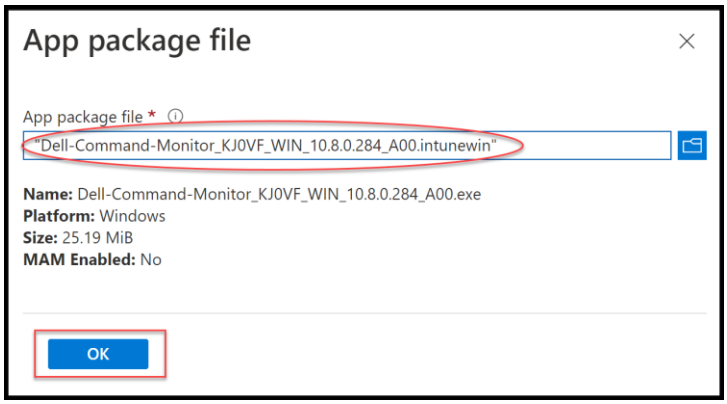
Click ‘Select app package file’

Click ‘Folder’

Select ‘Dell-Command-Monitor_KJ0VF_WIN_10.8.0.284_A00.intunewin

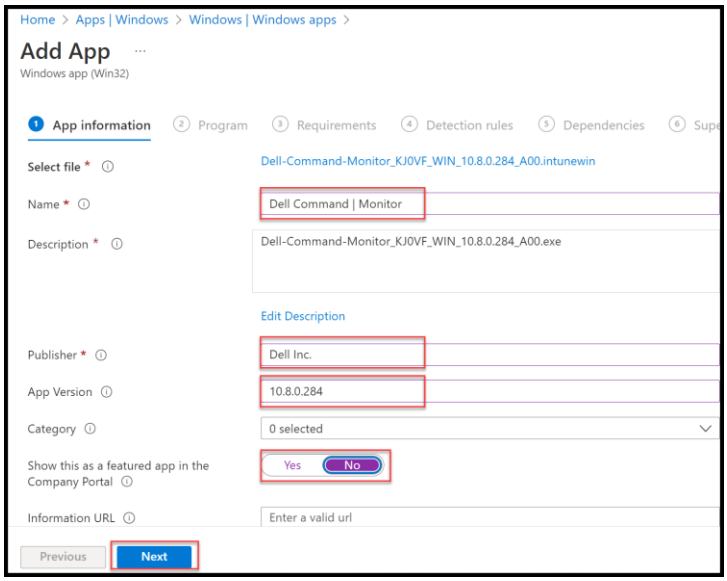


Click ‘OK’



Field	Value
Name	Dell Command | Monitor
Publisher	Dell Inc.
App Version	10.8.0.284 **Note:** Use version of the Dell Command | Monitor
Show this as a featured app in the Company Portal	No Note: This App has no User UI, and it is for Hardware Management only.

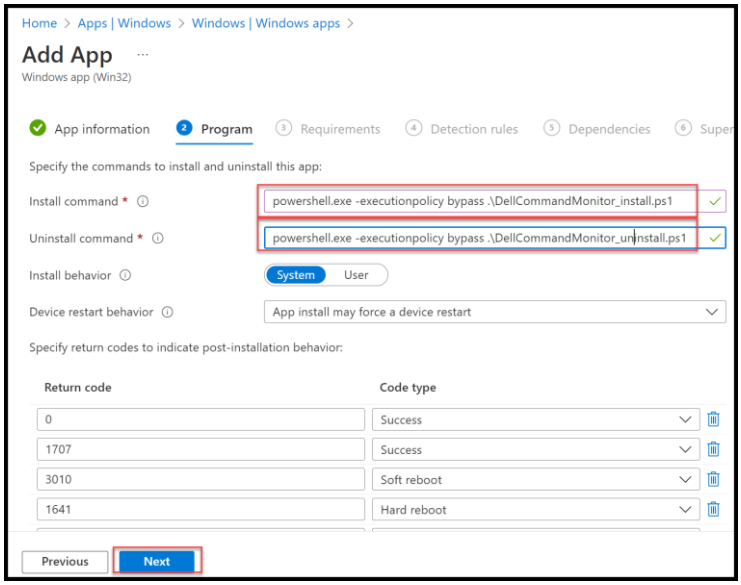
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\DellCommandMonitor_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\DellCommandMonitor_uninstall.ps1

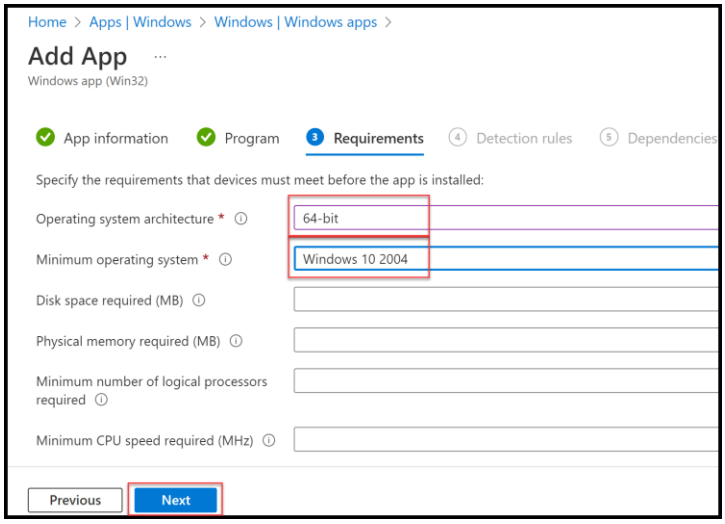
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

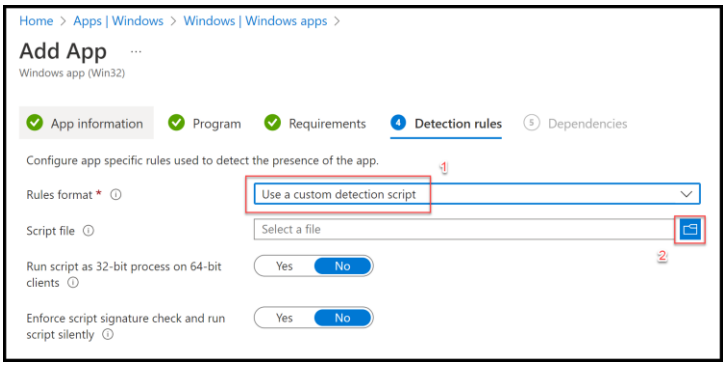
Click ‘Next’



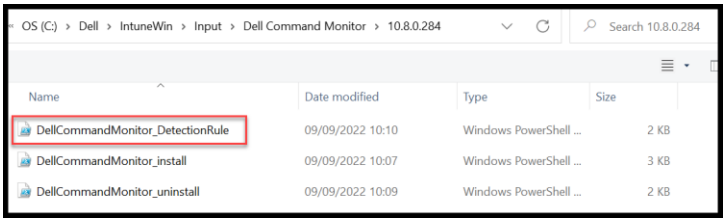
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

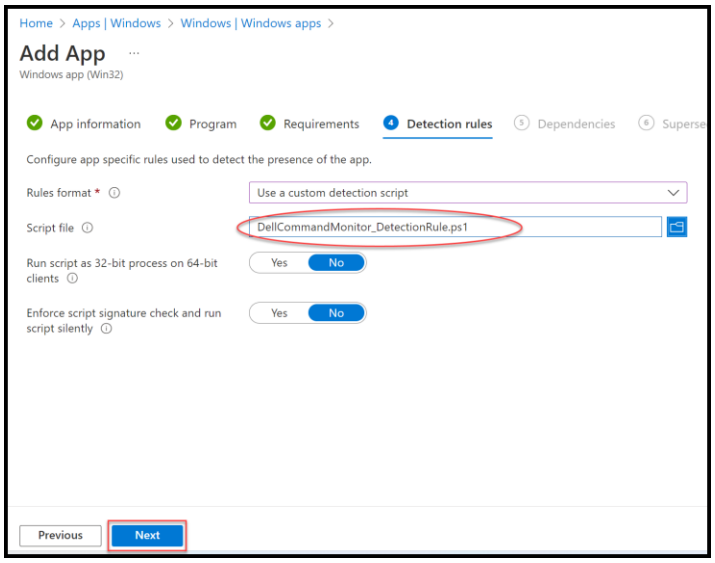
Click ‘Folder’



Select ‘DellCommandMonitor_DetectionRule.ps1’



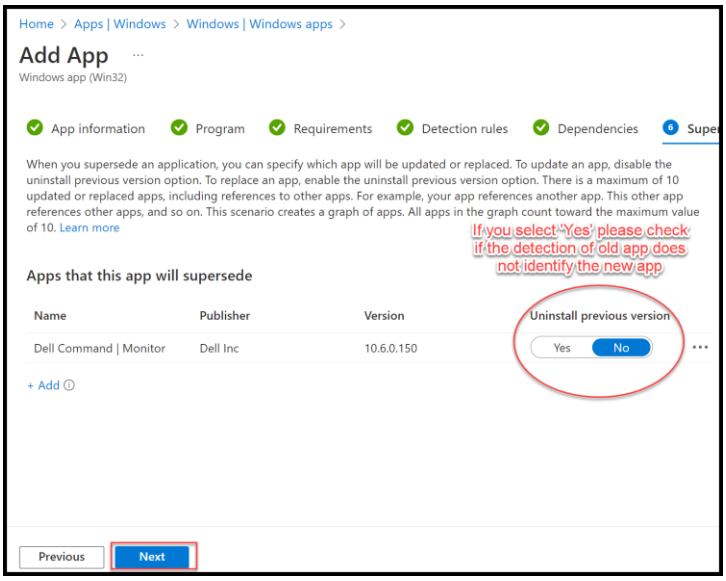
Click ‘Next’



Section ‘Dependencies’

No changes

Section ‘Supersedence’



No changes

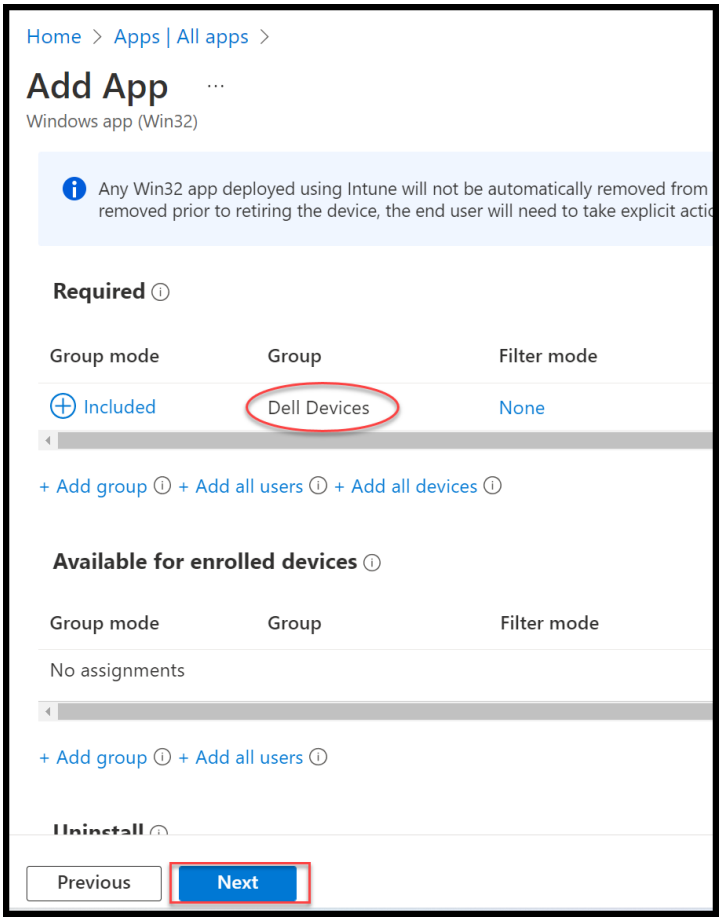
Note: You can also uninstall old software via Supersede, but make sure that the detection of the old application does not also detect the new one, otherwise you will create an installation loop.

Section ‘Assignments’

The Dell Command | Monitor supports only Dell (Latitude, Optiplex, Precision and mobile XPS) it makes sense to have da dynamic group which only incl. these systems.

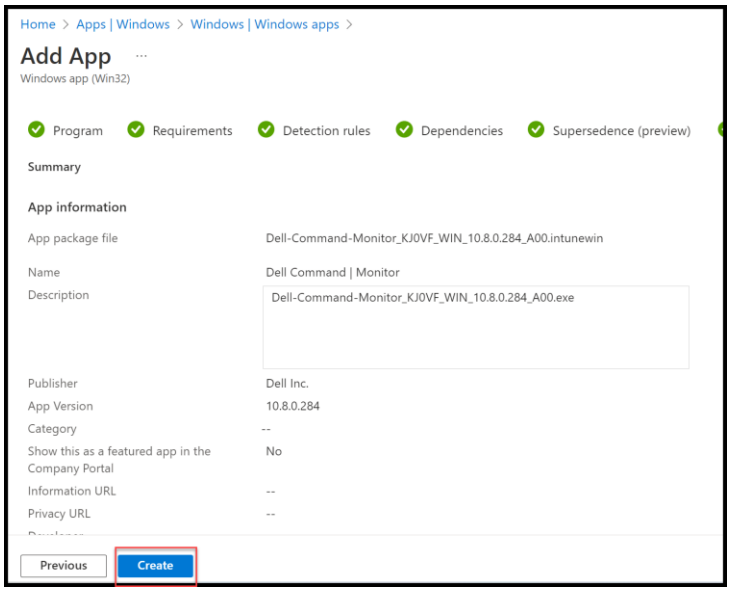
Option	Value
Required	Add group ‘Dell Devices’
Available for enrolled devices	
Uninstall	

Click ‘Next’

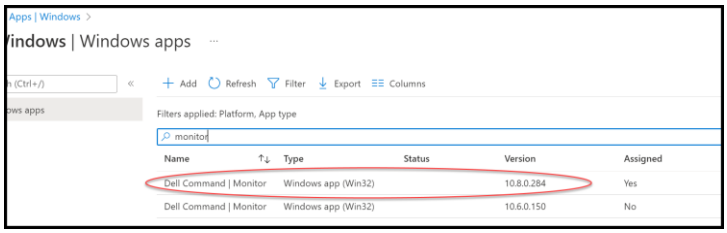


The app is now finished

Click ‘Create’



Ready to work.



Dell Command | Configure

Introduction

Dell Command | Configure is a packaged software application that provides configuration capability to business client platforms.

This product consists of a Command Line Interface (CLI) and Graphical User Interface (GUI) to configure various BIOS features. Dell Command | Configure supports following Windows and Linux operating systems: Windows 10, Windows Pre-installation Environment (Windows PE), Red Hat Enterprise Linux 7, Red Hat Enterprise Linux 8, Ubuntu Desktop 16.04, Ubuntu Desktop18.04, Ubuntu Server 18.04 and Ubuntu Desktop 20.04.

Note: Dell Command | Configure is only used by administrators and is usually not installed on all devices. We have only included them in this guide for the sake of completeness.

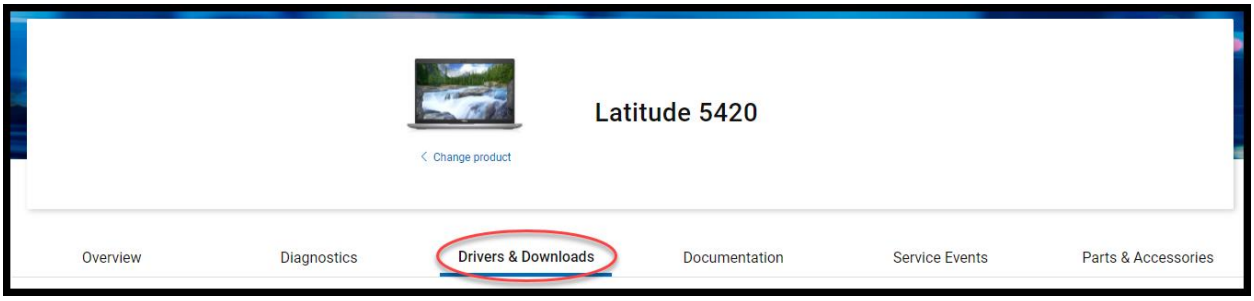
Dell Command | Configure Command Line Interface Reference Guide
https://www.dell.com/support/home/en-us/product-support/product/command-configure/docs

Prepare Dell Command | Configure for Intune

Download the newest Version of Dell Command | Update from our website.

https://www.dell.com/support/home/en-us

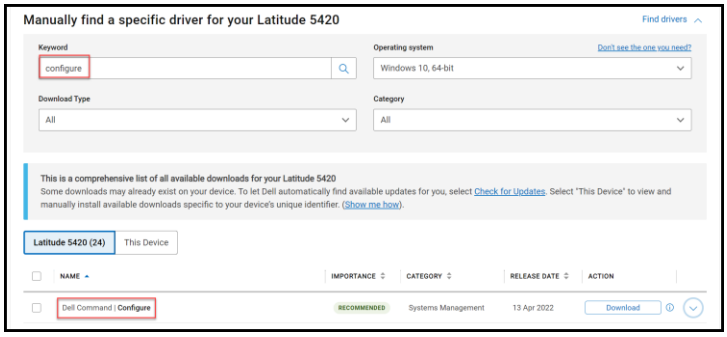
Note: Please select a device platform like Latitude 5420 and move to section ‘Drivers & Downloads’



Choose Manually to find a specific driver

Field	Value
Keyword	Configure

Find ‘Dell Command | Configure’ and download the installer file.



If you have downloaded the file from https://www.dell.com/support, copy file to your software repository for the next step.

Scripts for Install, Uninstall and Detection

It is possible to use the native file for installation. In this document we are using PowerShell scripts to cover different scenarios of Install new, Update, and uninstall for a later automation of uploading applications by API.

All script could be download on Github Repository:
https://github.com/svenriebedell/Dell-Tools-Intune-Install

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
##############################################
#### Function section                     ####
##############################################

function Get-installedcheck
  {

     param
        (
          [Parameter(mandatory=$true)][string] $AppSearchString
        )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
        {
          return $true
        }
     Else
        {
          return $false
        }

  }

##############################################
#### variable section                     ####
##############################################
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
$AppSearch = "%Dell%Configure%" #Parameter to search in registry
$UninstallApp = Get-CimInstance -ClassName Win32_Product | Where-Object {$_.Name -like "Dell*Command*Configure"}
$SoftwareName = "Dell Command | Configure"
[Version]$ProgramVersion_current = $UninstallApp.Version

##############################################
#### program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#####################################################################
#Checking if older Version is installed and uninstall this Version  #
#####################################################################

If ($null -ne $ProgramVersion_current)
  {

  if ($ProgramVersion_target -gt $ProgramVersion_current)
     {
        ##############################
        # uninstall Software old     #
        ##############################
        $Argument = "/x "+ $UninstallApp.PackageCache + " /qn"
        Start-Process -FilePath msiexec.exe -ArgumentList "$Argument" -Wait


        ##############################
        # uninstall success check    #
        ##############################
        $UninstallResult = Get-installedcheck -AppSearchString $AppSearch

        If ($UninstallResult -eq $true)
           {

              Write-Host "uninstall is unsuccessful" -BackgroundColor Red
```

```
            $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $false
                            } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


          }
        Else
          {

            Write-Host "uninstall is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $true
                            } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

          }


      }

   Else
      {
        Write-Host "same version is installed"

        $UninstallData = [PSCustomObject]@{
                            Software = $SoftwareName
                            Version = ($ProgramVersion_target).ToString()
                            Install = $false
                            Reason = "same version is installed"
                        } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData



        Exit 0
      }
   }


#####################################################################
#Install new Software                                               #
#####################################################################

Start-Process -FilePath "$ProgramPath" -ArgumentList "/s" -Wait

############################
# install success check    #
############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -ne $true)
   {

      Write-Host "install is unsuccessful" -BackgroundColor Red

      $UninstallData = [PSCustomObject]@{
                            Software = $SoftwareName
                            Version = ($ProgramVersion_target).ToString()
                            Install = $false
                            Reason = "Installation failed"
                        } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

   }
Else
   {
```

```
    [Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'" | Select-Object -
ExpandProperty Version

    If ($ProgramVersion_current -ge $ProgramVersion_target)
       {

         Write-Host "install is successful" -BackgroundColor Green

         $UninstallData = [PSCustomObject]@{
                                  Software = $SoftwareName
                                  Version = ($ProgramVersion_target).ToString()
                                  Install = $true
                                  Reason = "Update/Install/Newer Version"
                                } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData

       }
    Else
       {


        Write-Host "install is unsuccessful" -BackgroundColor red


        $UninstallData = [PSCustomObject]@{
                                  Software = $SoftwareName
                                  Version = ($ProgramVersion_target).ToString()
                                  Install = $false
                                  Reason = "Older Version installed $ProgramVersion_current"
                                } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData


       }

  }
```

Uninstall Script

The script starts the uninstalling of application.

```
################################################
#### Function section                       ####
################################################

function Get-installedcheck
  {

     param
       (
         [Parameter(mandatory=$true)][string] $AppSearchString
       )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
       {
         return $true
       }
     Else
       {
         return $false
       }

  }

################################################
#### variable section                       ####
################################################
$UninstallApp = Get-CimInstance -ClassName Win32_Product | Where-Object {$_.Name -like "Dell*Command*Configure"}
$AppSearch = "%Dell%Configure%" #Parameter to search in registry
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
$SoftwareName = "Dell Command | Configure"

################################################
#### program section                        ####
################################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#############################
# uninstall Software        #
#############################
$Argument = "/x "+ $UninstallApp.PackageCache + " /qn"
Start-Process -FilePath msiexec.exe -ArgumentList "$Argument" -Wait

#############################
# uninstall success check   #
#############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -eq $true)
  {

     Write-Host "uninstall is unsuccessful" -BackgroundColor Red

     $UninstallData = [PSCustomObject]@{
                              Software = $SoftwareName
                              Version = $Program_current.Version
                              Uninstall = $false
                            } | ConvertTo-Json

     Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


  }
Else
  {

     Write-Host "uninstall is successful" -BackgroundColor Green
```

```
    $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = $Program_current.Version
                                Uninstall = $true
                               } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

}
```

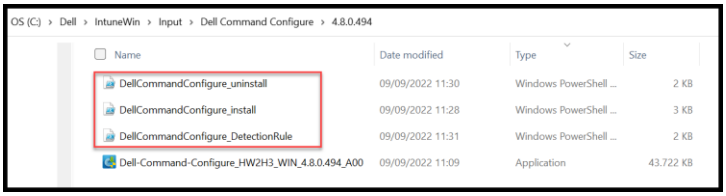
Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

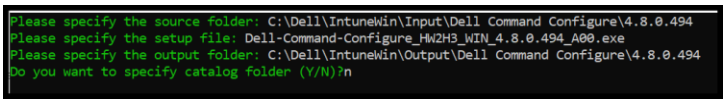
```
################################################################################################
# Program with target Version
################################################################################################
$ProgramVersion_target = '4.7.0.433' # need to be the same like the exe file
$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Configure%'" | Select-Object -ExpandProperty
Version

if($ProgramVersion_current -eq $ProgramVersion_target)
  {
    Write-Host "Found it!"
  }
```

Please, copy these files in the same folder as your EXE Installer File.

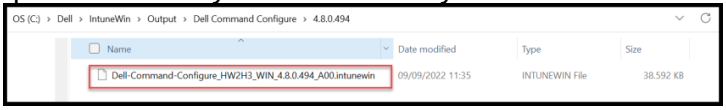


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.



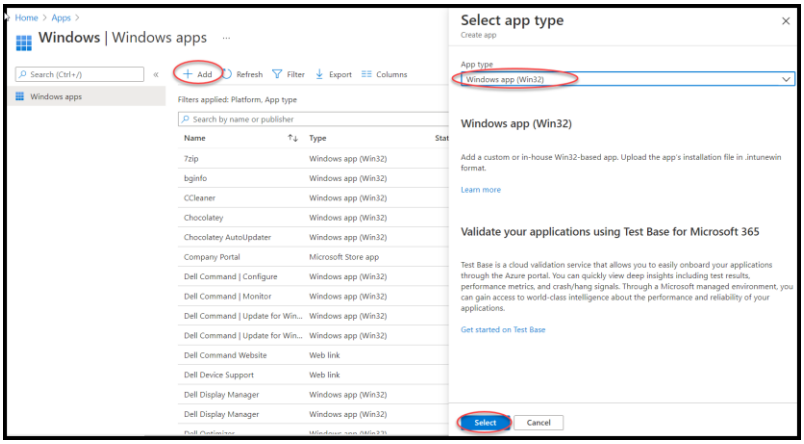
Import and Deployment settings Dell Command | Configure for Intune

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

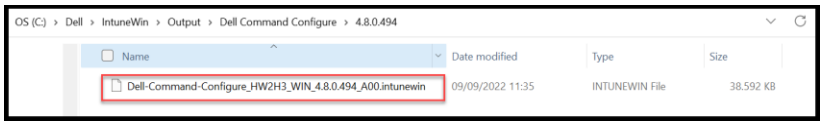


Section ‘App information’

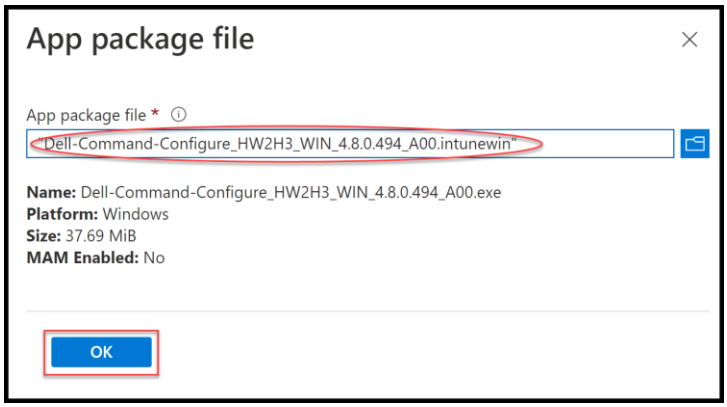
Click ‘Select app package file’

Click ‘Folder’

Select ‘Dell-Command-Configure_HW2H3_WIN_4.8.0.494_A00.intunewin’

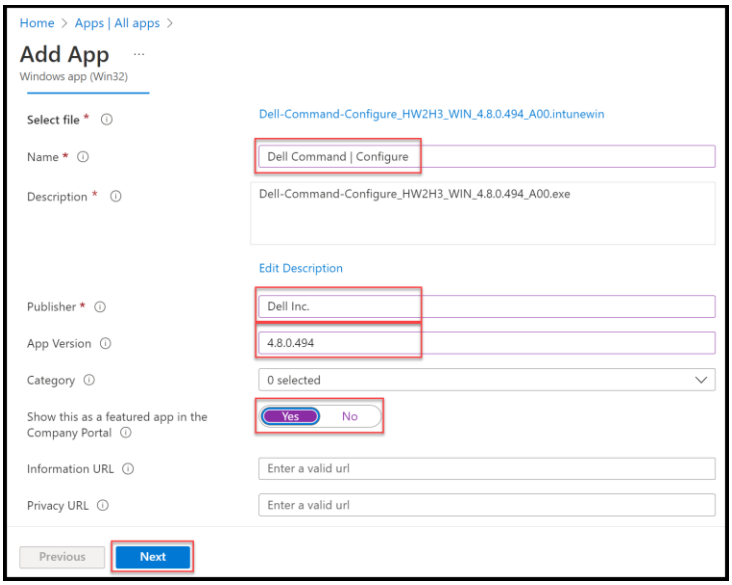


Click ‘OK’



Field	Value
Name	Dell Command | Configure
Publisher	Dell Inc.
App Version	4.8.0.494 **Note:** Use version of the Dell Command | Configure
Show this as a featured app in the Company Portal	Yes, but restricted to Device Admins Note: This App is for Admins only

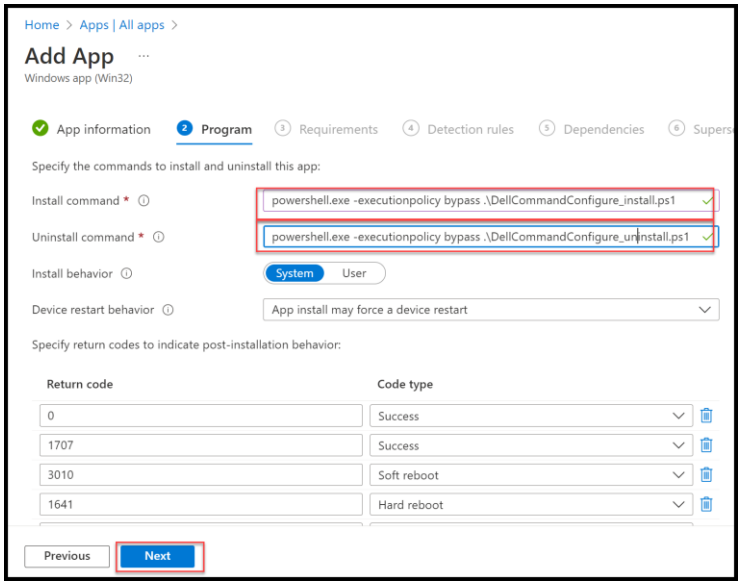
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\DellCommandConfigure_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\DellCommandConfigure_uninstall.ps1

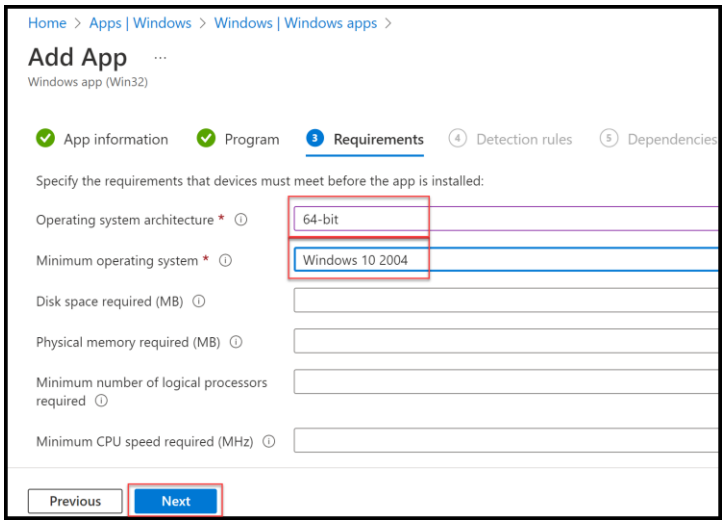
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

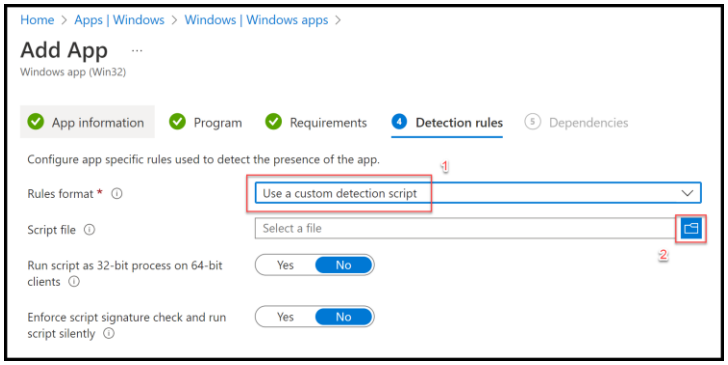
Click ‘Next’



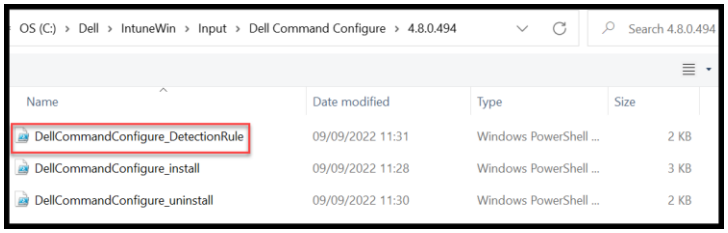
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

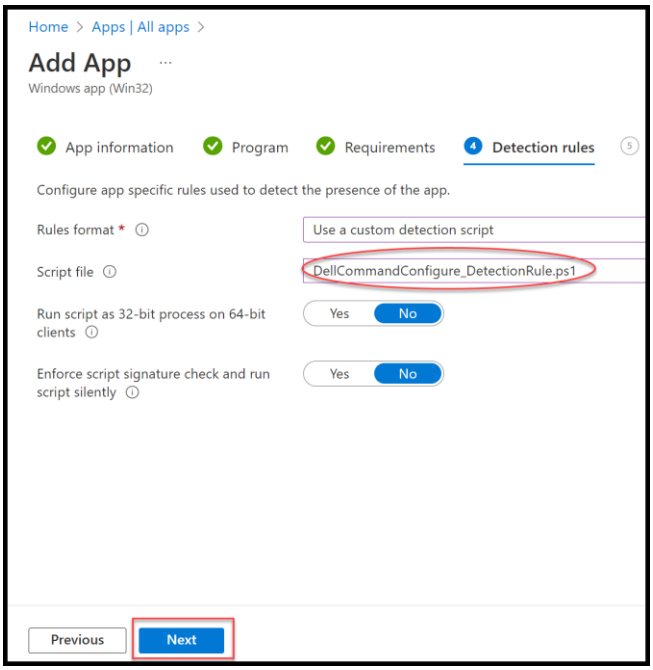
Click ‘Folder’



Select ‘DellCommandConfigure_DetectionRule.ps1’



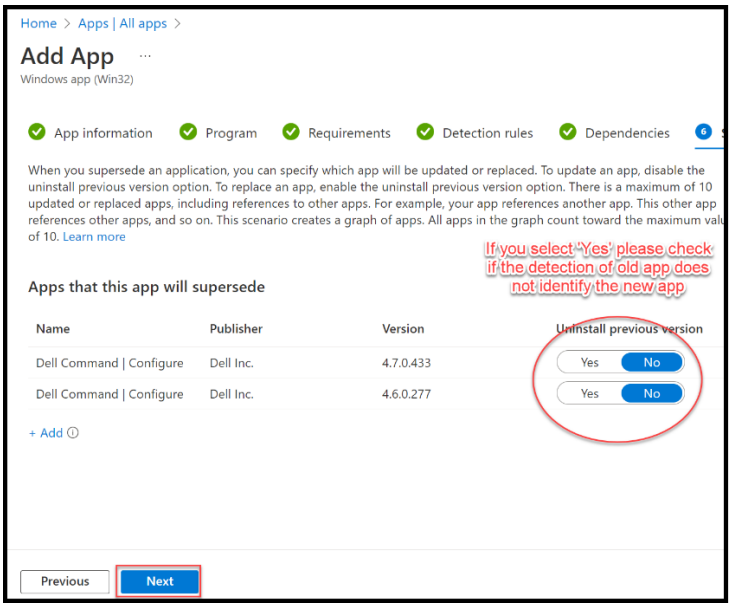
Click ‘Next’



Section ‘Dependencies’

No changes

Section ‘Supersedence’



No changes

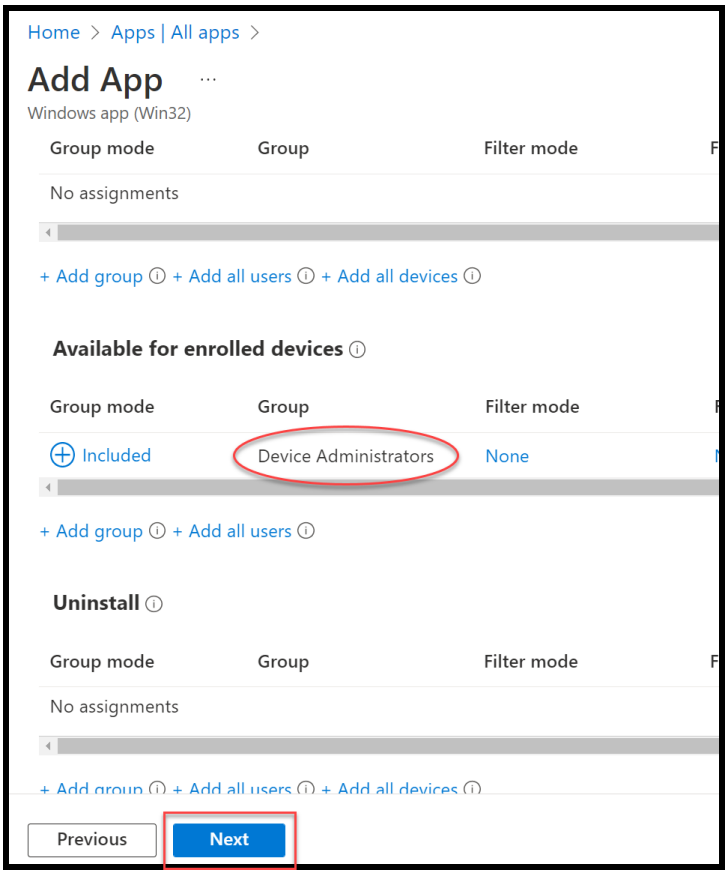
Note: You can also uninstall old software via Supersede, but make sure that the detection of the old application does not also detect the new one, otherwise you will create an installation loop.

Section ‘Assignments’

The Dell Command | Configure supports only Dell (Latitude, Optiplex, Precision and mobile XPS) it makes sense to have da dynamic group which only incl. these systems. Normally this Application is for Administrators only, we recommend using this Applications only on Administrator Devices if needed.

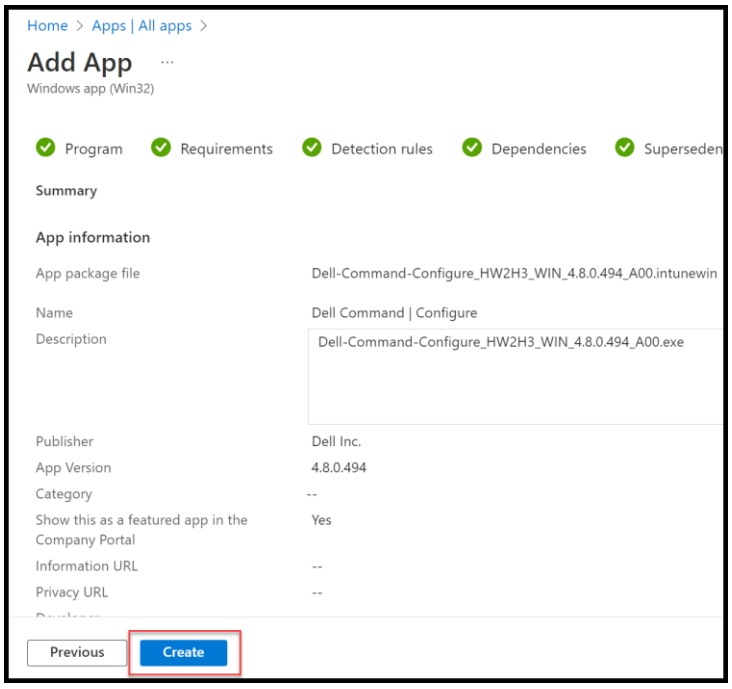
Option	Value
Required	
Available for enrolled devices	Add Group ‘Device Administrators’
Uninstall	

Click ‘Next’

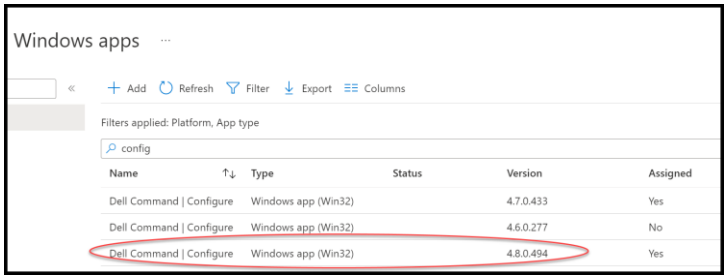

Home > Apps | All apps >
Add App
Windows app (Win32)
Group mode
Group
Filter mode
No assignments
+ Add group + Add all users + Add all devices
Available for enrolled devices
Group mode
Group
Filter mode
Included
Device Administrators
None
+ Add group + Add all users
Uninstall
Group mode
Group
Filter mode
No assignments
Previous
Next

The app is now finished

Click ‘Create’



Ready to work.



Dell Display Manager

Introduction

Dell Display Manager enhances everyday productivity through comprehensive management tools giving you best front of screen experience, efficient display management and easy, effortless multitasking.

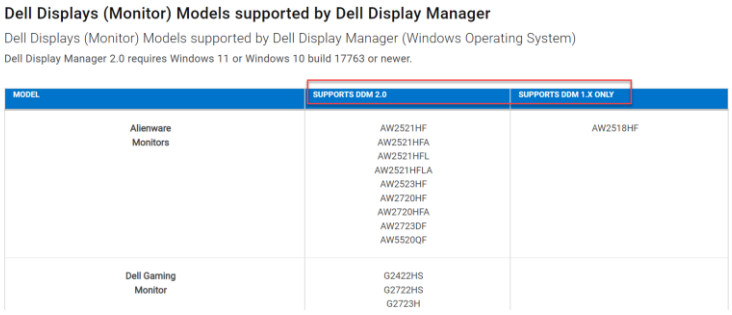
With an improved Dell Display Manager, the ease of access and usability is further enhanced for the user. IT Managers will now be able to manage and control monitors remotely, improving overall productivity.

Knowledge Base Article: What is Dell Display Manager?
https://www.dell.com/support/kbdoc/de-de/000060112/what-is-dell-display-manager?lang=en

Prepare Dell Display Manager for Intune

Please check in advance which version or versions you need as the two Dell Display Manager versions V1.x and V2.x support different monitor models.

https://www.dell.com/support/kbdoc/de-ch/000060112/what-is-dell-display-manager?lang=en#models



Dell Displays (Monitor) Models supported by Dell Display Manager

Dell Displays (Monitor) Models supported by Dell Display Manager (Windows Operating System)

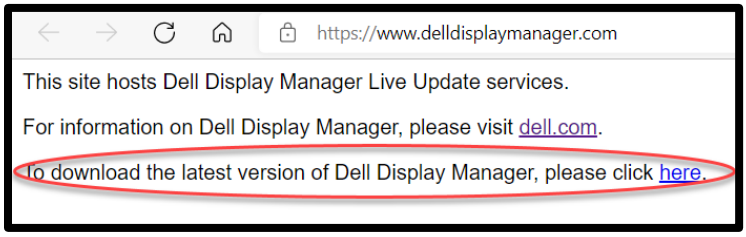
Dell Display Manager 2.0 requires Windows 11 or Windows 10 build 17763 or newer.

MODEL	SUPPORTS DDM 2.0	SUPPORTS DDM 1.X ONLY
Alienware Monitors	AW2521HF AW2521HFA AW2521HFL AW2521HFLA AW2523HF AW2720HF AW2720HFA AW2723DF AW5520QF	AW2518HF
Dell Gaming Monitor	G2422HS G2722HS G2723H	

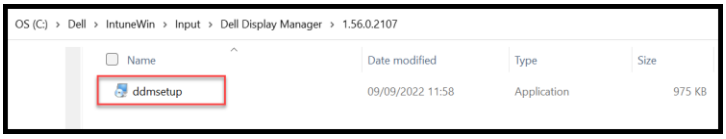
Download Dell Display Manager V1.x

Download the newest Version of Dell Display Manager from our website.

https://www.delldisplaymanager.com/



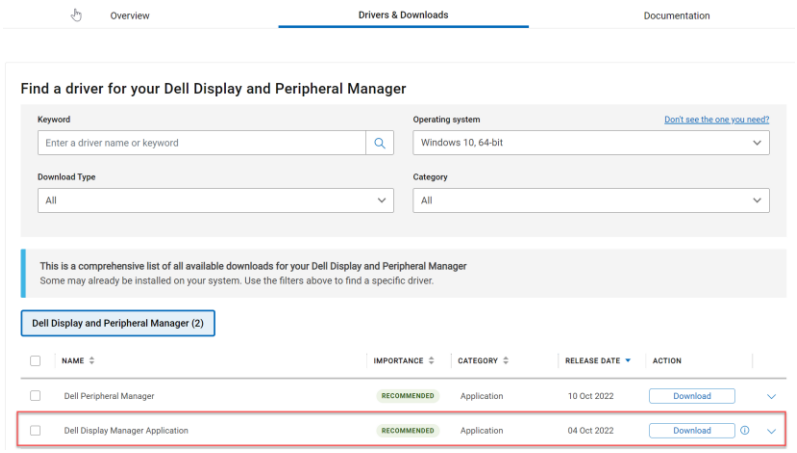
If you have downloaded the file from https://www.delldisplaymanager.com/, copy file to your software repository for the next step.



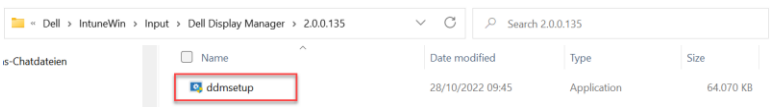
Download Dell Display Manager V2.x

Download the newest Version of Dell Display Manager from our website.

https://www.dell.com/support/home/en-us/product-support/product/dell-display-peripheral-manager/drivers



If you have downloaded the file from https://www.delldisplaymanager.com/, copy file to your software repository for the next step.



Scripts for Install, Uninstall and Detection

It is possible to use the native file for installation. In this document we are using PowerShell scripts to cover different scenarios of Install new, Update, and uninstall for a later automation of uploading applications by API.

All script could be download on Github Repository:
https://github.com/svenriebedell/Dell-Tools-Intune-Install

Script set for Dell Display Manager V1.x

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
##############################################
#### Function section                     ####
##############################################

function Get-installedcheck
  {

    param
      (
        [Parameter(mandatory=$true)][string] $AppSearchString
      )


    $AppCheck = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-
Object {$_.DisplayName -match "$AppSearchString" }


    If ($null -ne $AppCheck)
      {
        return $true
      }
    Else
      {
        return $false
      }

  }

##############################################
#### variable section                     ####
##############################################
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
$AppSearch = "Dell Display Manager" #Parameter to search in registry
$Program_current = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty |
Where-Object {$_.DisplayName -match "$AppSearch" }
[Version]$ProgramVersion_current = $Program_current.DisplayVersion
$ApplicationID_current = $Program_current.QuietUninstallString
$SoftwareName = $Program_current.DisplayName + " 1"

##############################################
#### program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#####################################################################
#Checking if older Version is installed and uninstall this Version  #
#####################################################################

If ($null -ne $ProgramVersion_current)
  {


  if ($ProgramVersion_target -gt $ProgramVersion_current)
    {

      $IDProcess = Get-Process | Where-Object {$_.ProcessName -like 'ddm'} | Select-Object -ExpandProperty ID
      Stop-Process -Id $IDProcess -Force
      Start-Process cmd.exe -ArgumentList '/c',$ApplicationID_current -Wait

      Start-Sleep -Seconds 10

      ############################
      # uninstall success check  #
      ############################
      $UninstallResult = Get-installedcheck -AppSearchString $AppSearch
```

```
        If ($UninstallResult -eq $true)
           {

              Write-Host "uninstall is unsuccessful" -BackgroundColor Red

              $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = $Program_current.DisplayVersion
                                Uninstall = $false
                              } | ConvertTo-Json

              Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


           }
        Else
           {

              Write-Host "uninstall is successful" -BackgroundColor Green

              $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = $Program_current.DisplayVersion
                                Uninstall = $true
                              } | ConvertTo-Json

              Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

           }


     }

  Else
     {
        Write-Host "same version is installed"

        $UninstallData = [PSCustomObject]@{
                          Software = $SoftwareName
                          Version = ($ProgramVersion_target).ToString()
                          Install = $false
                          Reason = "same version is installed"
                        } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData



        Exit 0
     }
  }

#####################################################################
#Install new Software                                               #
#####################################################################

Start-Process -FilePath ".\ddmsetup.exe" -ArgumentList '/verysilent /noupdate'
Start-Sleep -Seconds 15
Start-Process -FilePath "C:\Program Files (x86)\Dell\Dell Display Manager\ddm.exe"

#############################
# install success check     #
#############################
$Program_current = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty |
Where-Object {$_.DisplayName -match "$AppSearch" }
$SoftwareName = $Program_current.DisplayName + " 1"
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -ne $true)
  {

     Write-Host "install is unsuccessful" -BackgroundColor Red

     $UninstallData = [PSCustomObject]@{
                       Software = $SoftwareName
                       Version = ($ProgramVersion_target).ToString()
                       Install = $false
```

```
                                Reason = "Installation failed"
                               } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

   }
Else
   {

      [Version]$ProgramVersion_current = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-
ItemProperty | Where-Object {$_.DisplayName -match "Dell Display Manager" } | Select-Object -ExpandProperty DisplayVersion

      If ($ProgramVersion_current -ge $ProgramVersion_target)
         {

            Write-Host "install is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                                        Software = $SoftwareName
                                        Version = ($ProgramVersion_target).ToString()
                                        Install = $true
                                        Reason = "Update/Install/Newer Version"
                                       } | ConvertTo-Json

           Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData

         }
      Else
         {


           Write-Host "install is unsuccessful" -BackgroundColor red


           $UninstallData = [PSCustomObject]@{
                                       Software = $SoftwareName
                                       Version = ($ProgramVersion_target).ToString()
                                       Install = $false
                                       Reason = "Older Version installed $ProgramVersion_current"
                                      } | ConvertTo-Json

           Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData


         }

   }
```

Uninstall Script

The script starts the uninstalling of application.

```
##############################################
#### Function section                     ####
##############################################

function Get-installedcheck
  {

    param
      (
        [Parameter(mandatory=$true)][string] $AppSearchString
      )


    $AppCheck = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-
Object {$_.DisplayName -match "$AppSearchString" }

    If ($null -ne $AppCheck)
      {
        return $true
      }
    Else
      {
        return $false
      }

  }

##############################################
#### variable section                     ####
##############################################
$AppSearch = "Dell Display Manager" #Parameter to search in registry
$Program_current = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty |
Where-Object {$_.DisplayName -match "$AppSearch" }
$SoftwareName = $Program_current.DisplayName
$ApplicationID_current = $Program_current.QuietUninstallString

##############################################
#### program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#####################################################################
#uninstall Software                                                 #
#####################################################################

$IDProcess = Get-Process | Where-Object {$_.ProcessName -like 'ddm'} | Select-Object -ExpandProperty ID
Stop-Process -Id $IDProcess -Force

Start-Process cmd.exe -ArgumentList '/c',$ApplicationID_current -Wait

#############################
# uninstall success check   #
#############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -eq $true)
  {

    Write-Host "uninstall is unsuccessful" -BackgroundColor Red

    $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = $Program_current.DisplayVersion
                        Uninstall = $false
                      } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


  }
```

```
Else
  {

    Write-Host "uninstall is successful" -BackgroundColor Green

    $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = $Program_current.DisplayVersion
                        Uninstall = $true
                      } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

  }
```

Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

```
################################################################################
# Program with target Version
################################################################################
$ProgramPath = "C:\Program Files (x86)\Dell\Dell Display Manager\ddm.exe"
$ProgramVersion_target = '1.56.0.2107' # need to be the same like the exe file
$ProgramVersion_current = [System.Diagnostics.FileVersionInfo]::GetVersionInfo($ProgramPath).FileVersion

if($ProgramVersion_current -eq $ProgramVersion_target)
  {
    Write-Host "Found it!"
  }
```

Script set for Dell Display Manager V2.x

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
###############################################
#### Function section                      ####
###############################################

function Get-installedcheck
  {

     param
        (

        )


     $AppCheck = Test-Path -Path 'C:\Program Files\Dell\Dell Display Manager 2\ddm.exe' #cover new folder
     If ($false -ne $AppCheck)
        {
           return $true
        }
     Else
        {
           $AppCheck = Test-Path -Path 'C:\Program Files\Dell\Dell Display Manager 2.0\ddm.exe' #cover old folder
           Write-Host "Old DDM Folder used by installation"
        }



     If ($false -ne $AppCheck)
        {
           return $true
        }
     Else
        {
           return $false
        }

  }

###############################################
#### variable section                      ####
###############################################
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
$AppSearch = "ddm.exe" #Parameter to search in registry
$SoftwareName = "Dell Display Manager 2"

###############################################
#### program section                       ####
###############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore


#####################################################################
#Checking if older Version is installed and uninstall this Version  #
#####################################################################

If ((Get-installedcheck) -eq $true )
  {
     # get version of existing installation#
     $CheckFolder = Test-Path -Path 'C:\Program Files\Dell\Dell Display Manager 2\DDM.exe'


     if ($false -eq $CheckFolder)
        {

           # get version of existing installation based old folder
```

```
            [Version]$ProgramVersion_current = (Get-ItemProperty -Path 'C:\Program Files\Dell\Dell Display Manager 2.0\DDM.exe').VersionInfo |
Select-Object -ExpandProperty ProductVersion
            $ApplicationID_current = "C:\Program Files\Dell\Dell Display Manager 2.0\Uninst.exe"

        }
      Else
        {

            # get version of existing installation based new folder
            [Version]$ProgramVersion_current = (Get-ItemProperty -Path 'C:\Program Files\Dell\Dell Display Manager 2\DDM.exe').VersionInfo | Select-
Object -ExpandProperty ProductVersion
            $ApplicationID_current = "C:\Program Files\Dell\Dell Display Manager 2\Uninst.exe"

        }

      if ($ProgramVersion_target -gt $ProgramVersion_current)
        {

            $IDProcess = Get-Process | Where-Object {$_.ProcessName -ceq 'DDM'} | Select-Object -ExpandProperty ID

            if ($null -ne $IDProcess)
              {

                  Stop-Process -Id $IDProcess -Force

              }


            Start-Process -FilePath $ApplicationID_current -ArgumentList "/S" -Wait

            Start-Sleep -Seconds 10


            ##############################
            # uninstall success check              #
            ##############################
            $UninstallResult = Get-installedcheck -AppSearchString $AppSearch

            If ($UninstallResult -eq $true)
              {

                  Write-Host "uninstall is unsuccessful" -BackgroundColor Red

                  $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = ($ProgramVersion_current).ToString()
                                    Uninstall = $false
                                  } | ConvertTo-Json

                  Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


              }
            Else
              {

                  Write-Host "uninstall is successful" -BackgroundColor Green

                  $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = ($ProgramVersion_current).ToString()
                                    Uninstall = $true
                                  } | ConvertTo-Json

                  Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

              }


        }

      Else
        {
            Write-Host "same version is installed"

            $UninstallData = [PSCustomObject]@{
                              Software = $SoftwareName
                              Version = ($ProgramVersion_target).ToString()
                              Install = $false
```

```
                    Reason = "same version is installed"
                } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData



            Exit 0
        }
    }
Else
    {
        Write-Host "No Dell Display Manager 2 was installed"
    }

#####################################################################
#Install new Software                                               #
#####################################################################
Start-Process -FilePath $ProgramPath -ArgumentList '/verysilent /NotifyUpdate="disable"'
Start-Sleep -Seconds 10

##############################
# install success check      #
##############################
$UninstallResult = Get-installedcheck

If ($UninstallResult -ne $true)
    {

        Write-Host "install is unsuccessful" -BackgroundColor Red

        $UninstallData = [PSCustomObject]@{
                            Software = $SoftwareName
                            Version = ($ProgramVersion_target).ToString()
                            Install = $false
                            Reason = "Installation failed"
                        } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

    }
Else
    {

      [Version]$ProgramVersion_current = (Get-ItemProperty -Path 'C:\Program Files\Dell\Dell Display Manager 2\DDM.exe').VersionInfo | Select-
Object -ExpandProperty ProductVersion

      If ($ProgramVersion_current -ge $ProgramVersion_target)
        {

            Write-Host "install is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_target).ToString()
                                Install = $true
                                Reason = "Update/Install/Newer Version"
                            } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData

        }
      Else
        {


            Write-Host "install is unsuccessful" -BackgroundColor red


            $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_target).ToString()
                                Install = $false
                                Reason = "Older Version installed $ProgramVersion_current"
                            } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData
```

```
        }

    }
```

Uninstall Script

The script starts the uninstalling of application.

```
##################################################
#### Function section                         ####
##################################################

function Get-installedcheck
  {

      param
        (

        )


      $AppCheck = Test-Path -Path 'C:\Program Files\Dell\Dell Display Manager 2\ddm.exe' #cover new folder
      If ($false -ne $AppCheck)
        {
          return $true
        }
      Else
        {
          $AppCheck = Test-Path -Path 'C:\Program Files\Dell\Dell Display Manager 2.0\ddm.exe' #cover old folder
          Write-Host "Old DDM Folder used by installation"
        }



      If ($false -ne $AppCheck)
        {
          return $true
        }
      Else
        {
          return $false
        }

  }

##################################################
#### variable section                         ####
##################################################
$AppSearch = "ddm.exe" #Parameter to search in registry
$SoftwareName = "Dell Display Manager 2"

##################################################
#### program section                          ####
##################################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

# get version of existing installation#
$CheckFolder = Test-Path -Path 'C:\Program Files\Dell\Dell Display Manager 2\DDM.exe'


if ($false -eq $CheckFolder)
  {

      # get version of existing installation based old folder
      [Version]$ProgramVersion_current = (Get-ItemProperty -Path 'C:\Program Files\Dell\Dell Display Manager 2.0\DDM.exe').VersionInfo | Select-
Object -ExpandProperty ProductVersion
      $ApplicationID_current = "C:\Program Files\Dell\Dell Display Manager 2.0\Uninst.exe"

  }
Else
```

```
  {

      # get version of existing installation based new folder
      [Version]$ProgramVersion_current = (Get-ItemProperty -Path 'C:\Program Files\Dell\Dell Display Manager 2\DDM.exe').VersionInfo | Select-
Object -ExpandProperty ProductVersion
      $ApplicationID_current = "C:\Program Files\Dell\Dell Display Manager 2\Uninst.exe"

  }


$IDProcess = Get-Process | Where-Object {$_.ProcessName -ceq 'DDM'} | Select-Object -ExpandProperty ID

if ($null -ne $IDProcess)
  {

      Stop-Process -Id $IDProcess -Force

  }


Start-Process -FilePath $ApplicationID_current -ArgumentList "/S" -Wait
Start-Sleep -Seconds 10


##############################
# uninstall success check              #
##############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -eq $true)
  {

      Write-Host "uninstall is unsuccessful" -BackgroundColor Red

      $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = ($ProgramVersion_current).ToString()
                                    Uninstall = $false
                                } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


  }
Else
  {

      Write-Host "uninstall is successful" -BackgroundColor Green

      $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = ($ProgramVersion_current).ToString()
                                    Uninstall = $true
                                } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

   }
```

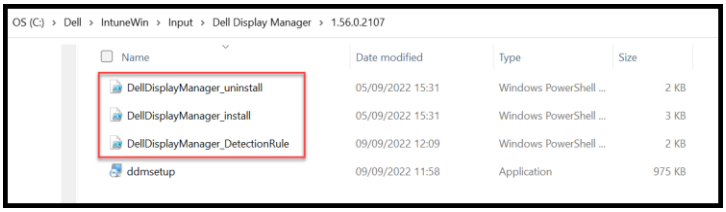
Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

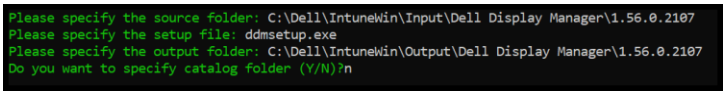
```
##################################################################################################################
# Program with target Version
##################################################################################################################
$ProgramPath = "C:\Program Files\Dell\Dell Display Manager 2\DDM.exe"
$ProgramVersion_target = '2.1.1.17'
$ProgramVersion_current = [System.Diagnostics.FileVersionInfo]::GetVersionInfo($ProgramPath).FileVersion

if($ProgramVersion_current -ge $ProgramVersion_target)
   {
      Write-Host "Found it!"
   }
```

Please, copy these files in the same folder as your EXE Installer File.

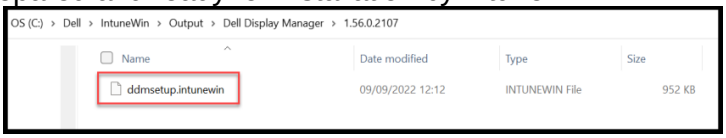


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.



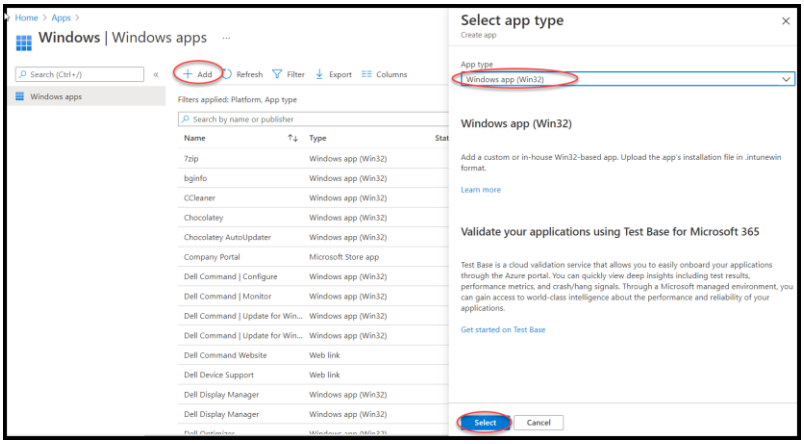
Import and Deployment settings Dell Display Manager for Intune

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

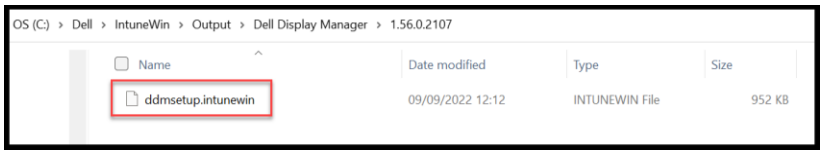


Section ‘App information’

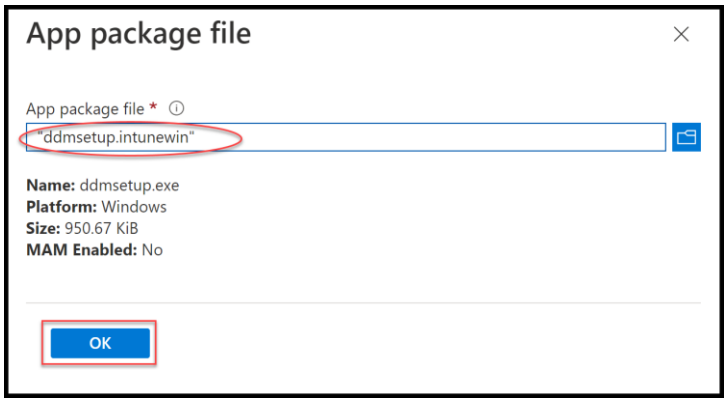
Click ‘Select app package file’

Click ‘Folder’

Select ‘ddmsetup.intunewin’

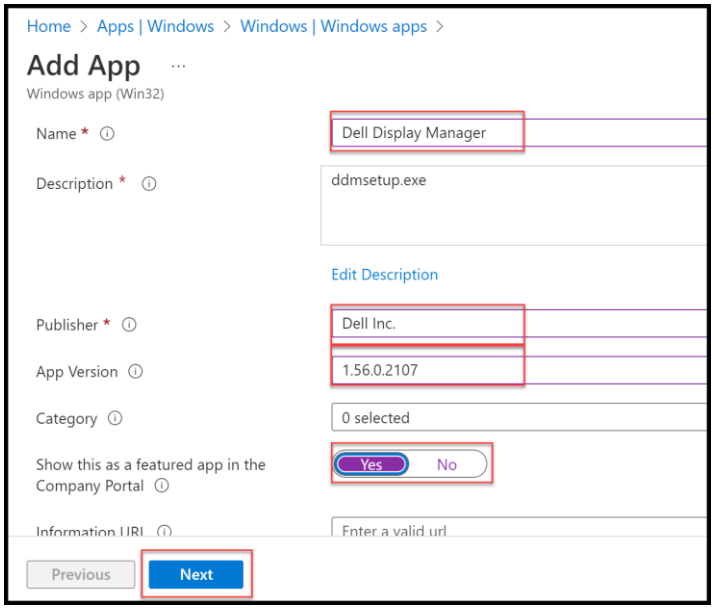


Click ‘OK’



Field	Value
Name	Dell Display Manager
Publisher	Dell Inc.
App Version	1.56.0.2107 **Note:** Use version of the Dell Display Manager
Show this as a featured app in the Company Portal	Yes

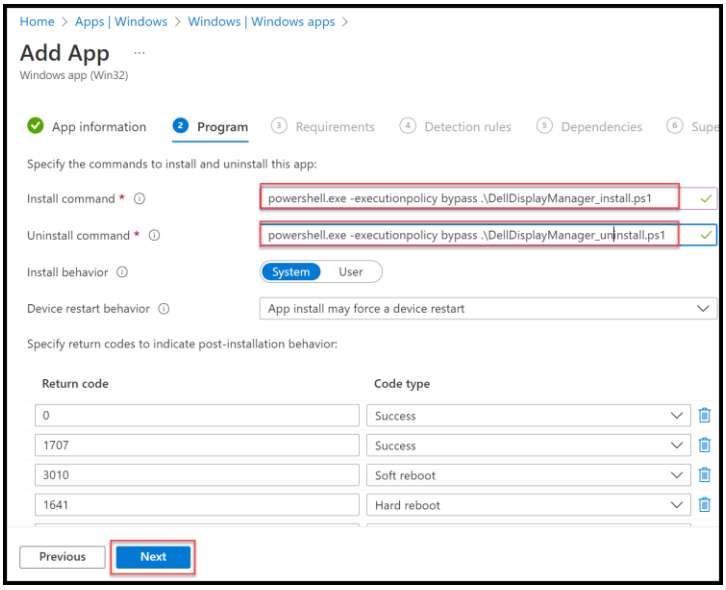
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\DellDisplayManager_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\DellDisplayManager_uninstall.ps1

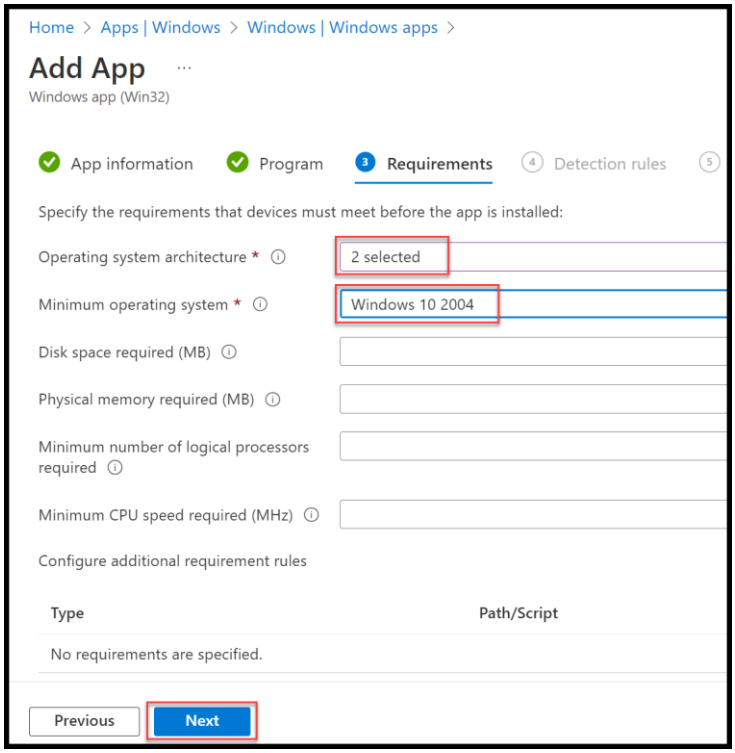
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	32/64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

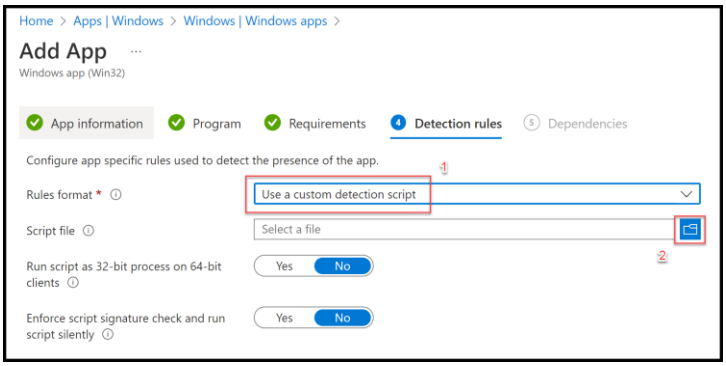
Click ‘Next’



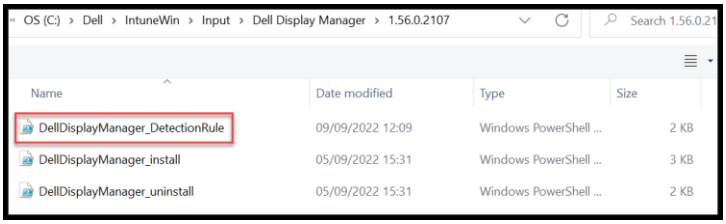
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

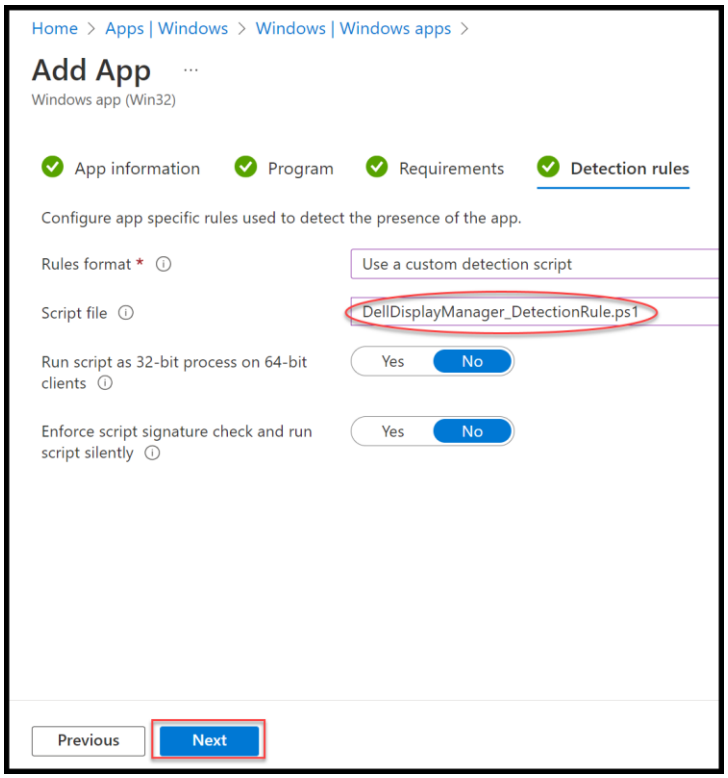
Click ‘Folder’



Select ‘DellDisplayManager_DetectionRule.ps1’



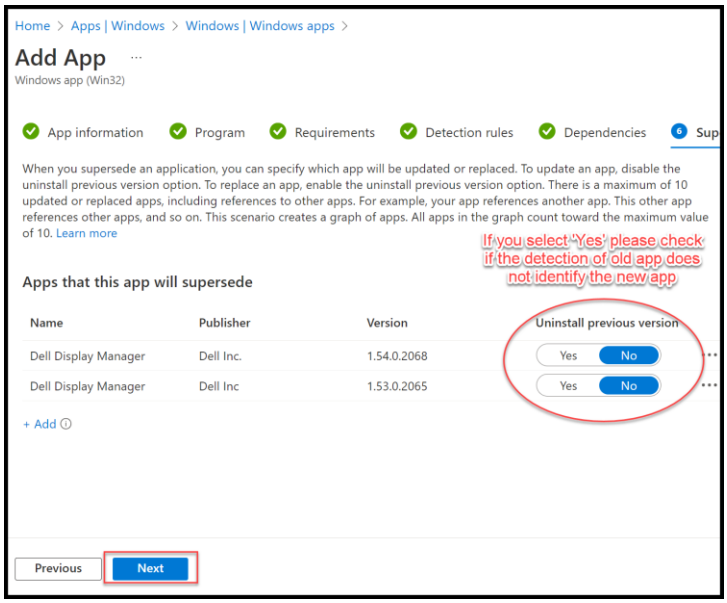
Click ‘Next’



Section ‘Dependencies’

No changes

Section ‘Supersedence’



No changes

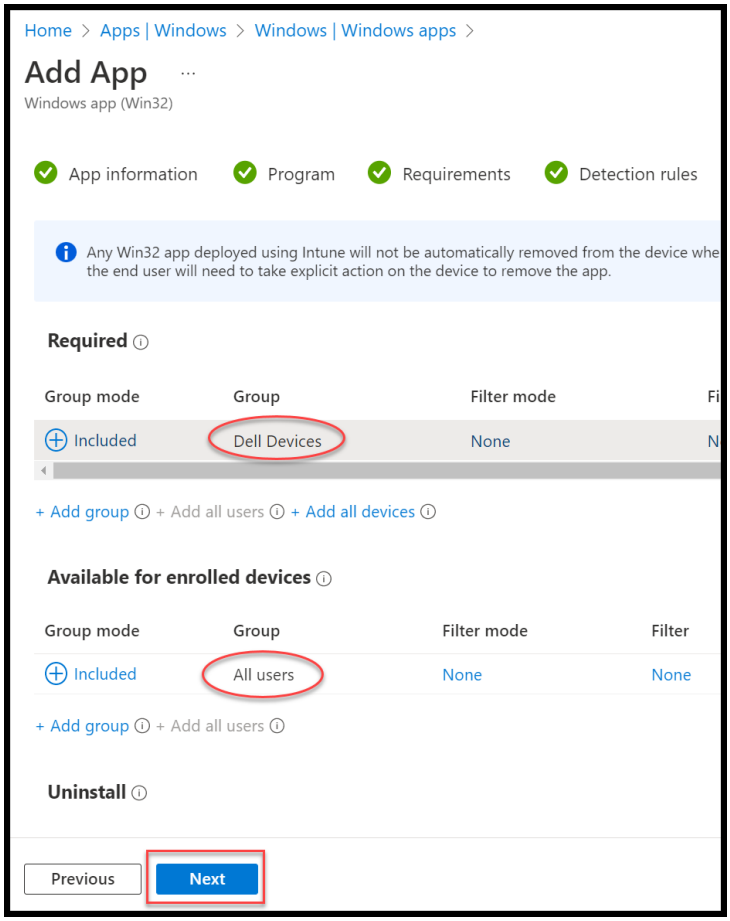
Note: You can also uninstall old software via Supersede, but make sure that the detection of the old application does not also detect the new one, otherwise you will create an installation loop.

Section ‘Assignments’

The Dell Display Manager supports only Dell Displays (Latitude, Optiplex, Precision and mobile XPS) it makes sense to have da dynamic group which only incl. these systems who have connect to a Dell Display.

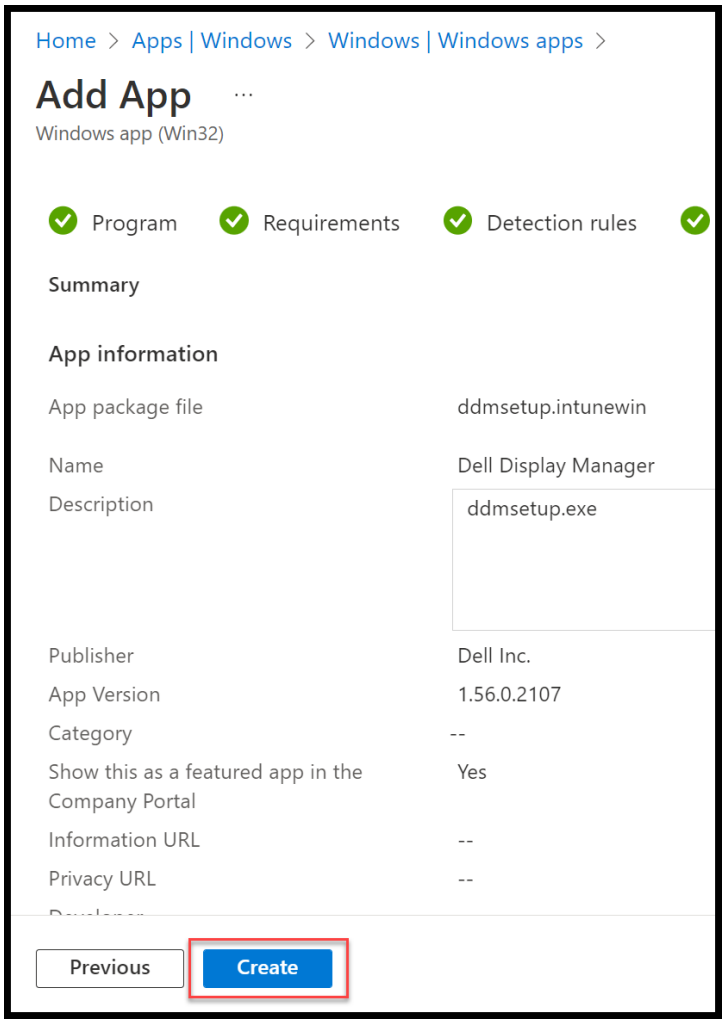
Option	Value
Required	Add Group ‘Dell Device’
Available for enrolled devices	Add Group ‘All User’
Uninstall	

Click ‘Next’

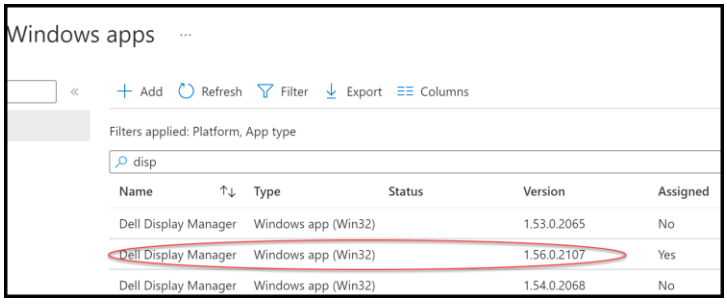


The app is now finished

Click ‘Create’



Ready to work.



Dell SupportAssist for Business PCs

Introduction

SupportAssist is a proactive and predictive technology that provides automated technical support for your Dell PCs. It enables IT administrators to manage their PC fleet from TechDirect anytime, anywhere.

When deployed, SupportAssist monitors each PC and proactively detects both hardware and software issues. Depending on your service plan, when an issue is detected, SupportAssist automatically opens a support case with technical support and sends you an email notification.

SupportAssist collects and sends the required information securely to Dell technical support. The collected information enables Dell to provide you with an enhanced, efficient, and accelerated support experience.

SupportAssist enables you to optimize your PC by removing unwanted files, optimizing network settings, tuning-up system performance, and removing viruses and malware. It also identifies driver updates available for your PC.

SupportAssist also collects telemetry, application experience, health, and security data proactively from your PCs and provides various performance insights about your PCs, based on your service plan.

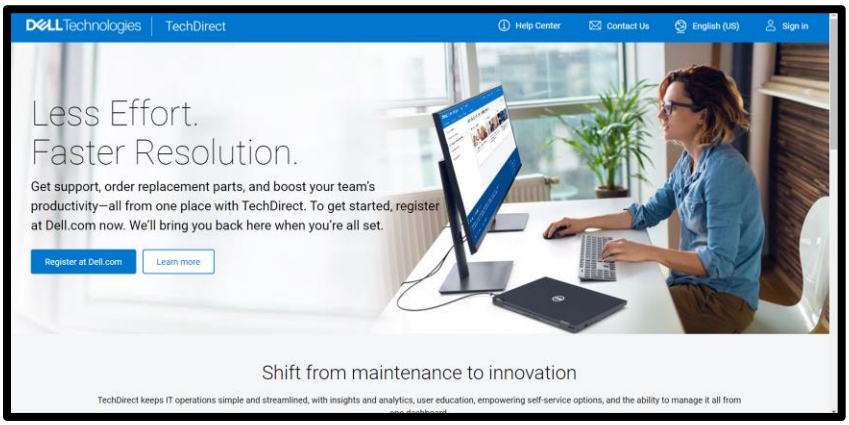
After you have deployed SupportAssist on your PCs, you can manage the PC fleet using the Connect and manage service in TechDirect.

SupportAssist for Business PCs with Windows OS Administrator Guide
https://www.dell.com/support/home/en-us/product-support/product/supportassist-business-pcs/docs

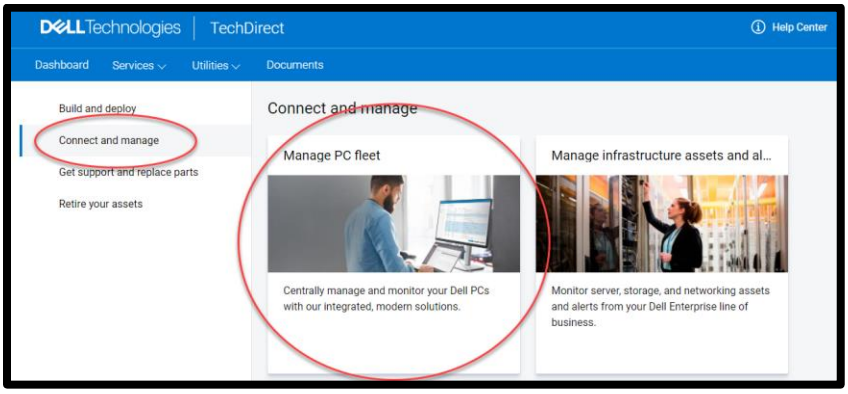
Prepare Dell SupportAssist for Business PCs for Intune

Download the newest Version of Dell SupportAssist for Business PCs from our website.

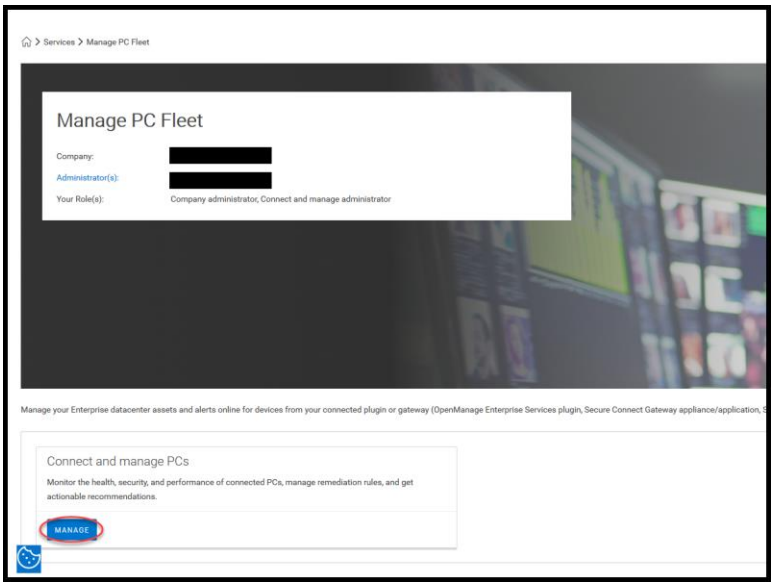
This requires a Dell TechDirect Account https://techdirect.dell.com/



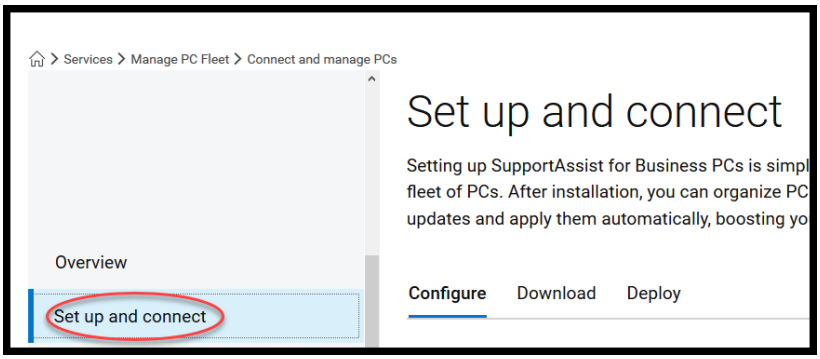
After Login move to Connect and Manage section and open Manage PC fleet.



Click ‘Manage’



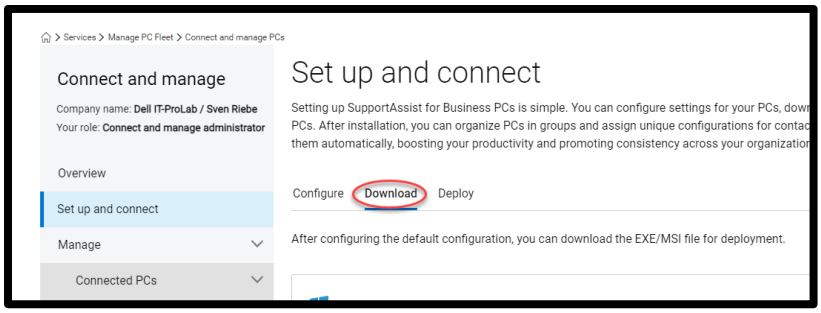
Click on Set up and connect



Configure Dell SupportAssist for Business first - please refer to the support documentation.

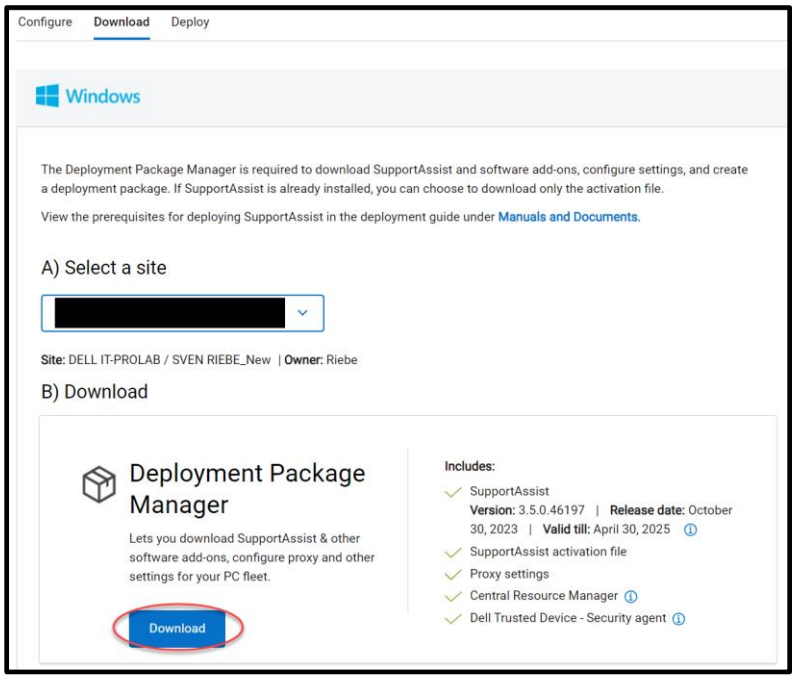
https://www.dell.com/support/home/product-support/product/supportassist-business-pcs/docs

After you have fulfilled the configure section, you can download the software.

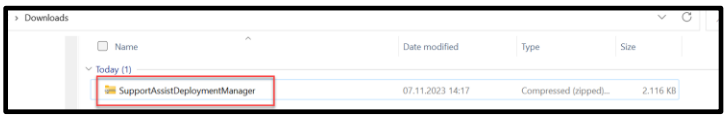


Download the Deployment Package Manager now.

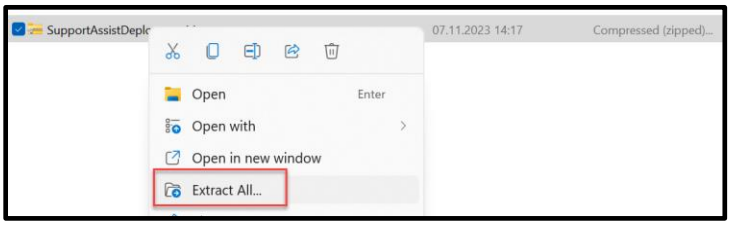
Click ‘Download’



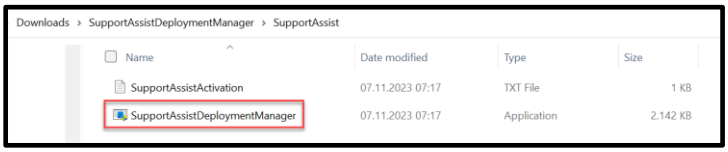
Go to your download folder and check for this file: SupportAssistDeploymentManager.zip



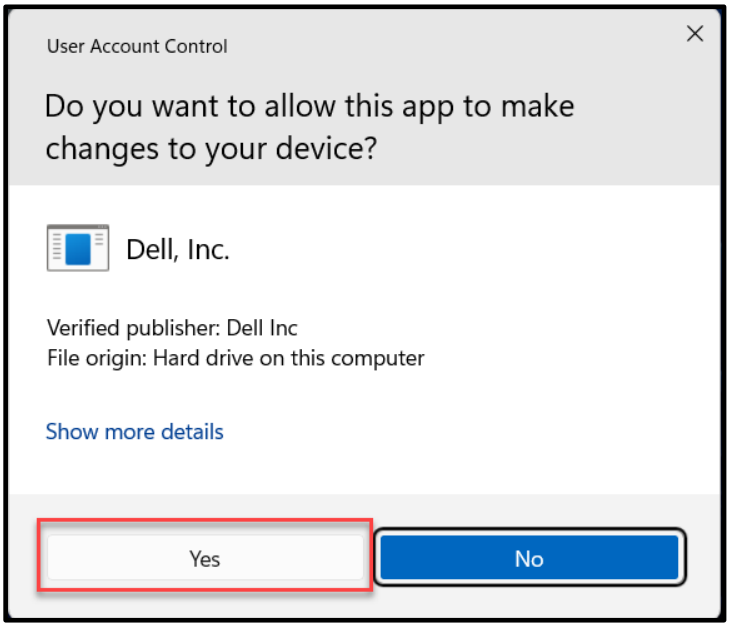
Extracting the file SupportAssistDeploymentManager.zip



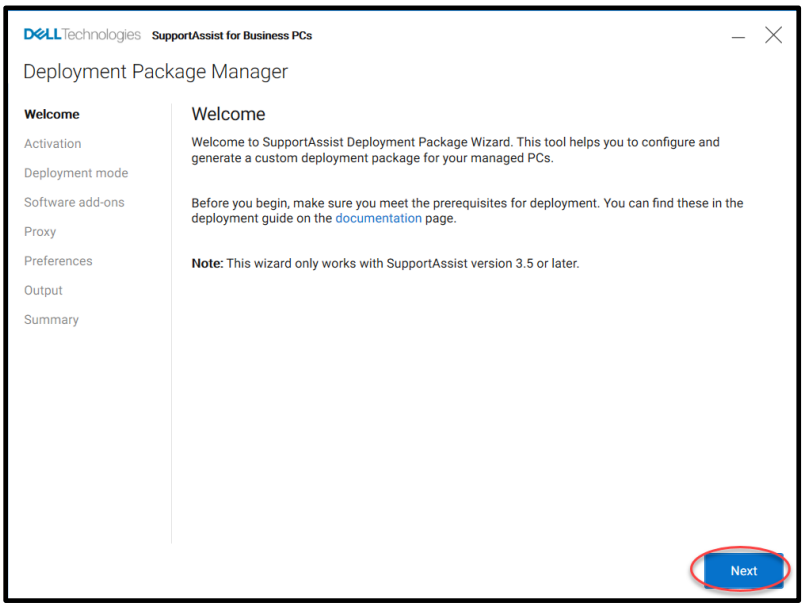
Extract the file and click this file SupportAssistDeploymentManager.exe (need administrator rights)



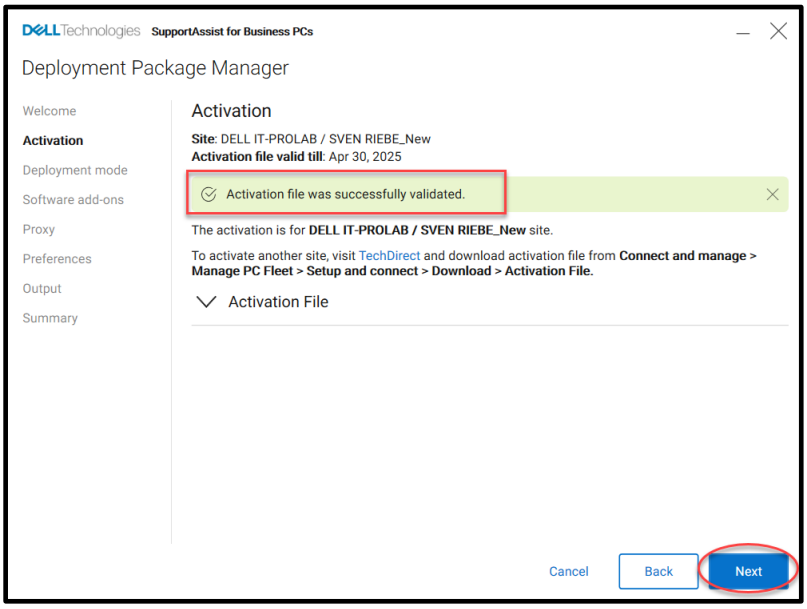
Click ‘Yes’



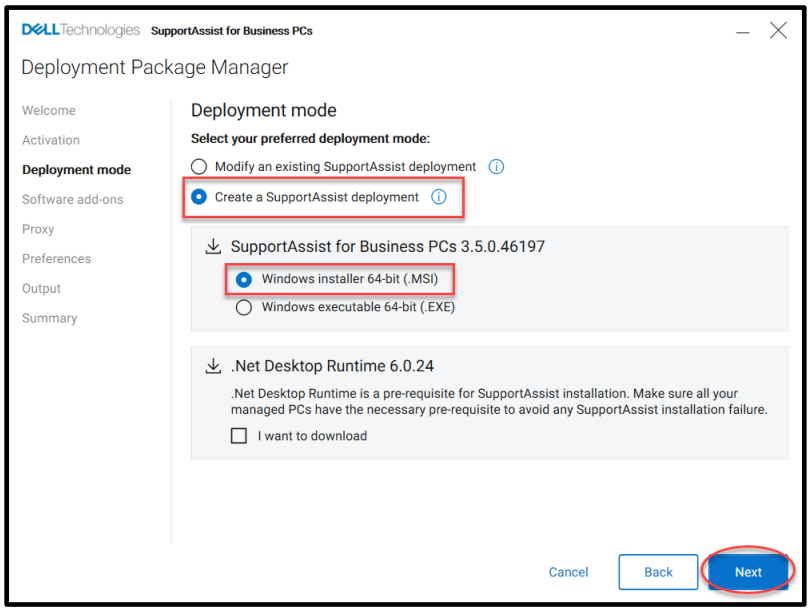
Prepare the MSI and MST for the deployment.
Click ‘Next’



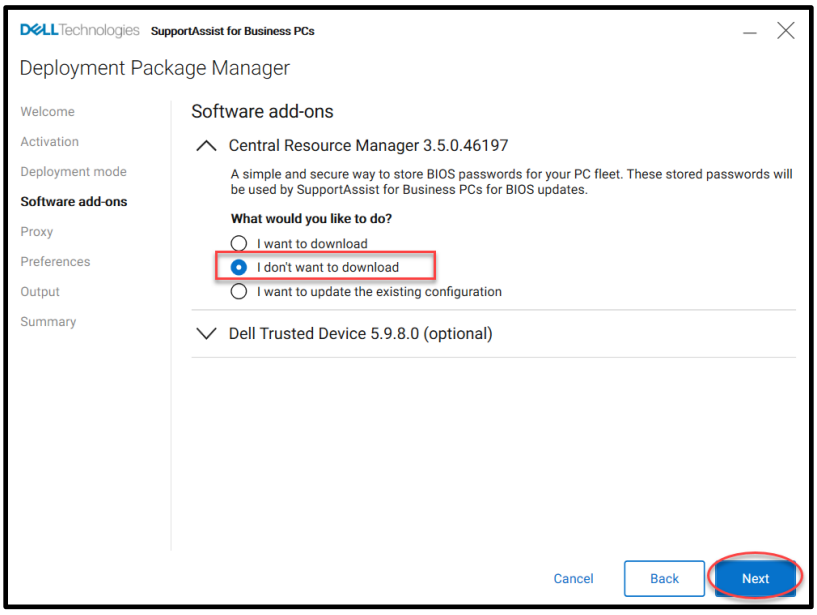
Check if Activation file is valid.
Click ‘Next’



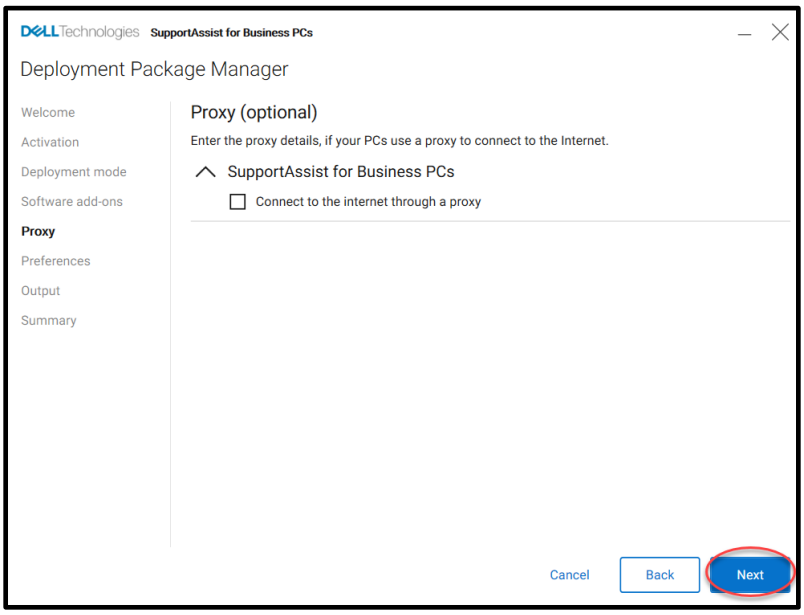
Select ‘Create a SupportAssist deployment’
Select ‘Windows installer 64-Bit (.MSI)’
Click ‘Next’



Select ‘I don´t want to download’
Click ‘Next’

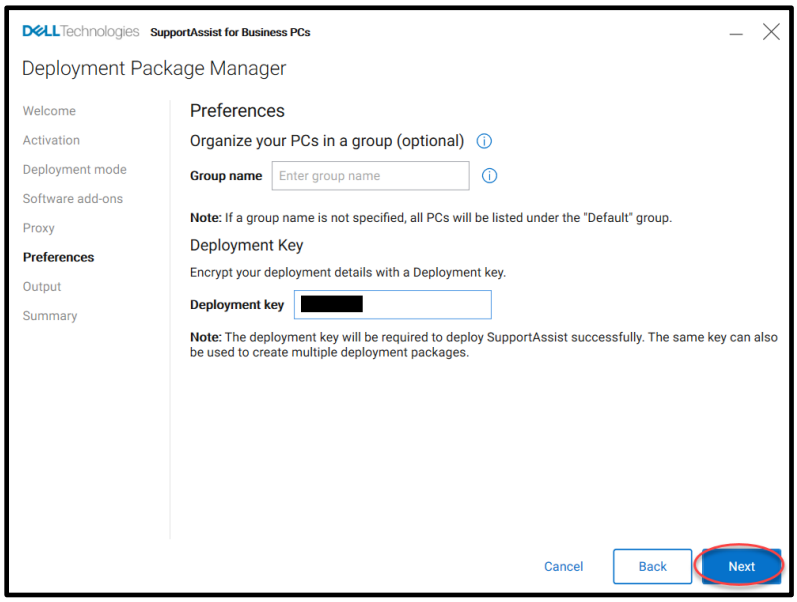


Click ‘Next’ (or if needed configure your Proxy settings here.)

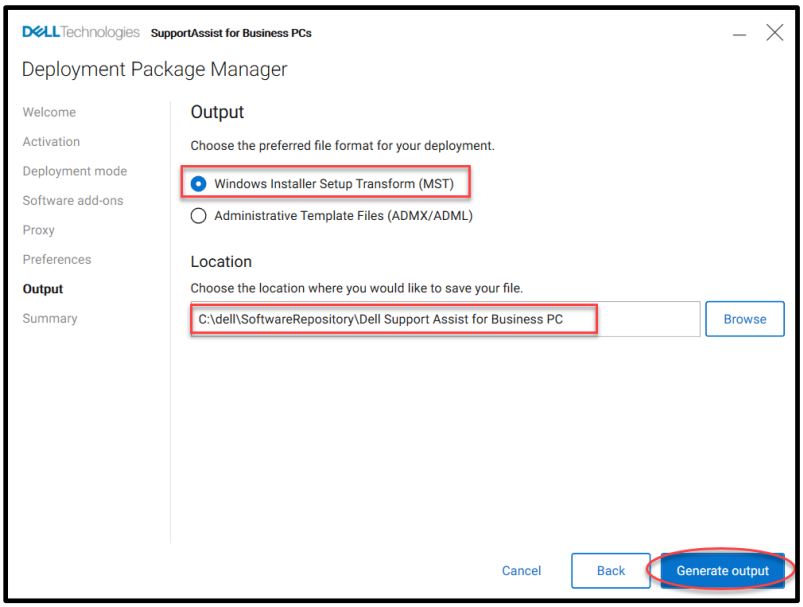


Note: For the deployment you need to setup a password (4-10 characters using numbers, letters, and special characters).

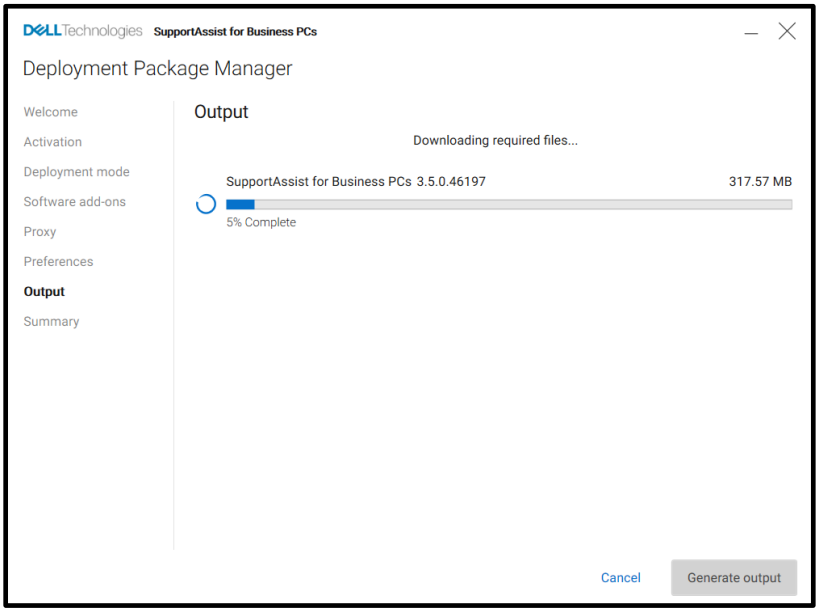
Click ‘Next’



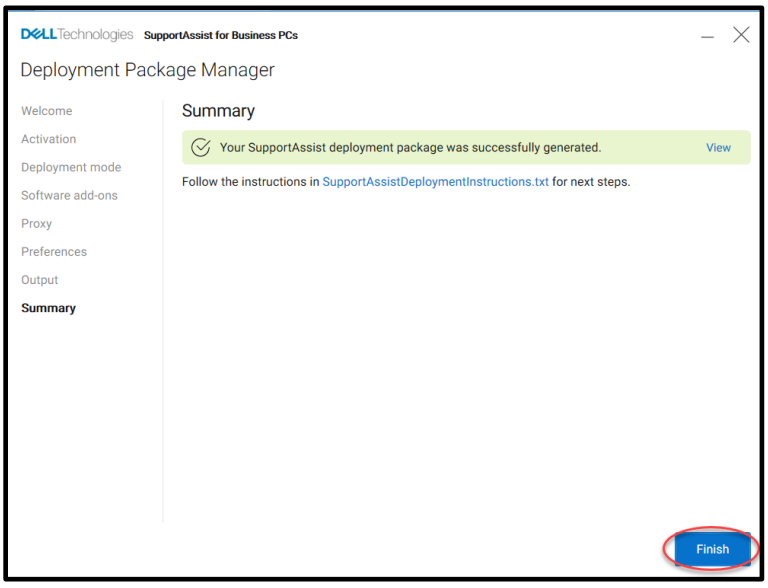
Select Windows Installer Setup Transform (MST)
Choose the path where the installer should be saved, e.g., C:\Dell\DSA
Click ‘Generate output’



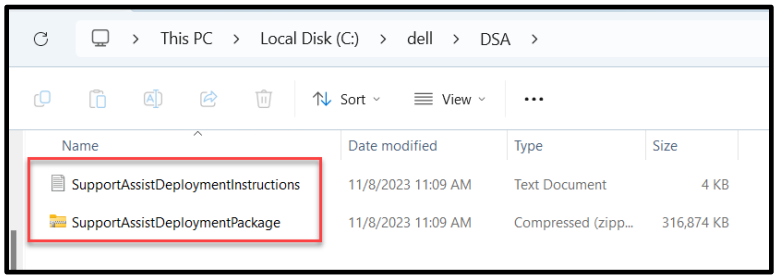
Download is starting.



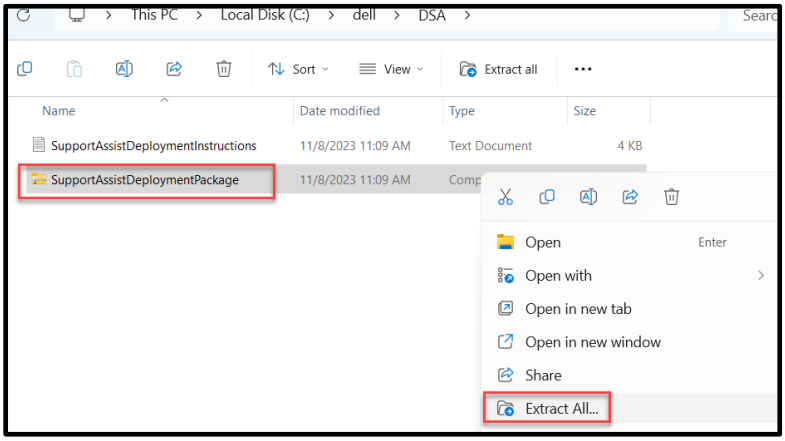
Final Summary.
Click ‘Close’



Files are now available.



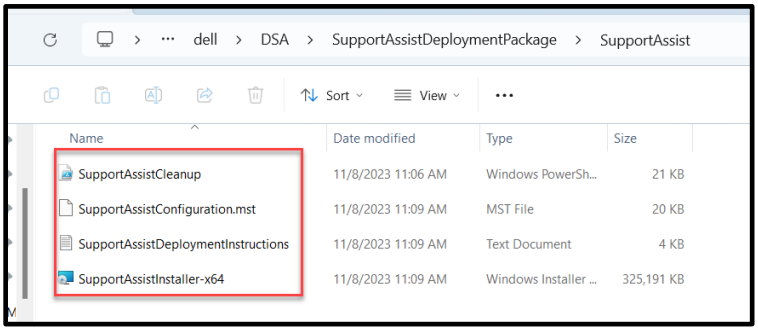
Extract the file ‘SupportAssistDeploymentPackage.zip’



If you have finished this step, copy file to your software repository for the next step. We planning to build a dependency app too. We will have now to folders one for the Application we want to install and the second one for the dependency Application we need to run first.

Folder for SupportAssist for Business PC

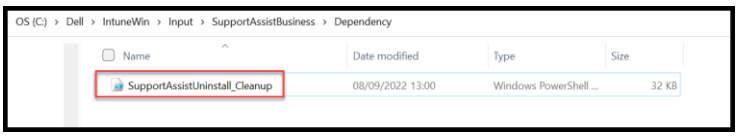
This folder includes all files who are generated in the steps before.



Folder for SupportAssist Dependency Application

Copy file ‘SupportAssistUninstall_Cleanup.ps1’ to a new folder as base for the dependency application.

Note: It is recommended to run the ‘SupportAssistUninstall_Cleanup.ps1’ first to uninstall all SupportAssist installations, otherwise it could be the new installation does not work correctly.



Scripts for Install, Uninstall and Detection

It is possible to use the native file for installation. In this document we are using PowerShell scripts to cover different scenarios of Install new, Update, and uninstall for a later automation of uploading applications by API.

All script could be download on Github Repository:
https://github.com/svenriebedell/Dell-Tools-Intune-Install

Install Script for SupportAssist (main install)

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

You need to fill in your Deployment Key, you have generated before on Page **113**.

```
##############################################
#### Function section                     ####
##############################################

function Get-installedcheck
  {

    param
      (
        [Parameter(mandatory=$true)][string] $AppSearchString
      )


    $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

    If ($null -ne $AppCheck)
      {
        return $true
      }
    Else
      {
        return $false
      }

  }

#### function based on https://stackoverflow.com/questions/8743122/how-do-i-find-the-msi-product-version-number-using-powershell

function Get-MsiFileVersion {
  param
    (
      [Parameter(mandatory=$true)][string] $msiName
    )

  try {
    $FullPath = (Resolve-Path $msiName).Path
    $windowsInstaller = New-Object -com WindowsInstaller.Installer

    $database = $windowsInstaller.GetType().InvokeMember(
          "OpenDatabase", "InvokeMethod", $Null,
          $windowsInstaller, @($FullPath, 0)
      )

    $q = "SELECT Value FROM Property WHERE Property = 'ProductVersion'"
    $View = $database.GetType().InvokeMember(
          "OpenView", "InvokeMethod", $Null, $database, ($q)
      )

    $View.GetType().InvokeMember("Execute", "InvokeMethod", $Null, $View, $Null)

    $record = $View.GetType().InvokeMember(
          "Fetch", "InvokeMethod", $Null, $View, $Null
      )

    [Version]$productVersion = $record.GetType().InvokeMember(
          "StringData", "GetProperty", $Null, $record, 1
      )

    $View.GetType().InvokeMember("Close", "InvokeMethod", $Null, $View, $Null)

    return $productVersion

  } catch {
    throw "Failed to get MSI file version the error was: {0}." -f $_
  }
```

```
}
##############################################
#### variable section                     ####
##############################################
$InstallerName = Get-ChildItem .\*.msi | Select-Object -ExpandProperty Name
$MSTName = Get-ChildItem .\*.mst | Select-Object -ExpandProperty Name
$ProgramPath = $InstallerName
$MSTPath = $MSTName
$ProgramVersion_target = Get-MsiFileVersion -msiName $InstallerName
$AppSearch = "%Dell%Support%Business%" #Parameter to search in registry
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
[Version]$ProgramVersion_current = $Program_current.Version
$ApplicationID_current = $Program_current.IdentifyingNumber
$Argumentstring = "/i " + "" + $ProgramPath + "' TRANSFORMS='" + $MSTPath + "' DEPLOYMENTKEY="UseYourKey#" /norestart /qn /l+
"c:\SupportAssistMsi.log"'  #Your Deployment Key you generated before with the installer

$SoftwareName = $Program_current.Name


##############################################
#### Program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#####################################################################
#Checking if older Version is installed and uninstall this Version  #
#####################################################################


If ($null -ne $ProgramVersion_current)
  {

  if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
      ##############################
      # uninstall Software old     #
      ##############################
      Start-Process -FilePath msiexec.exe -ArgumentList "/x $ApplicationID_current /qn" -Wait

      ##############################
      # uninstall success check    #
      ##############################
      $UninstallResult = Get-installedcheck -AppSearchString $AppSearch

      If ($UninstallResult -eq $true)
        {

          Write-Host "uninstall is unsuccessful" -BackgroundColor Red

          $UninstallData = [PSCustomObject]@{
                    Software = $SoftwareName
                    Version = ($ProgramVersion_current).ToString()
                    Uninstall = $false
                } | ConvertTo-Json

          Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


        }
      Else
        {

          Write-Host "uninstall is successful" -BackgroundColor Green

          $UninstallData = [PSCustomObject]@{
                    Software = $SoftwareName
                    Version = ($ProgramVersion_current).ToString()
                    Uninstall = $true
                } | ConvertTo-Json

          Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

        }


    }
```

```
  Else
    {
      Write-Host "same version is installed"
      [String]$VersionString = $ProgramVersion_target

      $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = $VersionString
                        Install = $false
                        Reason = "same version is installed"
                    } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData



      Exit 0
    }

  }

#####################################################################
#Install new Software                                               #
#####################################################################

Start-Process -FilePath msiexec.exe -ArgumentList $Argumentstring -Wait

#############################
# install success check     #
#############################
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
[Version]$ProgramVersion_current = $Program_current.Version
$SoftwareName = "Dell Support Assist for Business PCs"
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch
[String]$VersionString = $ProgramVersion_target

If ($UninstallResult -ne $true)
  {

    Write-Host "install is unsuccessful" -BackgroundColor Red

    $UninstallData = [PSCustomObject]@{
                      Software = $SoftwareName
                      Version = $VersionString
                      Install = $false
                      Reason = "Installation failed"
                    } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

  }
Else
  {
    If ($ProgramVersion_current -ge $VersionString)
      {

        Write-Host "install is successful" -BackgroundColor Green

        $UninstallData = [PSCustomObject]@{
                          Software = $SoftwareName
                          Version = $VersionString
                          Install = $true
                          Reason = "Update/Install/Newer Version"
                        } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData

      }
    Else
      {


        Write-Host "install is unsuccessful" -BackgroundColor red


        $UninstallData = [PSCustomObject]@{
                          Software = $SoftwareName
```

```
                    Version = $VersionString
                    Install = $false
                    Reason = "Older Version installed $ProgramVersion_current"
                } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData


        }

    }
```

Uninstall Script

'SupportAssistUninstall_Cleanup.ps1' from the installer package

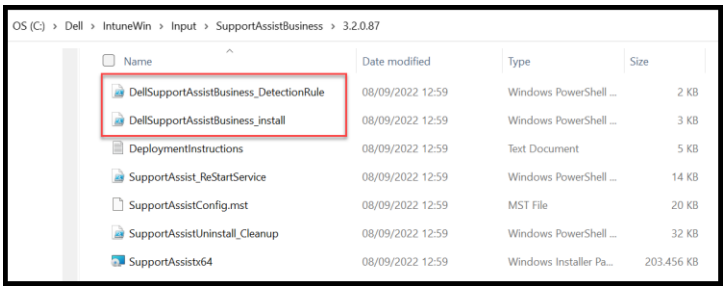
Detection Script (main install)

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

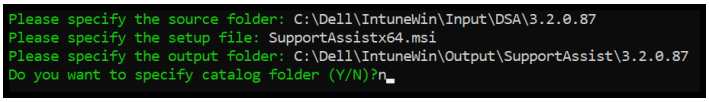
```
################################################################################
# Program with target Version
################################################################################
$ProgramVersion_target = '3.2.0.87' # need to be the same like the msi file
$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%SupportAssist%Business%'" | select-object -
ExpandProperty Version

if($ProgramVersion_current -eq $ProgramVersion_target)
  {
    Write-Host "Found it!"
  }
```

Please, copy these files in the same folder as your MSI Installer File.



Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.

Scripts Folder for Dependency

Install Script (dependency install)

'SupportAssistUninstall_Cleanup.ps1' from the installer package

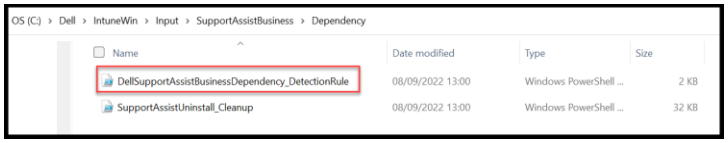
Detection Script (dependency install)

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

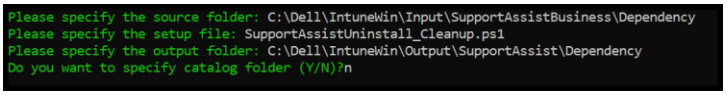
```
##### Varibles
$ProgramVersion_target = '3.2.0.87' # need to be the same like the msi file
$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%SupportAssist%Business%'" | Select-Object -
ExpandProperty Version
$Program_current = Get-CimInstance -ClassName Win32_Product | Where-Object {($_.Name -like '*Dell SupportAssist*' -and $_.Name -notlike '*OS
Recovery*' -and $_.Name -notlike "Dell*SupportAssist*Remediation")} | Select-Object -ExpandProperty Name

#####################################################################################################################
# Checking if a SupportAssist existing after Cleanup script                                                         #
#####################################################################################################################


if ($null -eq $Program_current)
  {

  Write-Host "Found it!"

  }
Else
  {

  ###################################################################################################################
  # Cover newest version is installed on the machine                                                                #
  ###################################################################################################################

  if ($ProgramVersion_target -eq $ProgramVersion_current)
    {

    Write-Host "Found it!"

    }

  }
```

Please, copy these files in the folder Dependency together with the Uninstaller PowerShell Script.



Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.

Import and Deployment settings Dell SupportAssist for Business PCs for Intune

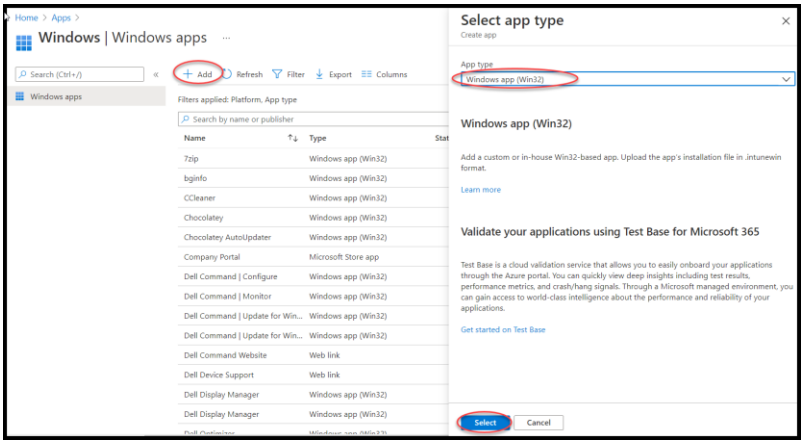
Part Dependency Application

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

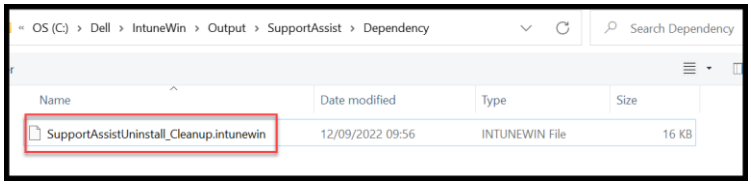


Section ‘App information’

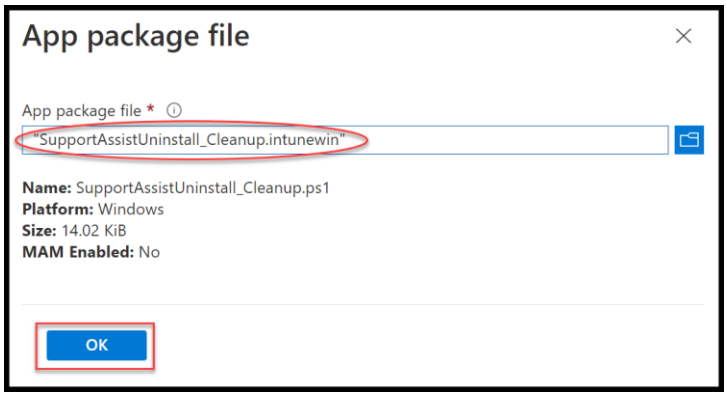
Click ‘Select app package file’

Click ‘Folder’

Select ‘SupportAssistUninstall_Cleanup.intunewin’

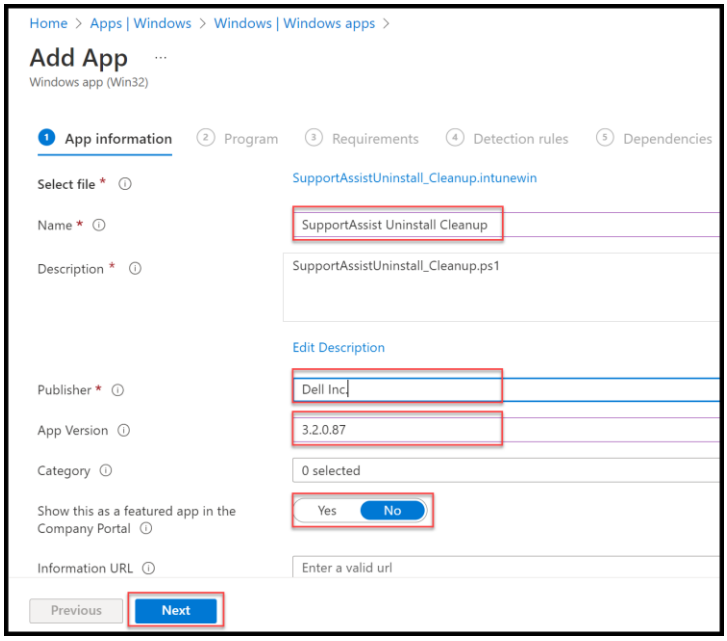


Click ‘OK’



Field	Value
Name	SupportAssist Uninstall Cleanup
Publisher	Dell Inc.
App Version	3.2.0.87 **Note:** Use same Version as your SupportAssist for easier find the right combination of Install and Dependency
Show this as a featured app in the Company Portal	No

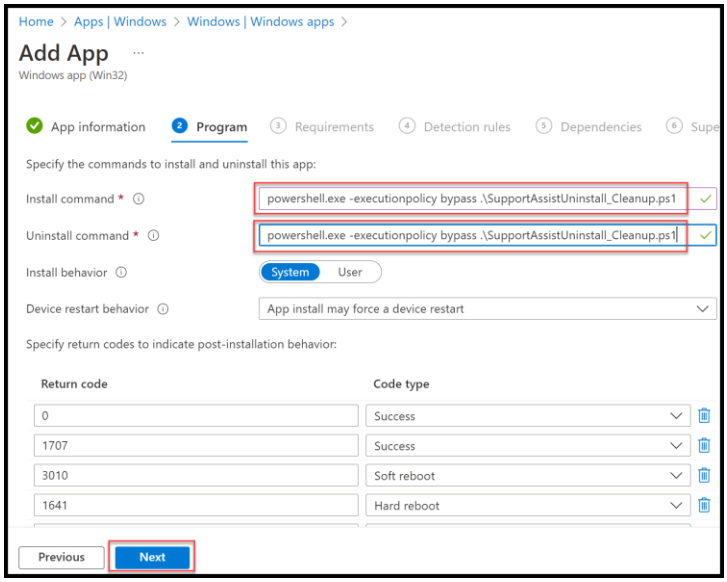
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\SupportAssistUninstall_Cleanup.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\SupportAssistUninstall_Cleanup.ps1

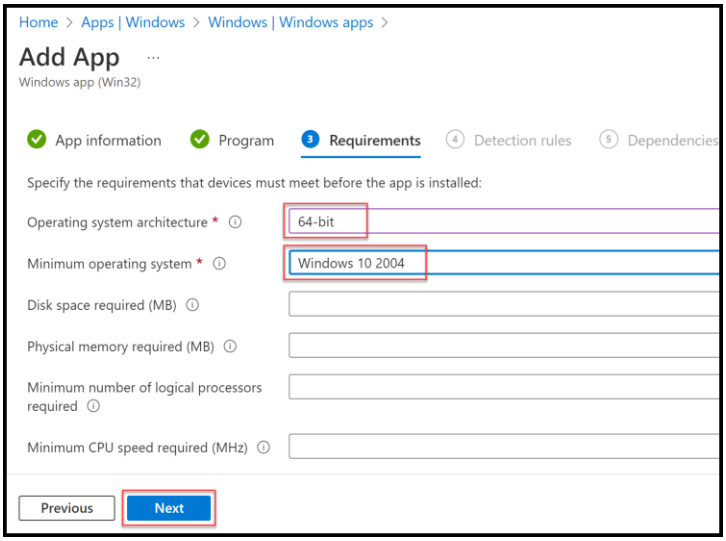
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

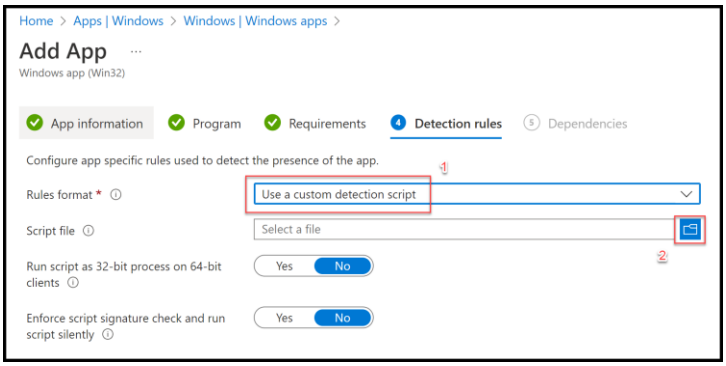
Click ‘Next’



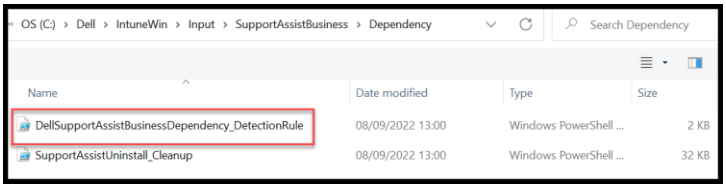
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

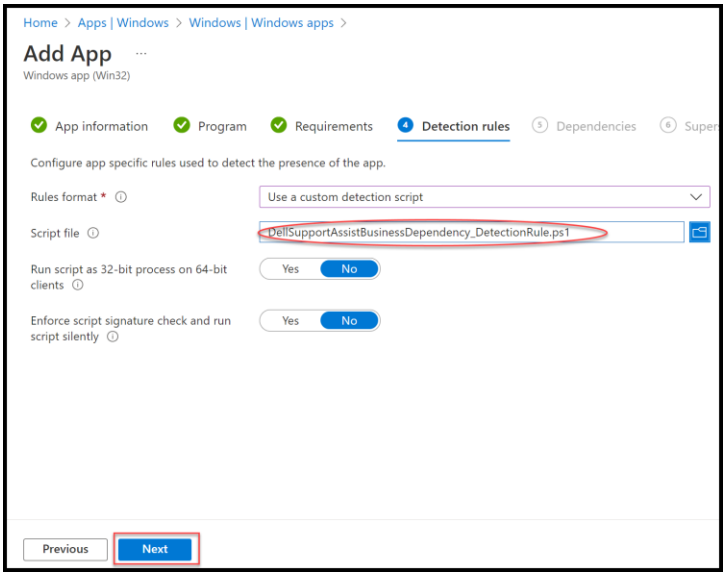
Click ‘Folder’



Select ‘DellSupportAssistBusinessDependency_DetectionRule.ps1’



Click ‘Next’



Section ‘Dependencies’

No changes

Section ‘Supersedence’

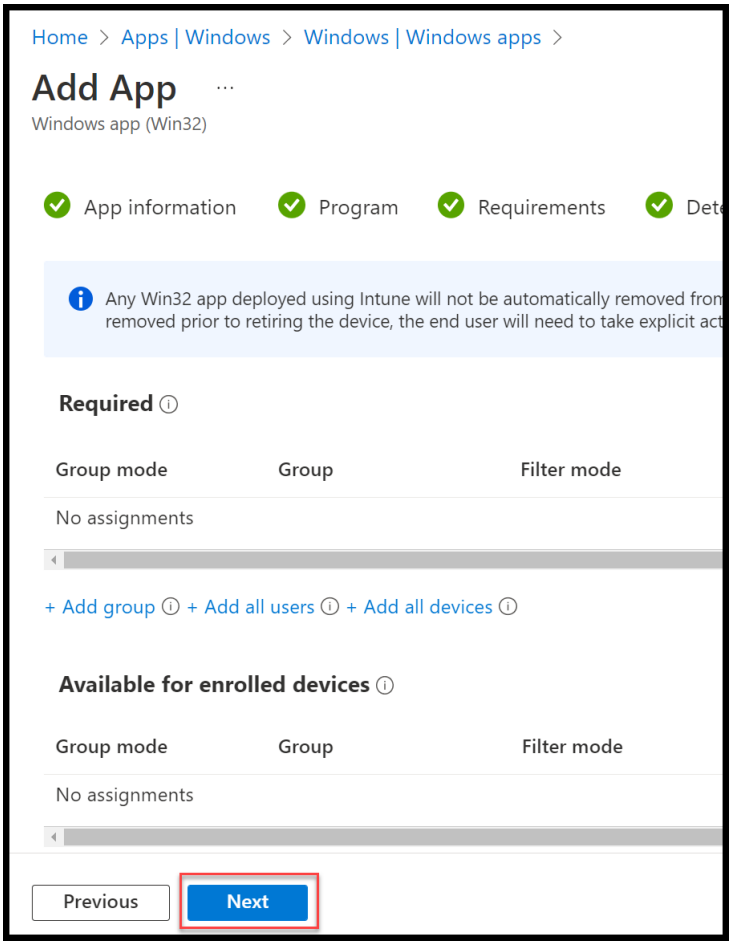
No changes

Section ‘Assignments’

No changes

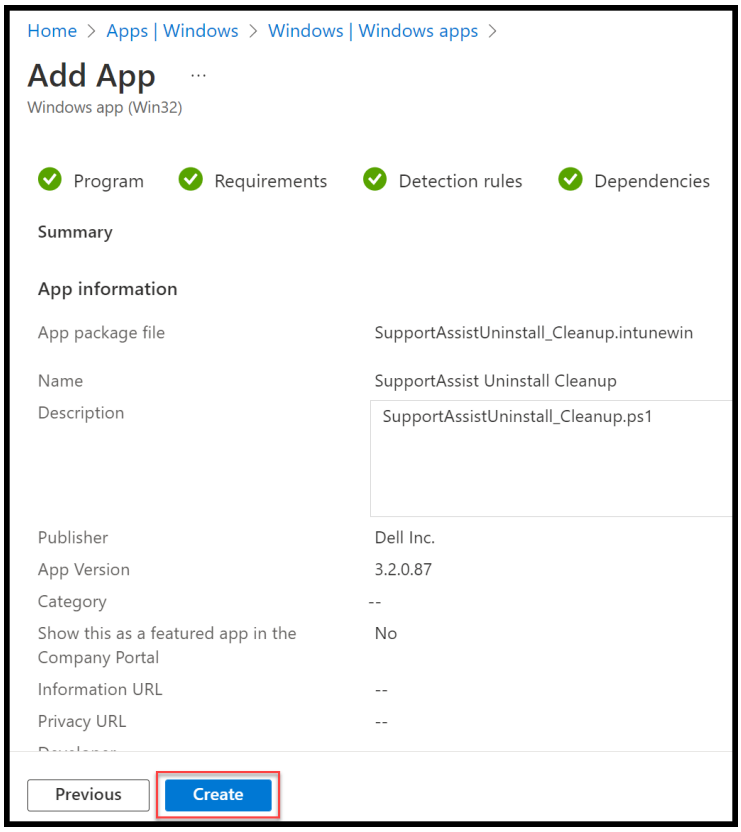
Option	Value
Required	
Available for enrolled devices	
Uninstall	

Click ‘Next’

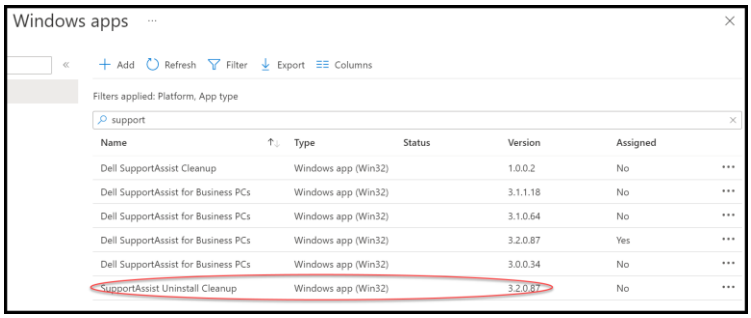


The app is now finished

Click ‘Create’



Ready to work.



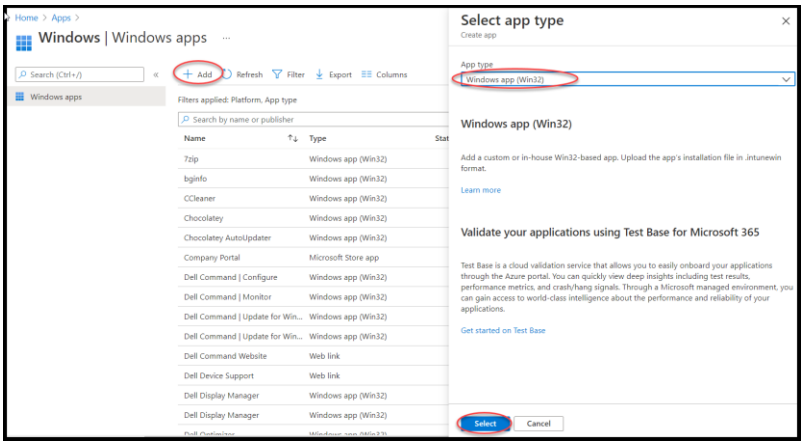
Part SupportAssist for Business Application

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

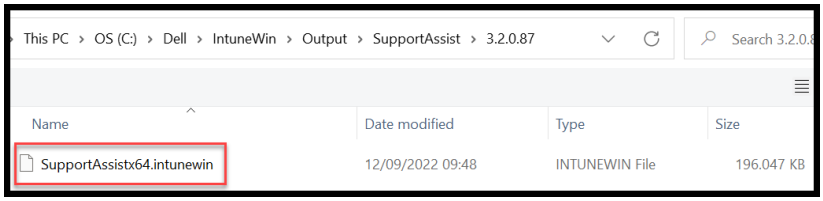


Section ‘App information’

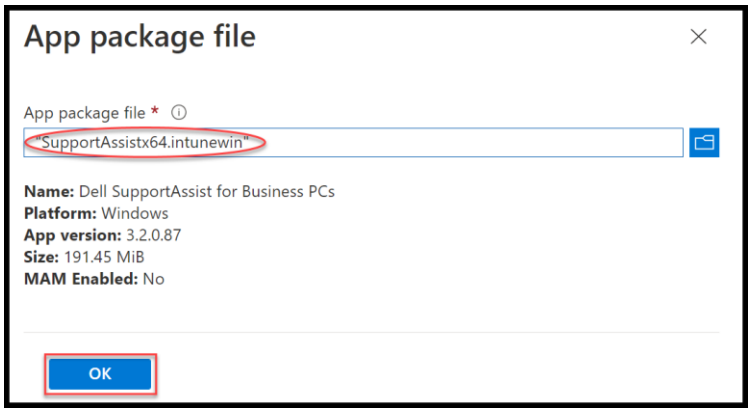
Click ‘Select app package file’

Click ‘Folder’

Select ‘SupportAssistx64.intunewin’

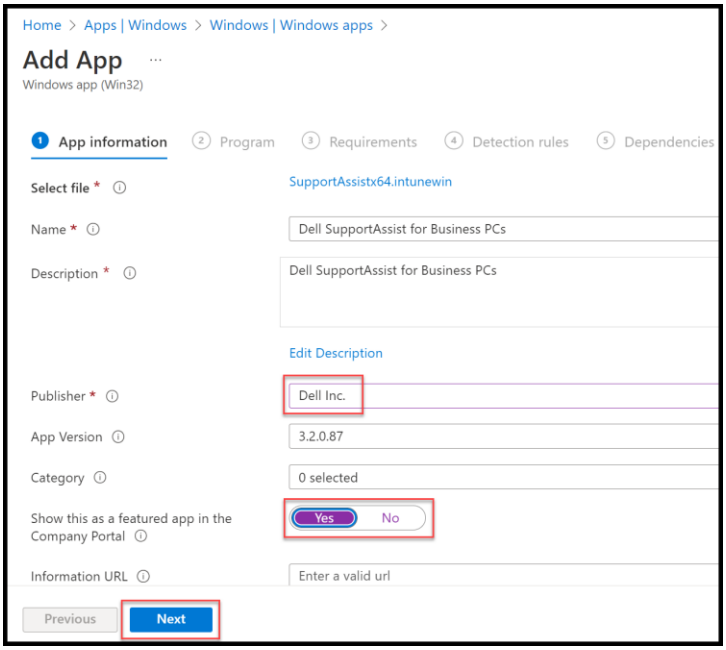


Click ‘OK’



Field	Value
Publisher	Dell Inc.
Show this as a featured app in the Company Portal	Yes

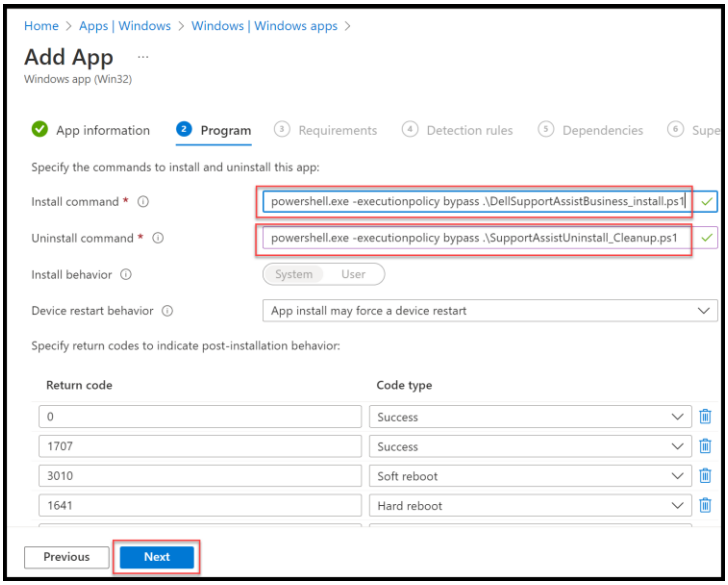
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\DellSupportAssistBusiness_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\SupportAssistUninstall_Cleanup.ps1

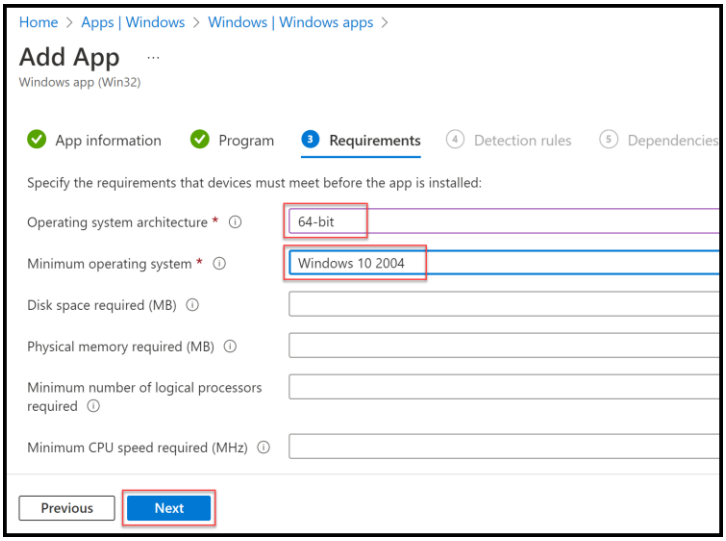
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

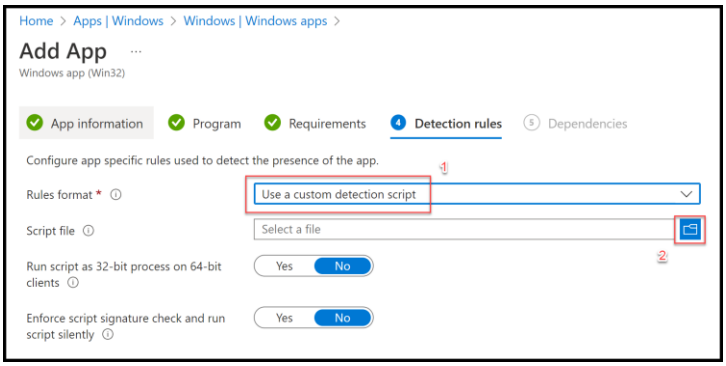
Click ‘Next’



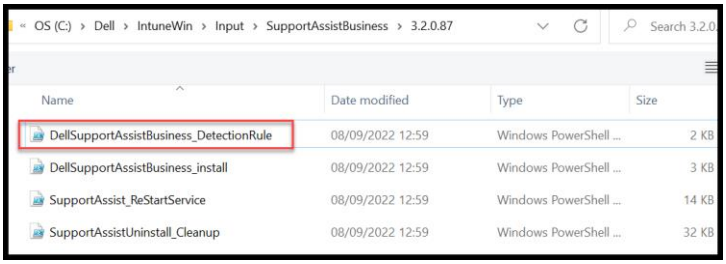
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

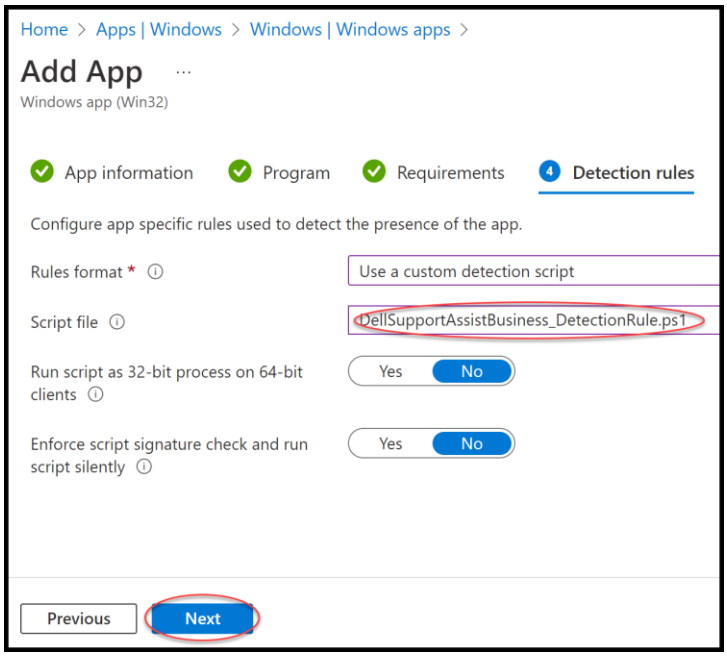
Click ‘Folder’



Select ‘DellSupportAssistBusiness_DetectionRule.ps1’

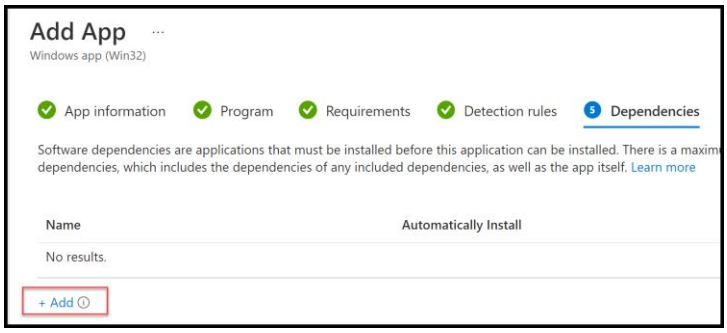


Click ‘Next’



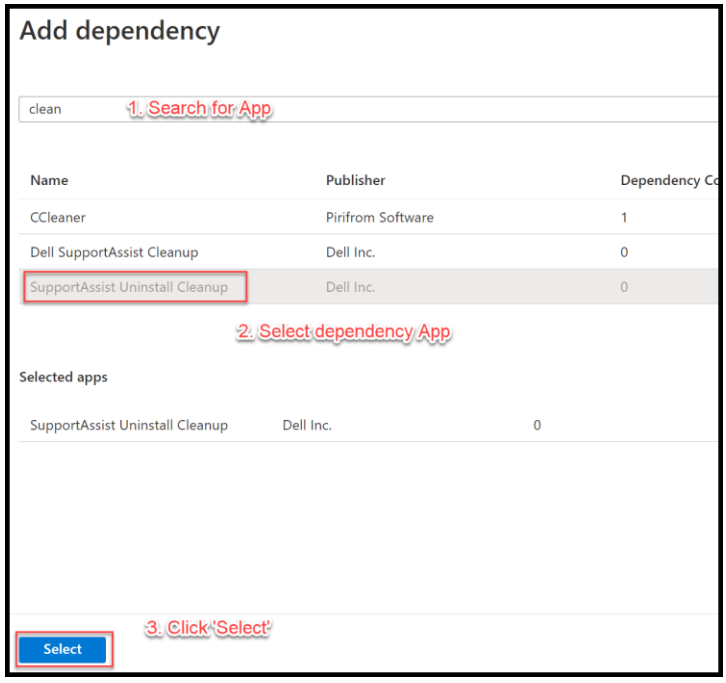
Section ‘Dependencies’

Click ‘Add’



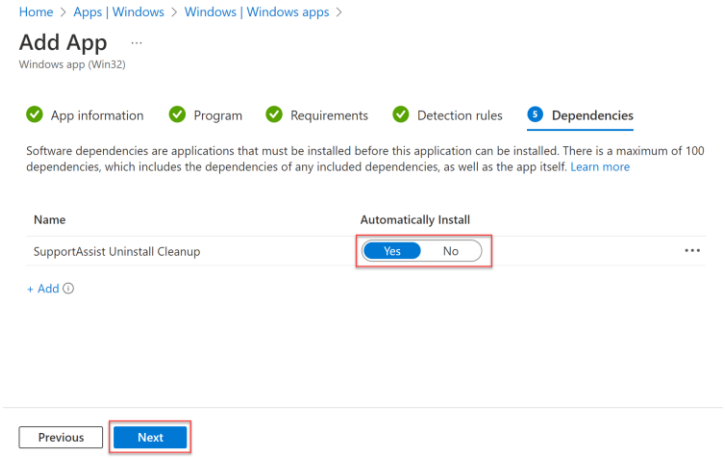
Search for the new created dependency Application ‘SupportAssist Uninstall Cleanup’ and select this Application.

Click ‘Select’



Field	Value
Automatically Install	Yes

Click ‘Next’



Section ‘Supersedence’

No changes

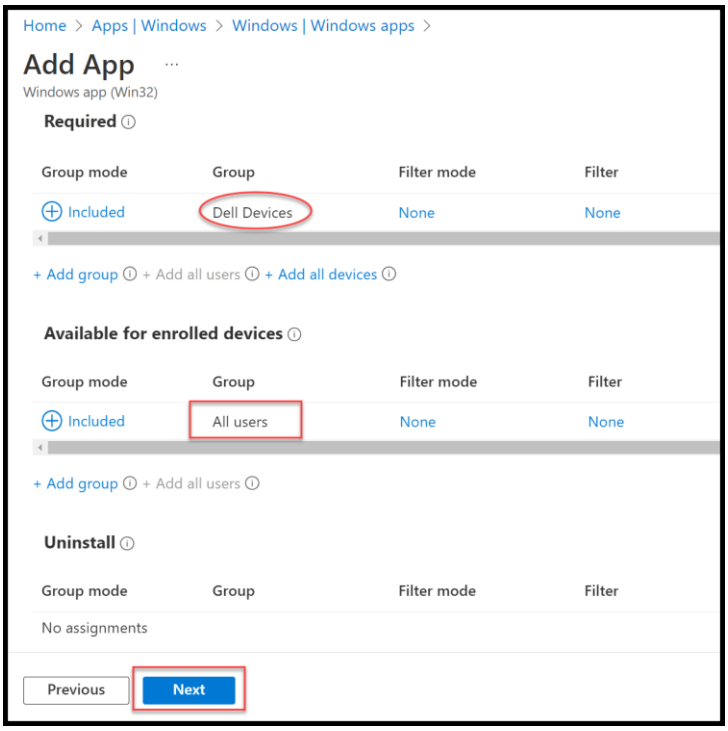
Section ‘Assignments’

No changes

The Dell SupportAssist for Business PC supports only Dell (Latitude, Optiplex, Precision and mobile XPS) it makes sense to have da dynamic group which only incl. these systems.

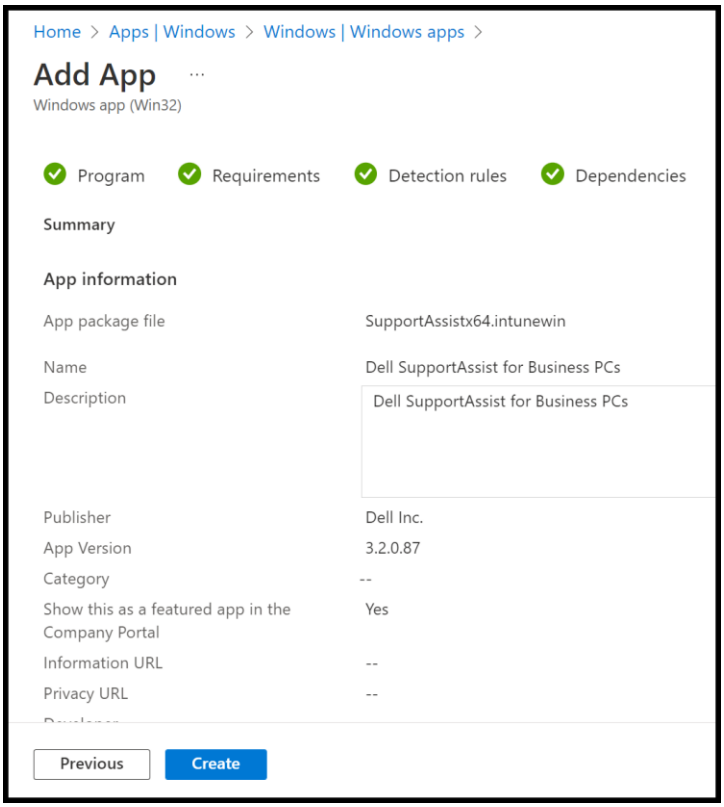
Option	Value
Required	Add Group ‘Dell Device’
Available for enrolled devices	Add Group ‘All User’
Uninstall	

Click ‘Next’

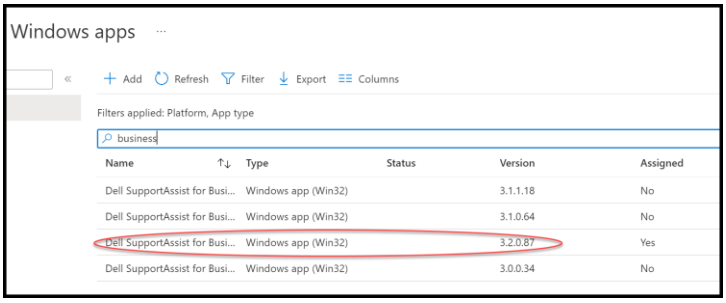


The app is now finished

Click ‘Create’



Ready to work.



Dell Optimizer

Introduction

Dell Optimizer is a software application that intelligently optimizes the performance of your system by using artificial intelligence and machine learning. Dell Optimizer dynamically configures your system settings to optimize the performance of your applications. It improves productivity, performance, and user experience through system usage analysis and learning.

On Dell Precision workstations, Dell Optimizer for Precision includes analytics feature that collects extensive data about your system and helps identify potential issues.

Dell Optimizer Version 4.x User's Guide
https://www.dell.com/support/home/en-us/product-support/product/dell-optimizer/docs

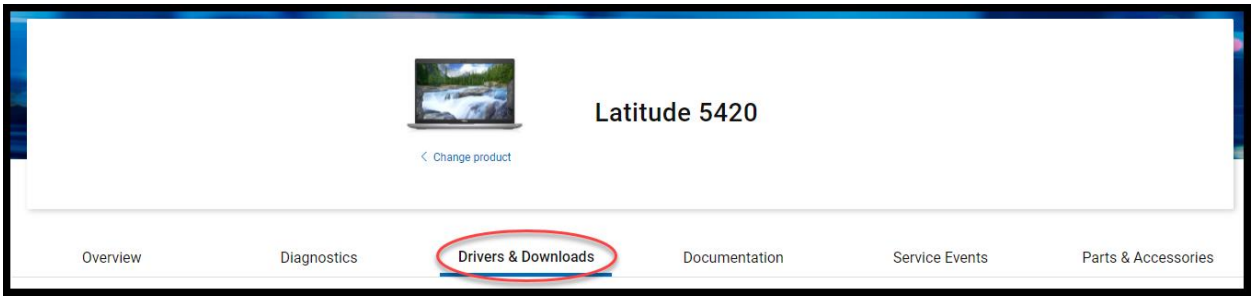
Prepare Dell Optimizer for Intune

Download Dell Optimizer

Download the newest Version of Dell Optimizer from our website.

https://www.dell.com/support/home/en-us

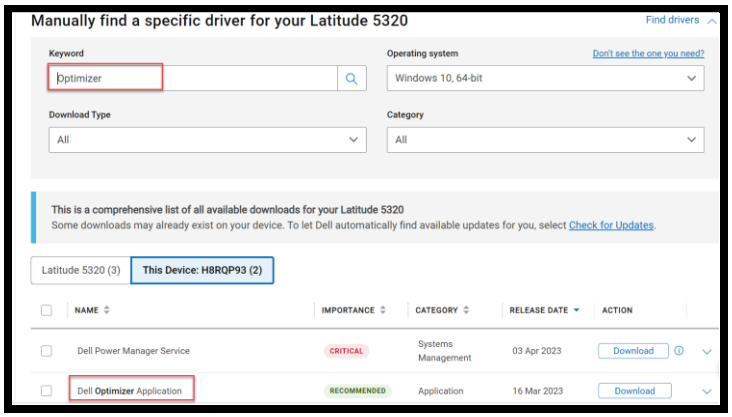
Note: Please select a device platform like Latitude 5420 and move to section ‘Drivers & Downloads’



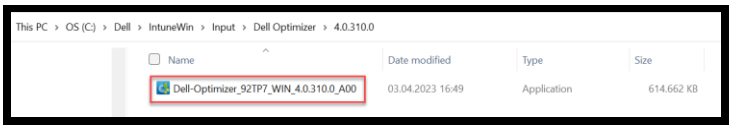
Choose Manually to find a specific driver

Field	Value
Keyword	Optimizer

Find ‘Dell Optimizer Application’ and download the installer file.



If you have downloaded the file from dell.com/support, copy file to your software repository for the next step.



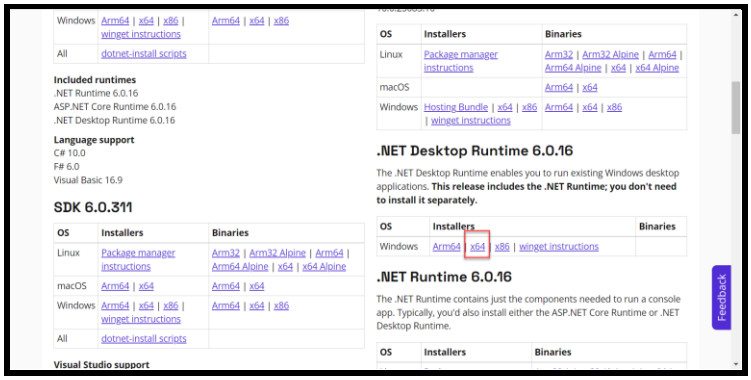
Download Microsoft .net Runtime 6.x

Dell Optimizer since Version 4.0.201.0 is Microsoft .net Runtime 6.0.15 or higher required. If you cover this by standard, you can ignore this part otherwise we will show you how you can build a dependency application in Intune which allows to check if Microsoft .net Runtime is installed or not and install the application if needed.

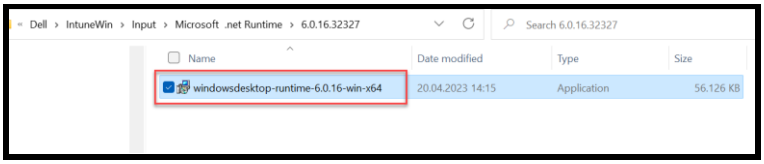
Download the latest version of .NET Desktop Runtime 6.x

https://dotnet.microsoft.com/en-us/download/dotnet/6.0

Find .NET Desktop Runtime 6.x for Windows x64' and download the installer file.



If you have downloaded the file from dell.com/support, copy file to your software repository for the next step.



Scripts for Install, Uninstall and Detection

It is possible to use the native file for installation. In this document we are using PowerShell scripts to cover different scenarios of Install new, Update, and uninstall for a later automation of uploading applications by API.

All script could be download on Github Repository:
https://github.com/svenriebedell/Dell-Tools-Intune-Install

Script for Dell Optimizer

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
##############################################
#### Function section                     ####
##############################################

function Get-installedcheck
  {

     param
       (
          [Parameter(mandatory=$true)][string] $AppSearchString
       )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
       {
          return $true
       }
     Else
       {
          return $false
       }

  }


function get-uninstallstring
  {
    param
      (
        [Parameter(mandatory=$true)][ValidateSet($true,$false)][string]$PowerShell64,
        [Parameter(mandatory=$true)][ValidateSet("Optimizer","WebView2","Runtime6","DDM","DPM")][string]$App,
        [Parameter(mandatory=$true)][ValidateSet("UninstallString","InstallLocation","Quietuninstallstring")][string]$Value
      )

    $AppSearch = switch ($App)
      {
        Optimizer   {"Dell*Optimizer*Core"}
        WebView2    {"Microsoft*WebView2*"}
        Runtime6    {"Microsoft Windows Desktop Runtime - 6*(x64)*"}
        DDM         {"Dell*Display*Manager*"}
        DPM         {"Dell*Power*Manager*"}


      }


    if ($PowerShell64 -eq $true)
      {

        If (($AppSearch -like "*Display*") -or ($AppSearch -like "Dell*Power*"))
          {
            # get 64 Bit uninstall
            Get-ChildItem -Path HKLM:\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object {$_.DisplayName
-like "$AppSearch" } | Select-Object -ExpandProperty $Value
          }

        else
          {
            # get 32 Bit uninstall
            Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object
{$_.DisplayName -like "$AppSearch" } | Select-Object -ExpandProperty $Value
          }



      }
```

```
    else
      {
        # get 32 Bit uninstall
        Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object
{$_.DisplayName -like "$AppSearch" } | Select-Object -ExpandProperty $Value
      }


  }

##################################################
#### variable section                         ####
##################################################
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
$AppSearch = "%Dell %Optimizer%" #Parameter to search in registry
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
[Version]$ProgramVersion_current = $Program_current.Version
$PS64 = [Environment]::Is64BitProcess # Check 32 or 64 bit PowerShell
$SoftwareName = $Program_current.Name


##################################################
#### Program section                          ####
##################################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore


#####################################################################
#Checking if older Version is installed and uninstall this Version  #
#####################################################################

If ($Null -ne $ProgramVersion_current)
  {

  if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
      ########################################
      # Uninstall older Versions             #
      ########################################
      #### Get Uninstallstring from registry
      $ApplicationUninstallString = get-uninstallstring -PowerShell64 $PS64 -App Optimizer -Value UninstallString
      $ApplicationUninstallString = $ApplicationUninstallString + " /Silent"

      Start-Process cmd.exe -ArgumentList'/c',"$ApplicationUninstallString"  -Wait -NoNewWindow
      Start-Sleep -Seconds 15

      ############################
      # uninstall success check  #
      ############################
      $UninstallResult = Get-installedcheck -AppSearchString $AppSearch

      If ($UninstallResult -eq $true)
        {

          Write-Host "uninstall is unsuccessful" -BackgroundColor Red

          $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_current).ToString()
                        Uninstall = $false
                    } | ConvertTo-Json

          Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


        }
      Else
        {

          Write-Host "uninstall is successful" -BackgroundColor Green

          $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_current).ToString()
```

```
                        Uninstall = $true
                    } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

        }


    }

  Else
    {
      Write-Host "same version is installed"

      $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_target).ToString()
                        Install = $false
                        Reason = "same version is installed"
                    } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData




      Exit 0
    }
  }


#####################################################################
#Install new Software                                               #
#####################################################################

Start-Process -FilePath "$ProgramPath" -ArgumentList "/s" -Wait

#############################
# install success check     #
#############################
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
[Version]$ProgramVersion_current = $Program_current.Version
$SoftwareName = $Program_current.Name
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -ne $true)
  {

    Write-Host "install is unsuccessful" -BackgroundColor Red

    $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_target).ToString()
                        Install = $false
                        Reason = "Installation failed"
                      } | ConvertTo-Json

    Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

  }
Else
  {

    If ($ProgramVersion_current -ge $ProgramVersion_target)
      {

        Write-Host "install is successful" -BackgroundColor Green

        $UninstallData = [PSCustomObject]@{
                            Software = $SoftwareName
                            Version = ($ProgramVersion_target).ToString()
                            Install = $true
                            Reason = "Update/Install/Newer Version"
                          } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData

      }
    Else
```

```
    {


      Write-Host "install is unsuccessful" -BackgroundColor red


      $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = ($ProgramVersion_target).ToString()
                                    Install = $false
                                    Reason = "Older Version installed $ProgramVersion_current"
                                   } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData


    }

}
```

Uninstall Script

The script starts the uninstalling of application.

```
################################################
#### Variables section                      ####
################################################


$WebViewUninstall = $false  # $true/$false to enable/disable uninstall of Microsoft Edge WebView2, be careful and check if other applications need this app before you uninstall this software
$RuntimeUninstall = $false  # $true/$false to enable/disable uninstall of Microsoft Windows Desktop Runtime 6.x, be careful and check if other applications need this app before you uninstall this software
$DDMUninstall = $false  # $true/$false to enable/disable uninstall of Dell Display Manager 2.x
$DPMUninstall = $false  # $true/$false to enable/disable uninstall of Dell Power Manager Service
$PS64 = [Environment]::Is64BitProcess # Check 32 or 64 bit PowerShell
$AppSearch = "%Dell %Optimizer%" #Parameter to search in registry
$Program_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearch'"
[Version]$ProgramVersion_current = $Program_current.Version
$SoftwareName = $Program_current.Name


#####################################################################
# function section                                                  #
#####################################################################

function get-uninstallstring
  {
    param
      (
        [Parameter(mandatory=$true)][ValidateSet($true,$false)][string]$PowerShell64,
        [Parameter(mandatory=$true)][ValidateSet("Optimizer","WebView2","Runtime6","DDM","DPM")][string]$App,
        [Parameter(mandatory=$true)][ValidateSet("UninstallString","InstallLocation","Quietuninstallstring")][string]$Value
      )

    $AppSearch = switch ($App)
      {
        Optimizer   {"Dell*Optimizer*Core"}
        WebView2    {"Microsoft*WebView2*"}
        Runtime6    {"Microsoft Windows Desktop Runtime - 6*(x64)*"}
        DDM         {"Dell*Display*Manager*"}
        DPM         {"Dell*Power*Manager*"}


      }


    if ($PowerShell64 -eq $true)
      {

        If (($AppSearch -like "*Display*") -or ($AppSearch -like "Dell*Power*"))
          {
            # get 64 Bit uninstall
            Get-ChildItem -Path HKLM:\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object {$_.DisplayName -like "$AppSearch" } | Select-Object -ExpandProperty $Value
          }

        else
          {
            # get 32 Bit uninstall
            Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object {$_.DisplayName -like "$AppSearch" } | Select-Object -ExpandProperty $Value
          }



      }
    else
      {
        # get 32 Bit uninstall
        Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object {$_.DisplayName -like "$AppSearch" } | Select-Object -ExpandProperty $Value
      }


  }
```

```
function Get-installedcheck
  {

     param
        (
           [Parameter(mandatory=$true)][string] $AppSearchString
        )


     $AppCheck = Get-CimInstance -ClassName Win32_Product -Filter "Name like '$AppSearchString'"

     If ($null -ne $AppCheck)
        {
           return $true
        }
     Else
        {
           return $false
        }

  }


################################################
#### program section                        ####
################################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

#### Get Uninstallstring from registry
$ApplicationUninstallString = get-uninstallstring -PowerShell64 $PS64 -App Optimizer -Value UninstallString
$ApplicationUninstallString = $ApplicationUninstallString + " /Silent"

#### Uninstall Dell Optimizer
Start-Process cmd.exe -ArgumentList'/c',"$ApplicationUninstallString"  -Wait -NoNewWindow
Start-Sleep -Seconds 20

#############################
# uninstall success check   #
#############################
$UninstallResult = Get-installedcheck -AppSearchString $AppSearch

If ($UninstallResult -eq $true)
  {

     Write-Host "uninstall is unsuccessful" -BackgroundColor Red

     $UninstallData = [PSCustomObject]@{
                                 Software = $SoftwareName
                                 Version = $Program_current.Version
                                 Uninstall = $false
                               } | ConvertTo-Json

     Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


  }
Else
  {

     Write-Host "uninstall is successful" -BackgroundColor Green

     $UninstallData = [PSCustomObject]@{
                                 Software = $SoftwareName
                                 Version = $Program_current.Version
                                 Uninstall = $true
                               } | ConvertTo-Json

     Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

  }


#################################
# Uninstall additional Software #
#################################
```

```
#### uninstall Microsoft Edge WebView2 and/or Microsoft Windows Desktop Runtime 6.x if enabled
If($WebViewUninstall -eq $true)
  {
    $WebViewUninstallString = get-uninstallstring -PowerShell64 $PS64 -App WebView2 -Value UninstallString

    If($null -ne $WebViewUninstallString)
      {
        Write-Host "WebView2 Runtime found"
        $WebViewUninstallString = $WebViewUninstallString +" --force-uninstall"
        Start-Process cmd.exe -ArgumentList'/c',"$WebViewUninstallString"  -Wait -NoNewWindow

        $UninstallResultWebView = Get-installedcheck -AppSearchString $AppSearch

        If ($UninstallResultWebView -eq $true)
          {

            Write-Host "uninstall is unsuccessful" -BackgroundColor Red

            $UninstallData = [PSCustomObject]@{
                                    Software = "WebView2 Runtime"
                                    Version = ""
                                    Uninstall = $false
                                  } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


          }
        Else
          {

            Write-Host "uninstall is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                                   Software = "WebView2 Runtime"
                                   Version = ""
                                   Uninstall = $true
                                  } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

          }

      }

  }

If($RuntimeUninstall -eq $true)
  {
    $Runtime6UninstallString = get-uninstallstring -PowerShell64 $PS64 -App Runtime6 -Value Quietuninstallstring

    If($null -ne $Runtime6UninstallString)
      {
        Write-Host "Desktop Runtime 6 found"
        Start-Process cmd.exe -ArgumentList'/c',"$Runtime6UninstallString" -Wait -NoNewWindow

        $UninstallResultDTRuntime = Get-installedcheck -AppSearchString $AppSearch

        If ($UninstallResultDTRuntime -eq $true)
          {

            Write-Host "uninstall is unsuccessful" -BackgroundColor Red

            $UninstallData = [PSCustomObject]@{
                                    Software = "Microsoft Desktop Runtime 6"
                                    Version = ""
                                    Uninstall = $false
                                  } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


          }
        Else
          {

            Write-Host "uninstall is successful" -BackgroundColor Green
```

```
            $UninstallData = [PSCustomObject]@{
                                    Software = "Microsoft Desktop Runtime 6"
                                    Version = ""
                                    Uninstall = $true
                                   } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

          }
      }

  }

If($DDMUninstall -eq $true)
  {

    $DDMUninstallString = get-uninstallstring -PowerShell64 $PS64 -App DDM -Value UninstallString

    If($null -ne $DDMUninstallString)
      {
        Write-Host "Display Manager 2"
        Start-Process -FilePath $DDMUninstallString -ArgumentList "/S" -Wait -NoNewWindow

        UninstallResultDDM2 = Get-installedcheck -AppSearchString $AppSearch

        If ($UninstallResultDDM2 -eq $true)
          {

            Write-Host "uninstall is unsuccessful" -BackgroundColor Red

            $UninstallData = [PSCustomObject]@{
                                     Software = "Display Manager 2"
                                     Version = ""
                                     Uninstall = $false
                                    } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


          }
        Else
          {

            Write-Host "uninstall is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                                    Software = "Display Manager 2"
                                    Version = ""
                                    Uninstall = $true
                                   } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

          }
      }
    else
      {

        # Cover problem of PS32 can not access 64 Bit Registry
        $CheckPath = Test-Path "C:\Program Files\Dell\Dell Display Manager 2\uninst.exe"

        If ($CheckPath -eq $true)
          {
            Write-Host "Display Manager 2"
            $DDMUninstallString = "C:\Program Files\Dell\Dell Display Manager 2\uninst.exe /S"
            Start-Process -FilePath "C:\Program Files\Dell\Dell Display Manager 2\uninst.exe" -ArgumentList "/S" -Wait -NoNewWindow

            $UninstallResultDDM2 = Get-installedcheck -AppSearchString $AppSearch

            If ($UninstallResultDDM2 -eq $true)
              {

                Write-Host "uninstall is unsuccessful" -BackgroundColor Red

                $UninstallData = [PSCustomObject]@{
                                        Software = "Display Manager 2"
                                        Version = ""
                                        Uninstall = $false
                                       } | ConvertTo-Json
```

```
                Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


              }
            Else
              {

                Write-Host "uninstall is successful" -BackgroundColor Green

                $UninstallData = [PSCustomObject]@{
                                    Software = "Display Manager 2"
                                    Version = ""
                                    Uninstall = $true
                                  } | ConvertTo-Json

                Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

              }
          }

      }

  }

If($DPMUninstall -eq $true)
  {

    $DPMUninstallString = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Power%Manager%'" | Select-Object -
ExpandProperty IdentifyingNumber

    If($null -ne $DPMUninstallString)
      {
        Write-Host "Dell Power Manager Service"
        Start-Process -FilePath msiexec.exe -ArgumentList "/x $DPMUninstallString /qn" -Wait -NoNewWindow

        $UninstallResultDPM = Get-installedcheck -AppSearchString $AppSearch

        If ($UninstallResultDPM -eq $true)
          {

            Write-Host "uninstall is unsuccessful" -BackgroundColor Red

            $UninstallData = [PSCustomObject]@{
                                Software = "Dell Power Manager Service"
                                Version = ""
                                Uninstall = $false
                              } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


          }
        Else
          {

            Write-Host "uninstall is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                                Software = "Dell Power Manager Service"
                                Version = ""
                                Uninstall = $true
                              } | ConvertTo-Json

            Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

          }
      }

  }
```

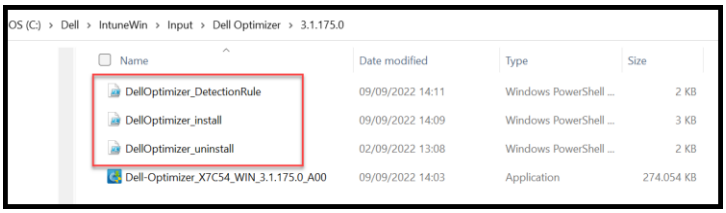
Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

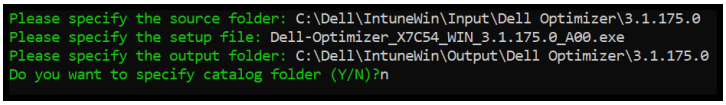
```
#############################################################################################################################
# Program EXE with target Version
#############################################################################################################################
$ProgramVersion_target = '4.0.310.0' # need to be the same like the exe file
$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell %Optimizer%'" | select -ExpandProperty Version

if($ProgramVersion_current -eq $ProgramVersion_target)
   {
   Write-Host "Found it!"
   }
```

Please, copy these files in the same folder as your EXE Installer File.



Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.

Script for Microsoft .net Runtime

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
##### Variables
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
[Version]$ProgramVersion_current = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-
ItemProperty | Where-Object {$_.DisplayName -like "Microsoft .NET Runtime - 6.*(x64)" } | Select-Object -ExpandProperty DisplayVersion

######################################################################
#Checking if older Version is installed and uninstall this Version   #
######################################################################

If ($ProgramVersion_current -ne $null)
  {

  if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
      Start-Process cmd.exe -ArgumentList '/c',$ApplicationID_current -Wait -NoNewWindow
    }

  Else
    {
    Write-Host "same version is installed"
    Exit 0
    }
  }


######################################################################
#Install new Software                                                #
######################################################################

Start-Process -FilePath "$ProgramPath" -ArgumentList "/install /quiet /norestart" -Wait
```

Uninstall Script

The script starts the uninstalling of application.

```
##### Variables
$ApplicationID_current = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty |
Where-Object {$_.DisplayName -like "Microsoft .NET Runtime - 6.*(x64)" } | Select-Object -ExpandProperty Quietuninstallstring


######################################################################
#uninstall Software                                                  #
######################################################################

Start-Process cmd.exe -ArgumentList '/c',$ApplicationID_current -Wait -NoNewWindow
```

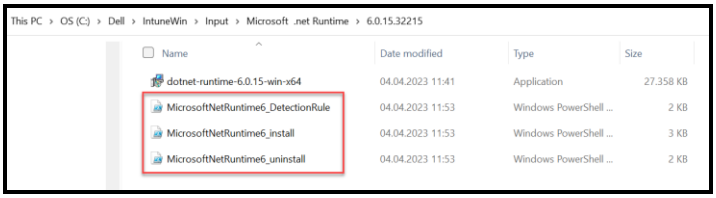
Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

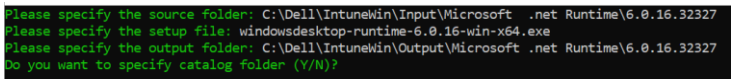
```
#############################################################################################################################
# Program with target Version
#############################################################################################################################
$ProgramVersion_target = '6.0.16.32327' # need to be the same like the exe file
$ProgramVersion_current = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty
| Where-Object {$_.DisplayName -like "Microsoft .NET Runtime - 6.*(x64)" } | Select-Object -ExpandProperty DisplayVersion

if($ProgramVersion_current -eq $ProgramVersion_target)
   {
      Write-Host "Found it!"
   }
```

Please, copy these files in the same folder as your EXE Installer File.

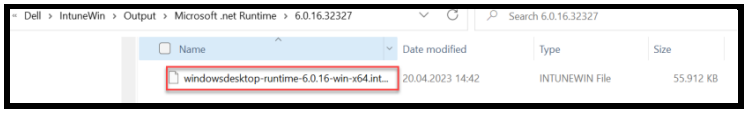


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.



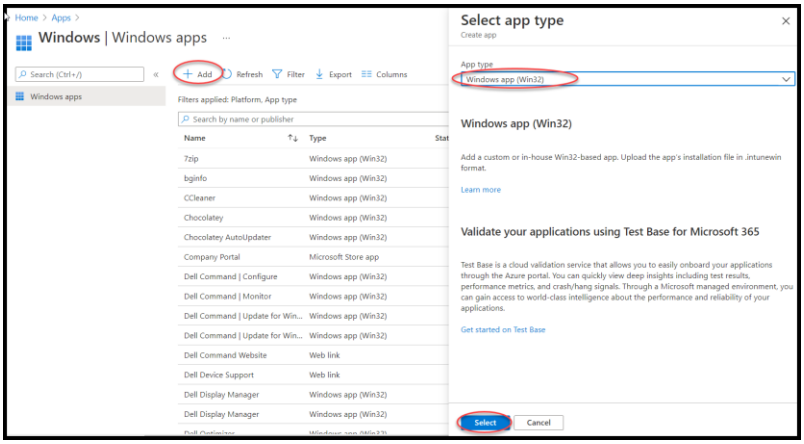
Import and Deployment settings Dell Optimizer for Intune
Part for Microsoft .net Runtime (Dependency)

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

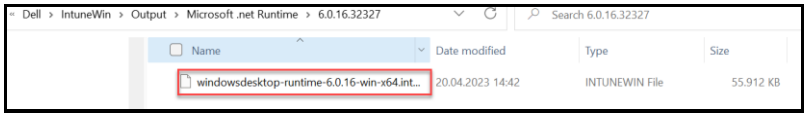


Section ‘App information’

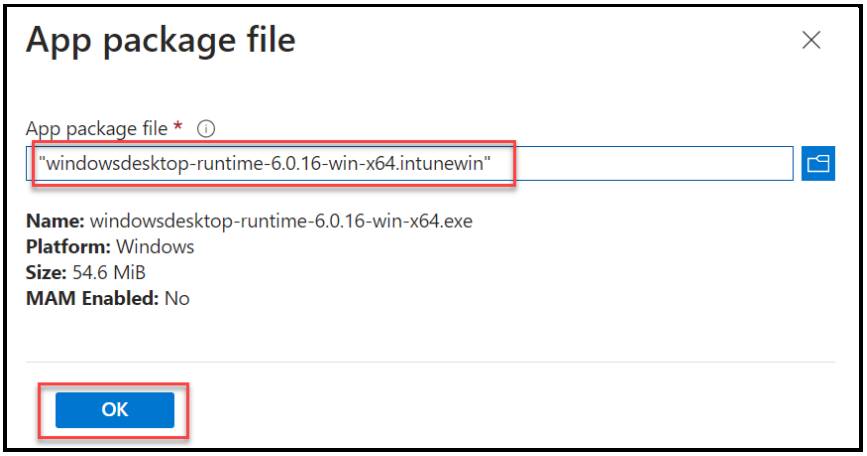
Click ‘Select app package file’

Click ‘Folder’

Select ‘windowsdesktop-runtime-6.0.16-win-x64.intunewin

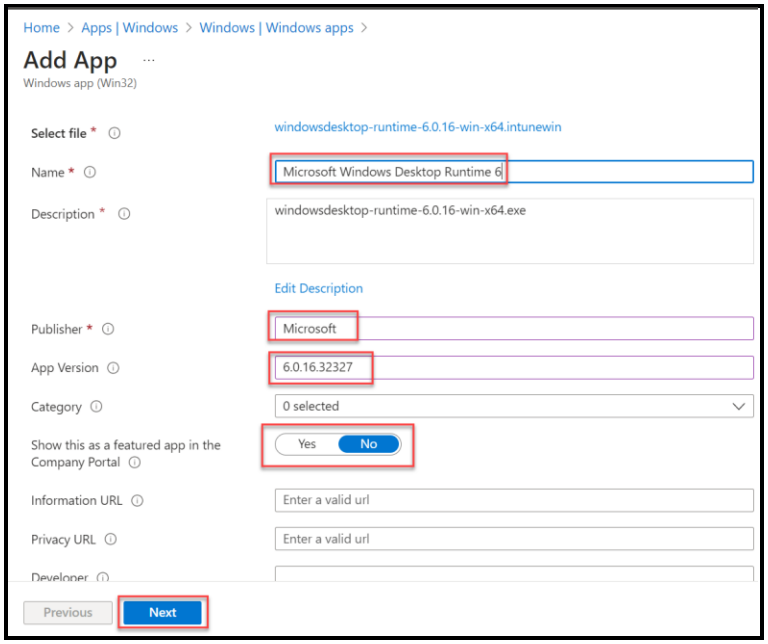


Click ‘OK’



Field	Value
Name	Microsoft Windows Desktop Runtime 6
Publisher	Microsoft
App Version	6.0.16.32327 **Note:** Use version of the Microsoft .NET
Show this as a featured app in the Company Portal	No

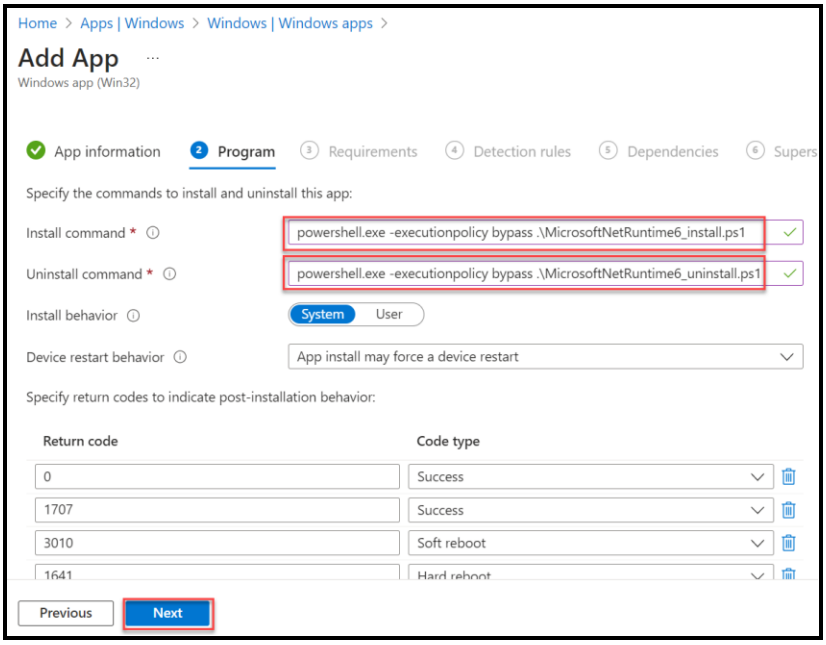
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\MicrosoftNetRuntime6_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\MicrosoftNetRuntime6_uninstall.ps1

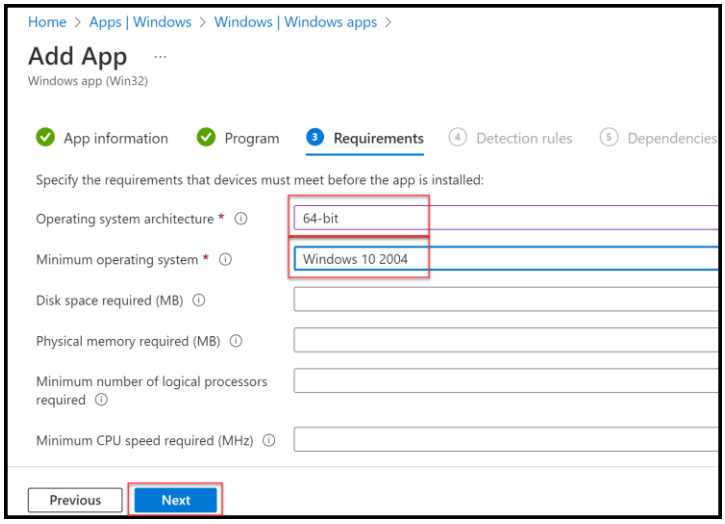
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

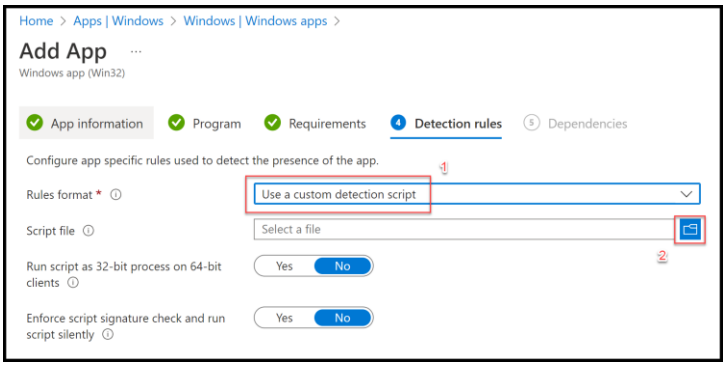
Click ‘Next’



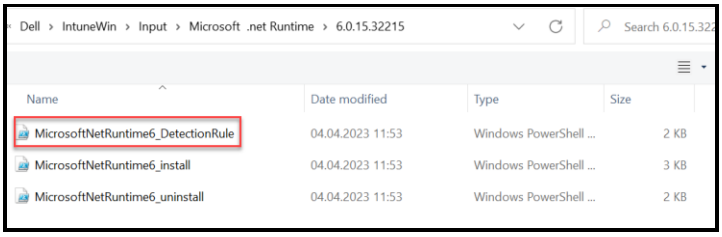
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

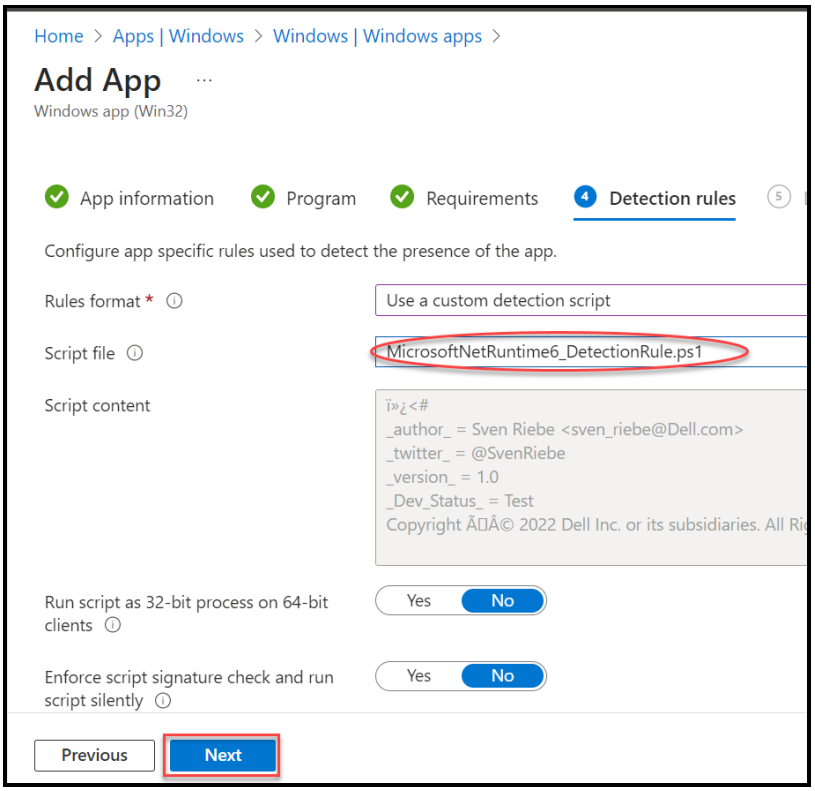
Click ‘Folder’



Select ‘MicrosoftNetRuntime6_DetectionRule.ps1’



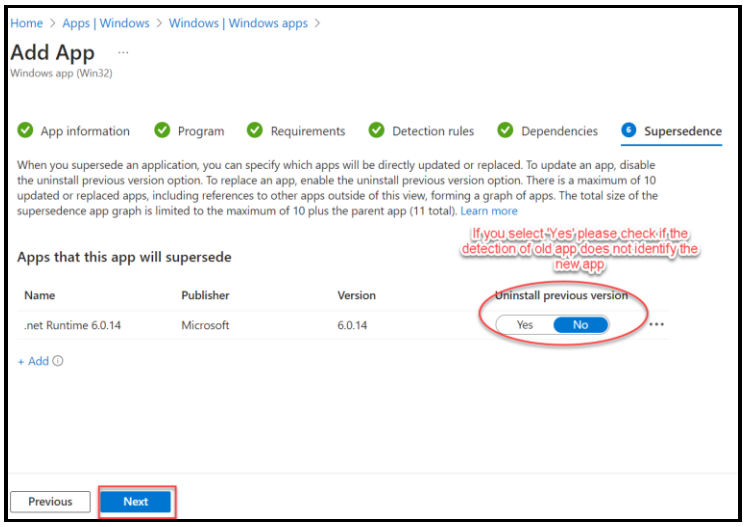
Click ‘Next’


Home > Apps | Windows > Windows | Windows apps >
Add App
Windows app (Win32)
App information
Program
Requirements
4
Detection rules
5
Configure app specific rules used to detect the presence of the app.
Rules format *
Use a custom detection script
Script file
MicrosoftNetRuntime6_DetectionRule.ps1
Script content
ï»¿<#
author = Sven Riebe <sven_riebe@Dell.com>
twitter = @SvenRiebe
version = 1.0
_Dev_Status_ = Test
Copyright ÃÂ© 2022 Dell Inc. or its subsidiaries. All Ri
Run script as 32-bit process on 64-bit clients
Yes
No
Enforce script signature check and run script silently
Yes
No
Previous
Next

Section ‘Dependencies’

No changes

Section ‘Supersedence’



No changes

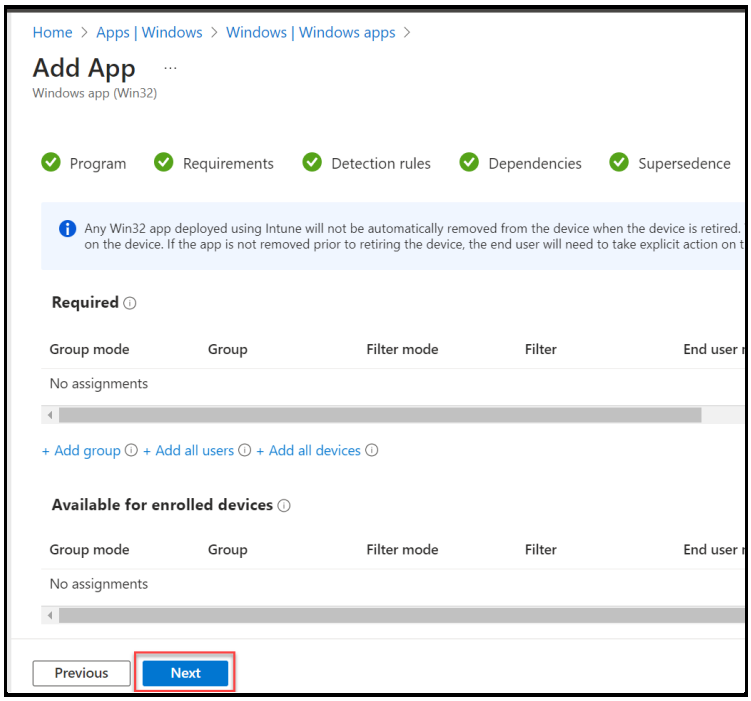
Note: You can also uninstall old software via Supersede, but make sure that the detection of the old application does not also detect the new one, otherwise you will create an installation loop.

Section ‘Assignments’

No changes

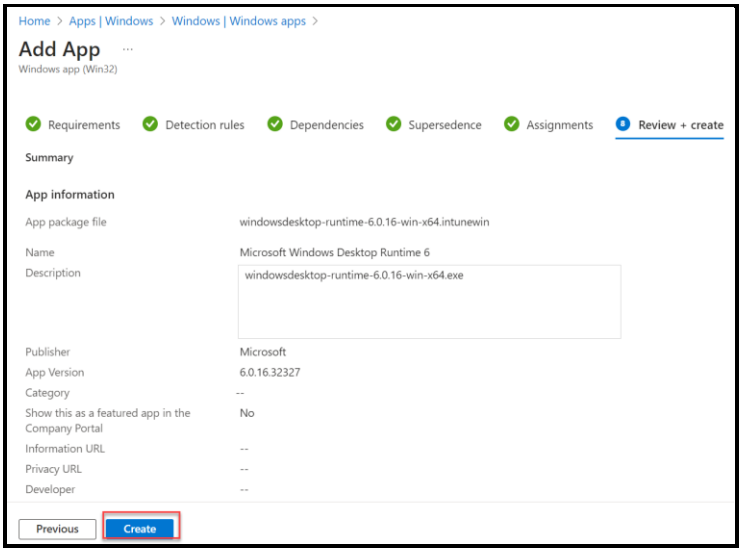
Option	Value
Required	
Available for enrolled devices	
Uninstall	

Click ‘Next’

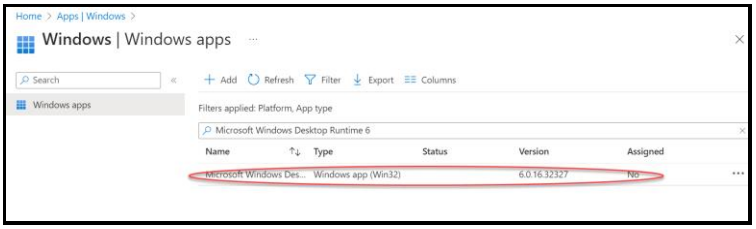


The app is now finished

Click ‘Create’



Ready to work.



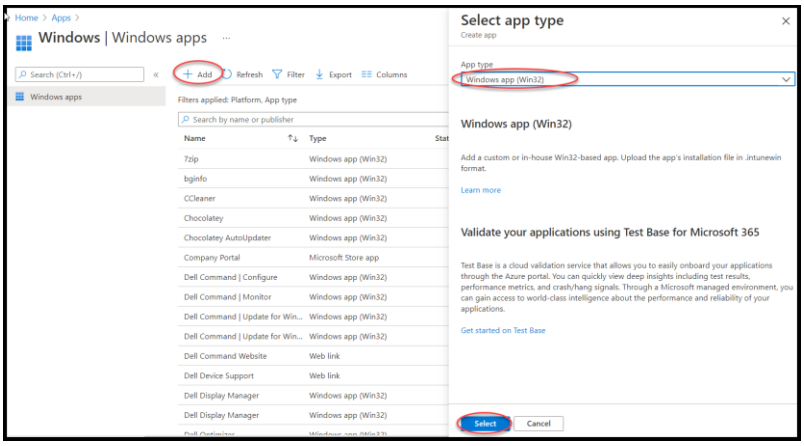
Part for Dell Optimizer

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.



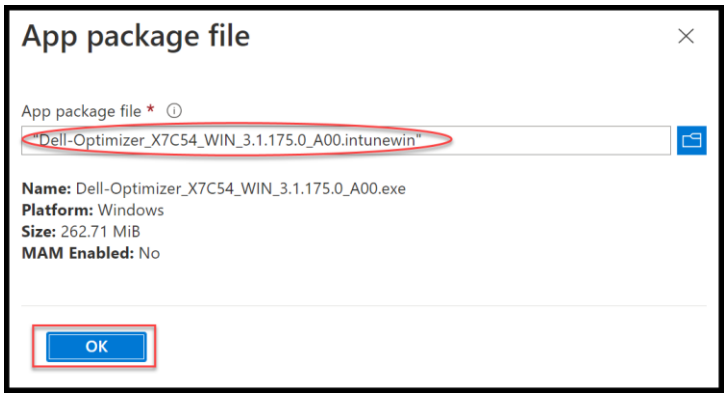
Section ‘App information’

Click ‘Select app package file’

Click ‘Folder’

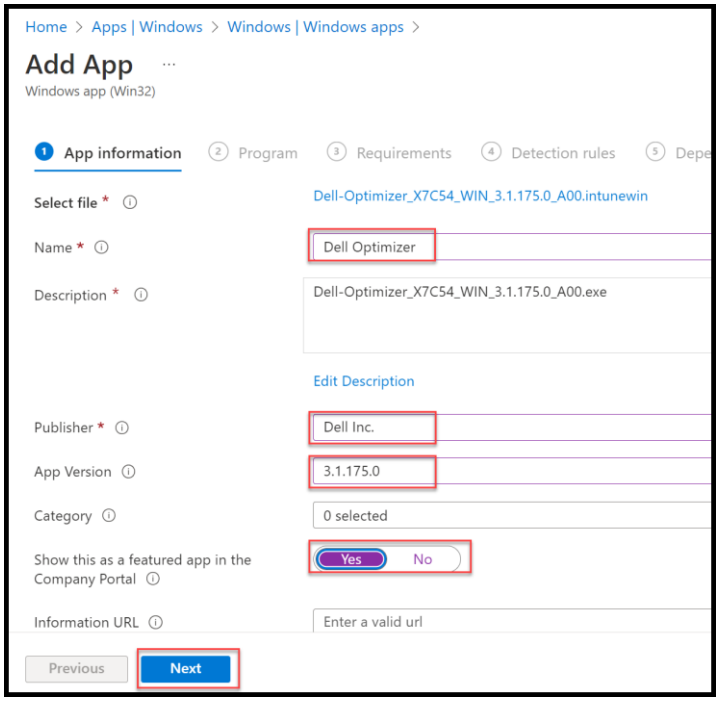
Select ‘Dell-Optimizer_X7C54_WIN_3.1.175.0_A00.intunewin’

Click ‘OK’



Field	Value
Name	Dell Optimizer
Publisher	Dell Inc.
App Version	3.1.175.0 **Note:** Use version of the Dell Optimizer
Show this as a featured app in the Company Portal	Yes

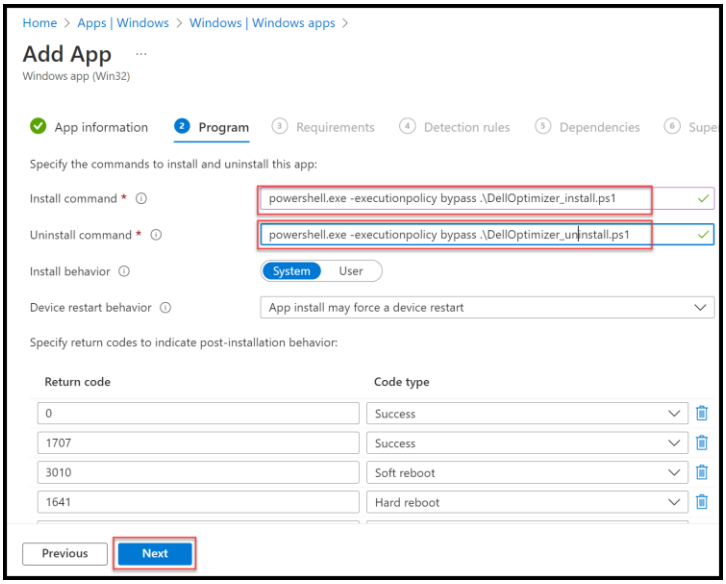
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\DellOptimizer_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\DellOptimizer_uninstall.ps1

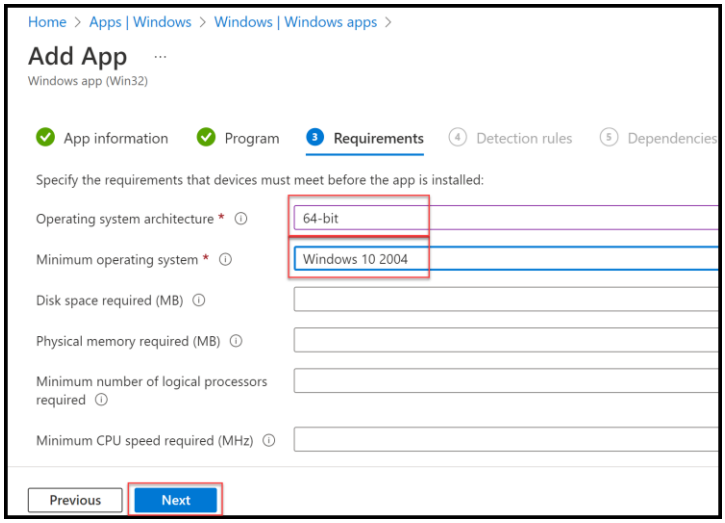
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

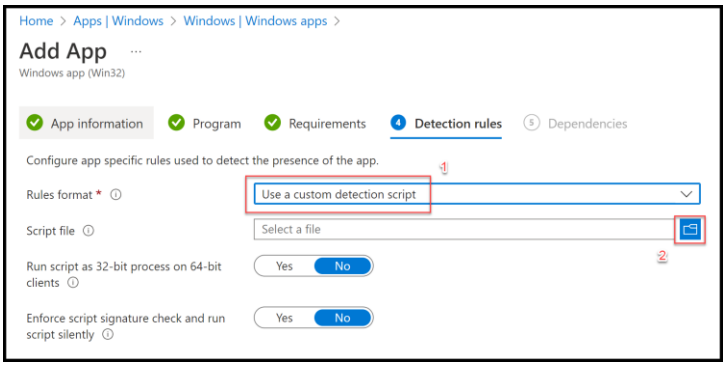
Click ‘Next’



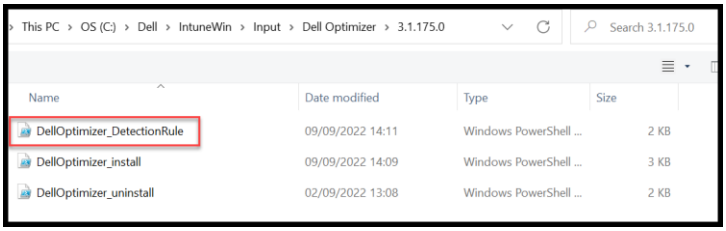
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

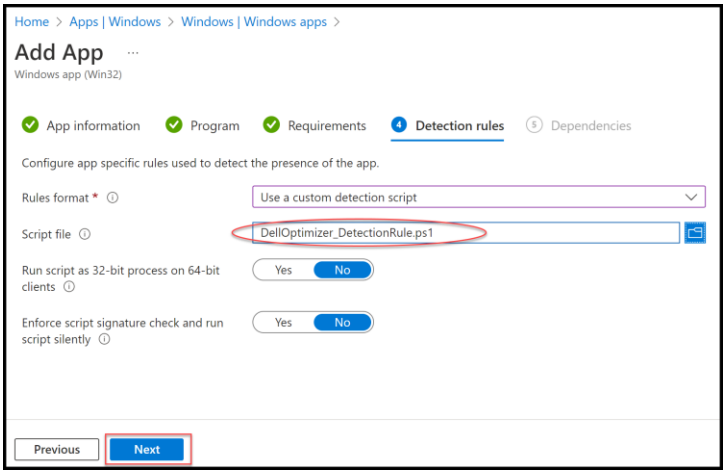
Click ‘Folder’



Select ‘DellOptimizer_DetectionRule.ps1’

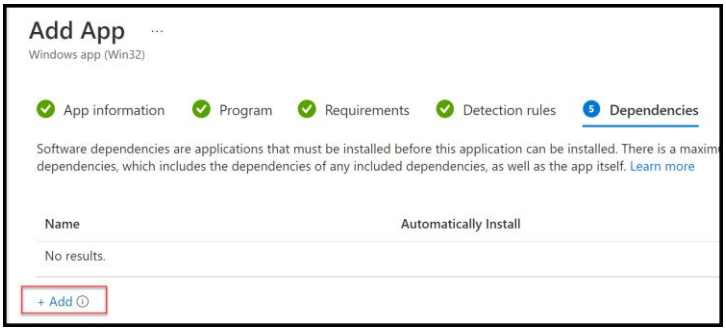


Click ‘Next’



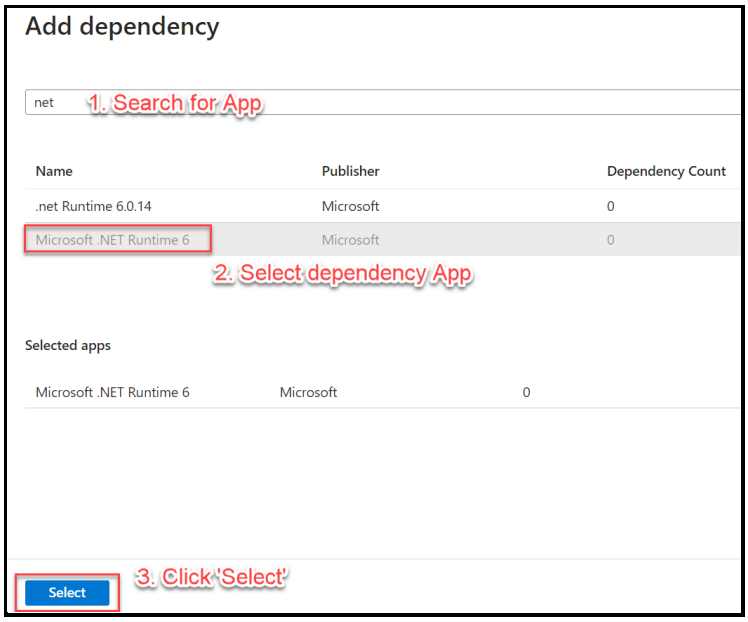
Section ‘Dependencies’

Click ‘Add’



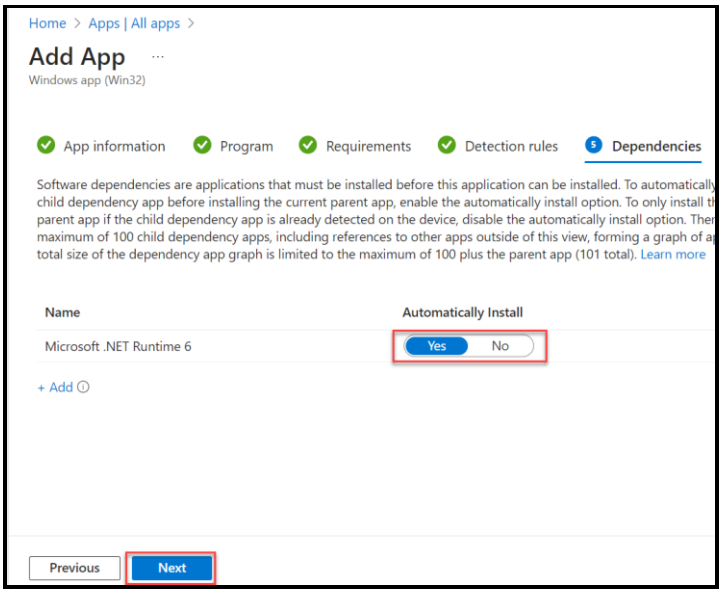
Search for the new created dependency Application ‘Microsoft Windows Desktop Runtime 6’ and select this Application.

Click ‘Select’

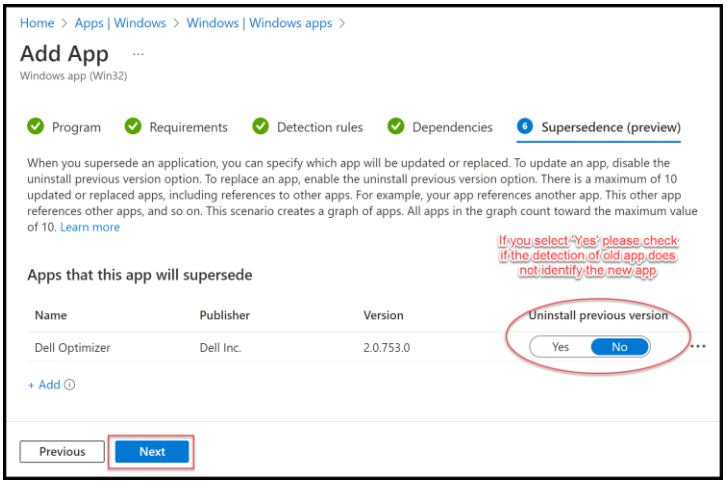


Field	Value
Automatically Install	Yes

Click ‘Next’



Section ‘Supersedence’



No changes

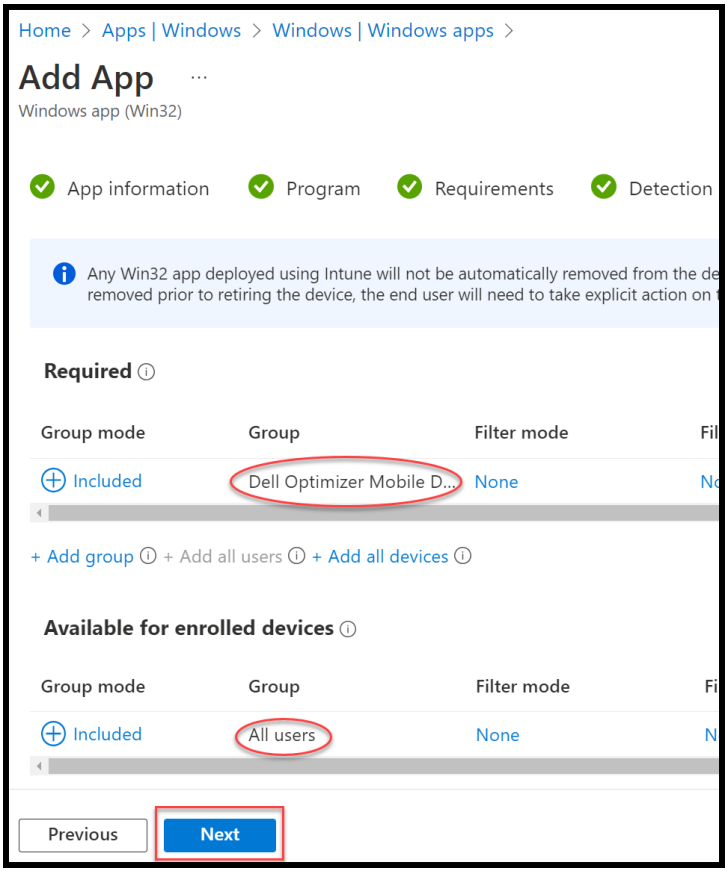
Note: You can also uninstall old software via Supersede, but make sure that the detection of the old application does not also detect the new one, otherwise you will create an installation loop.

Section ‘Assignments’

The Dell Optimizer supports only Dell (Latitude, Optiplex, Precision and mobile XPS with Intel Core CPU 11G and newer) it makes sense to have a dynamic group which only incl. these systems.

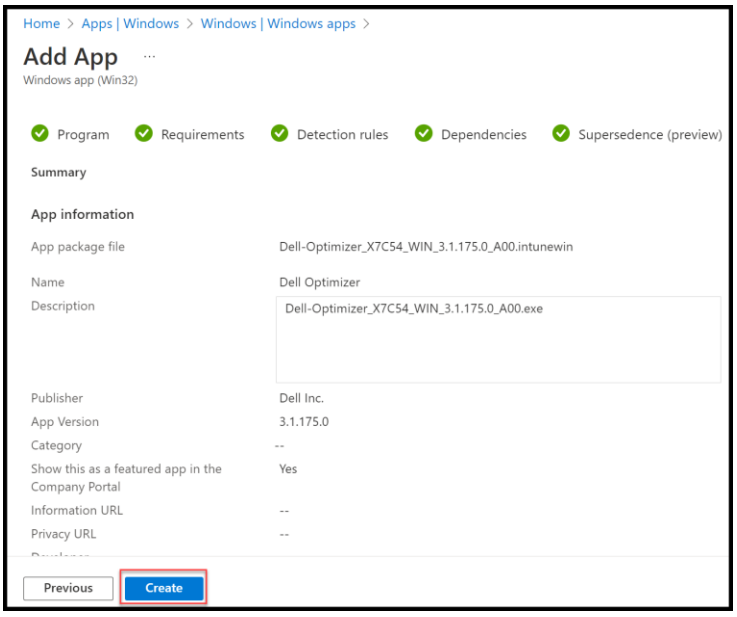
Option	Value
Required	Add Group ‘Dell Optimizer Devices’
Available for enrolled devices	Add Group ‘All User’
Uninstall	

Click ‘Next’

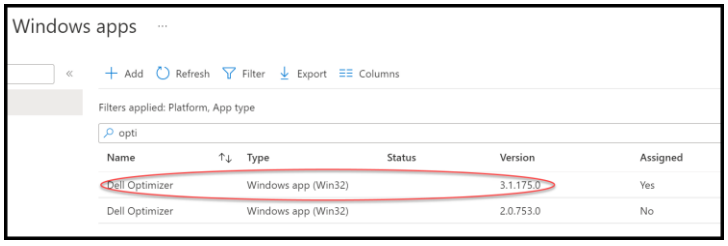


The app is now finished

Click ‘Create’



Ready to work.



Dell Peripheral Manager

Introduction

The Dell Peripheral Manager software enables you to easily customize and manage your Dell peripherals such as keyboards, mice, speakerphones, stylus/pens and webcams. The software allows you to customize your settings and get the latest firmware updates.

Note: Dell Peripheral Manager supports RF pairing for the following devices: KM714, KM636, WM514, WM326, WM126, KM717, WM527, WK717

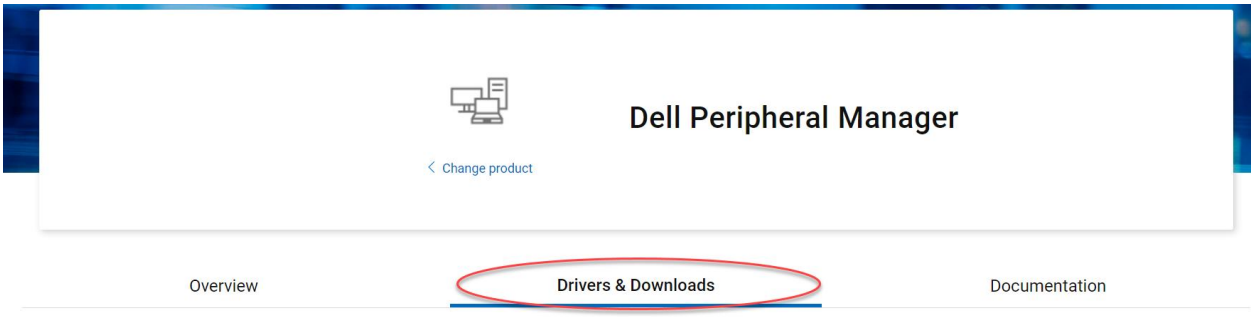
Dell Peripheral Manager automatically installs to your system when you add any supported Dell accessory.

Dell Peripheral Manager User Guide
https://dl.dell.com/content/manual14690880-dell-peripheral-manager-user-s-guide.pdf?language=en-us

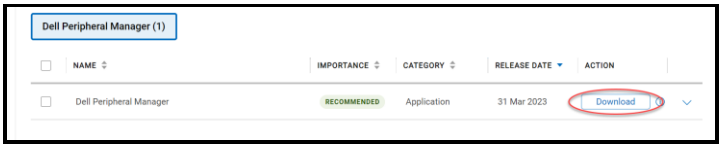
Prepare Dell Peripheral Manager for Intune

Download the newest Version of Dell Command | Update from our website.

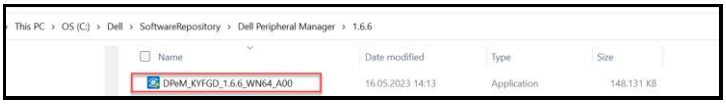
https://www.dell.com/support/home/en-us/product-support/product/dell-peripheral-manager/drivers



‘Click’ Download



If you have downloaded the file from https://www.dell.com/support, copy file to your software repository for the next step.



Scripts for Install, Uninstall and Detection

It is possible to use the native file for installation. In this document we are using PowerShell scripts to cover different scenarios of Install new, Update, and uninstall for a later automation of uploading applications by API.

All script could be download on Github Repository:
https://github.com/svenriebedell/Dell-Tools-Intune-Install

Install Script

The script makes a precheck if older versions are installed and starting an uninstall first to have a clean environment.

```
##############################################
#### variable section                     ####
##############################################
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
$SoftwareName = "Dell Peripheral Manager"

##############################################
#### program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

##### Check first if Dell Peripheral Manager is installed by looking file path
$CheckInstall = Test-path -path 'C:\Program Files\Dell\Dell Peripheral Manager\DPM.exe'

if($CheckInstall -eq $true)
  {
      [Version]$ProgramVersion_current = (Get-ItemProperty 'C:\Program Files\Dell\Dell Peripheral Manager\DPM.exe').VersionInfo | Select-Object -
ExpandProperty ProductVersion
      $ApplicationPath = "C:\Program Files\Dell\Dell Peripheral Manager\"
      $NameUninstallFile = "Uninstall.exe"
  }
else
  {
      [Version]$ProgramVersion_current = $null
  }

#####################################################################
#Checking if older Version is installed and uninstall this Version  #
#####################################################################

If ($ProgramVersion_current -ne $null)
  {

  if ($ProgramVersion_target -gt $ProgramVersion_current)
     {
        Start-Process -FilePath $ApplicationPath\$NameUninstallFile -ArgumentList "/S" -Wait

        ############################
        # uninstall success check  #
        ############################
        $UninstallResult = Test-path -path 'C:\Program Files\Dell\Dell Peripheral Manager\DPM.exe'

        If ($UninstallResult -eq $true)
           {

              Write-Host "uninstall is unsuccessful" -BackgroundColor Red

              $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $false
                              } | ConvertTo-Json

              Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


           }
        Else
           {

              Write-Host "uninstall is successful" -BackgroundColor Green

              $UninstallData = [PSCustomObject]@{
                                Software = $SoftwareName
                                Version = ($ProgramVersion_current).ToString()
                                Uninstall = $true
```

```
                        } | ConvertTo-Json

                Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

            }


    }

  Else
    {
        Write-Host "same version is installed"

        $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_target).ToString()
                        Install = $false
                        Reason = "same version is installed"
                    } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData



        Exit 0
    }
  }


#####################################################################
#Install new Software                                               #
#####################################################################

Start-Process -FilePath "$ProgramPath" -ArgumentList "/S" -Wait

############################
# install success check    #
############################
$UninstallResult = Test-path -path 'C:\Program Files\Dell\Dell Peripheral Manager\DPM.exe'

If ($UninstallResult -ne $true)
  {

      Write-Host "install is unsuccessful" -BackgroundColor Red

      $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_target).ToString()
                        Install = $false
                        Reason = "Installation failed"
                       } | ConvertTo-Json

      Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Error -EventId 11 -Message $UninstallData

  }
Else
  {

    [Version]$ProgramVersion_current = (Get-ItemProperty 'C:\Program Files\Dell\Dell Peripheral Manager\DPM.exe').VersionInfo | Select-Object -
ExpandProperty ProductVersion

    If ($ProgramVersion_current -ge $ProgramVersion_target)
        {

            Write-Host "install is successful" -BackgroundColor Green

            $UninstallData = [PSCustomObject]@{
                        Software = $SoftwareName
                        Version = ($ProgramVersion_target).ToString()
                        Install = $true
                        Reason = "Update/Install/Newer Version"
                       } | ConvertTo-Json

          Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData

        }
    Else
        {
```

```
        Write-Host "install is unsuccessful" -BackgroundColor red


        $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = ($ProgramVersion_target).ToString()
                                    Install = $false
                                    Reason = "Older Version installed $ProgramVersion_current"
                                   } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Install" -EntryType Information -EventId 10 -Message $UninstallData


      }

}
```

Uninstall Script

The script starts the uninstalling of application.

```
##############################################
#### program section                      ####
##############################################

#### generate Logging Resources
New-EventLog -LogName "Dell" -Source "Dell Software Install" -ErrorAction Ignore
New-EventLog -LogName "Dell" -Source "Dell Software Uninstall" -ErrorAction Ignore

############################
# uninstall Software       #
############################
##### Check first if Dell Peripheral Manager is installed by looking registry path
$DDMPath = $ApplicationPath + "DPM.exe"
$CheckInstall = Test-path -path $DDMPath

if($CheckInstall -eq $true)
  {

    ##### Variables
    $ProgramVersion_current = (Get-ItemProperty $DDMPath).VersionInfo | Select-Object -ExpandProperty ProductVersion

    ######################################################################
    #uninstall Software                                                  #
    ######################################################################

    Start-Process -FilePath $ApplicationPath\$NameUninstallFile -ArgumentList "/S" -Wait -NoNewWindow

    ############################
    # uninstall success check  #
    ############################
    $UninstallResult = Test-path -path 'C:\Program Files\Dell\Dell Peripheral Manager\DPM.exe'

    If ($UninstallResult -eq $true)
     {

        Write-Host "uninstall is unsuccessful" -BackgroundColor Red

        $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = $ProgramVersion_current
                                    Uninstall = $false
                                  } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Error -EventId 11 -Message $UninstallData


     }
    Else
     {

        Write-Host "uninstall is successful" -BackgroundColor Green

        $UninstallData = [PSCustomObject]@{
                                    Software = $SoftwareName
                                    Version = $ProgramVersion_current
                                    Uninstall = $true
                                  } | ConvertTo-Json

        Write-EventLog -LogName Dell -Source "Dell Software Uninstall" -EntryType Information -EventId 10 -Message $UninstallData

     }
  }
```

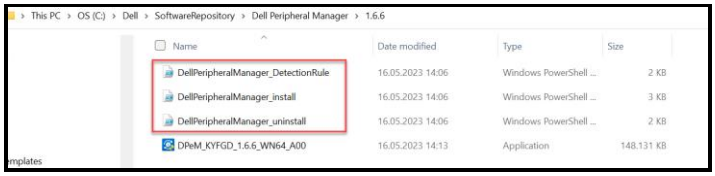
Detection Script

The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

The yellow marked version must be adjusted with each new version.

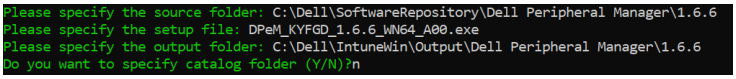
```
#############################################################################################################################
# Program with target Version
#############################################################################################################################
$ProgramVersion_target = '1.6.6' # need to be the same like the exe file
[Version]$ProgramVersion_current = (Get-ItemProperty 'C:\Program Files\Dell\Dell Peripheral Manager\DPM.exe').VersionInfo | Select-Object -
ExpandProperty ProductVersion

if($ProgramVersion_current -eq $ProgramVersion_target)
  {
    Write-Host "Found it!"
  }
```

Please, copy these files in the same folder as your EXE Installer File.

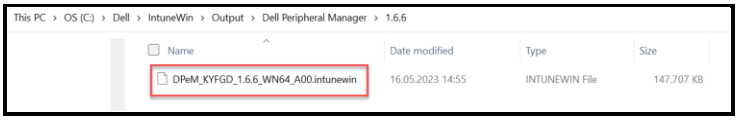


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Argument	Value
Source Folder	folder where you have stored the unzipped MSI
Setup file	Main installer file like msi/exe/ps1, etc.
Output Folder	where you want to store the IntuneWin



IntuneWin is now prepared and ready for installation by Intune.



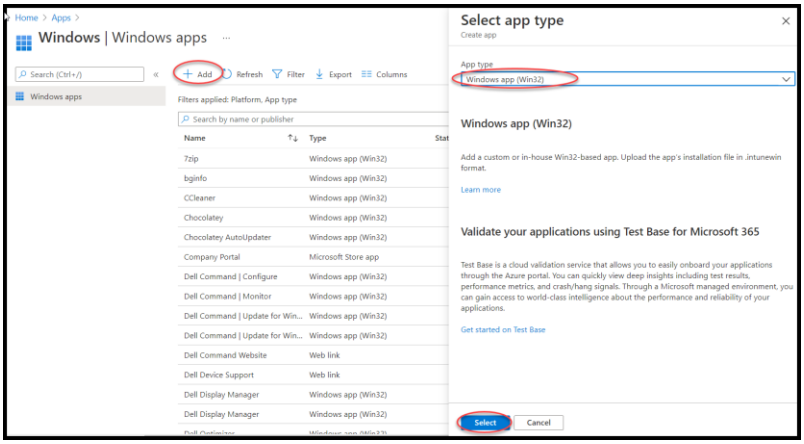
Import and Deployment settings Dell Peripheral Manager for Intune

Click ‘Add’

Field	Value
Source Folder	Windows app (Win32)

Click ‘Select’

Select Windows app (Win32) as application.

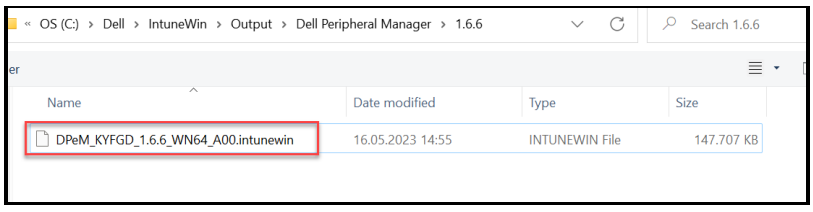


Section ‘App information’

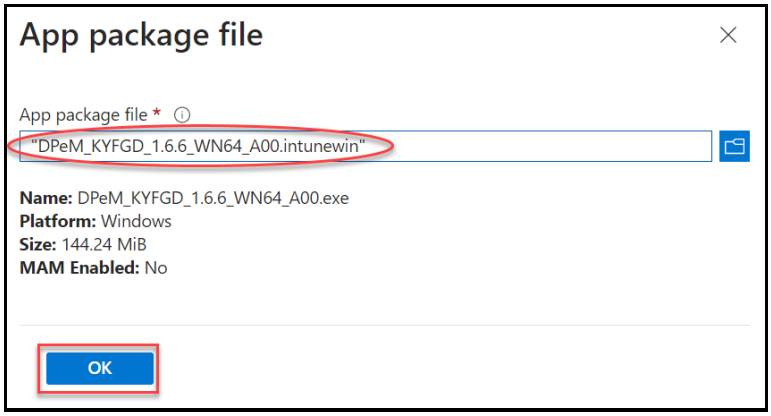
Click ‘Select app package file’

Click ‘Folder’

Select ‘DPeM_KYFGD_1.6.6_WN64_A00.intunewin

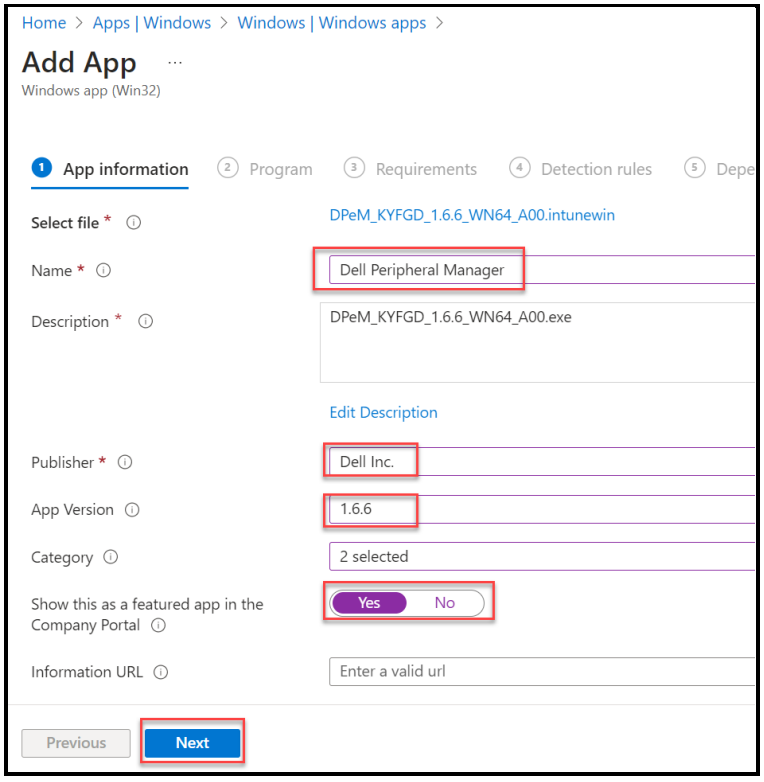


Click ‘OK’



Field	Value
Name	Dell Peripheral Manager
Publisher	Dell Inc.
App Version	1.6.6 **Note:** Use version of the Dell Peripheral Manager
Show this as a featured app in the Company Portal	Yes

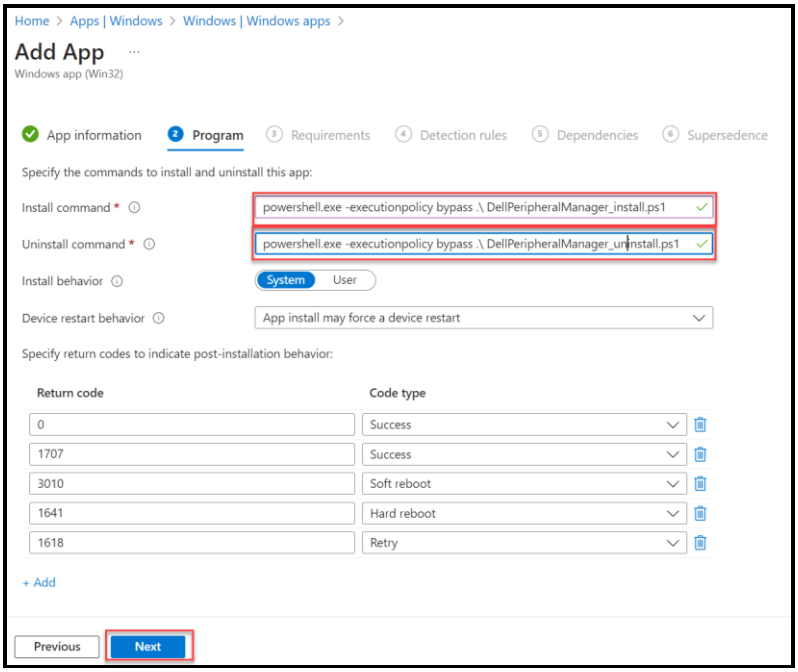
Click ‘Next’



Section ‘Program’

Field	Value
Install command	powershell.exe -executionpolicy bypass .\ DellPeripheralManager_install.ps1
Uninstall command	powershell.exe -executionpolicy bypass .\ DellPeripheralManager_uninstall.ps1

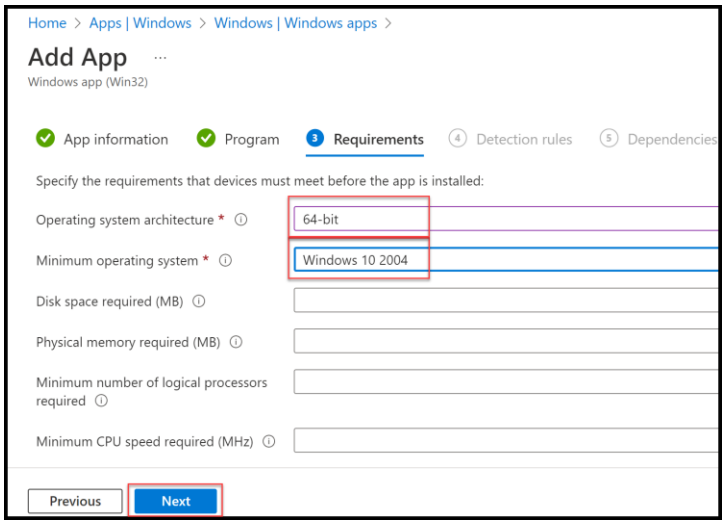
Click ‘Next’



Section ‘Requirements’

Field	Value
Operating system architecture	64-Bit
Minimum operating system	2004 (Please note Dell support drivers and software only with the latest Win version + N -2)

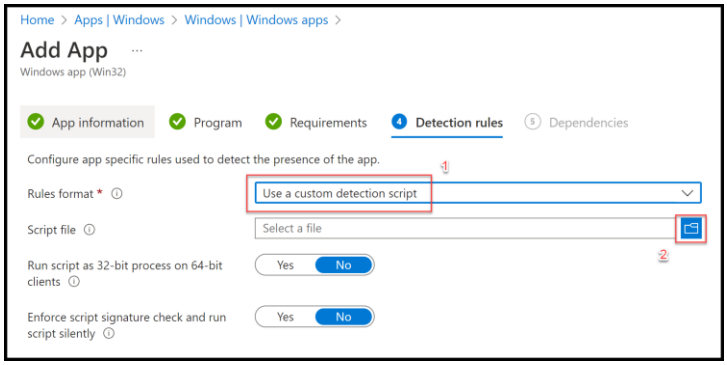
Click ‘Next’



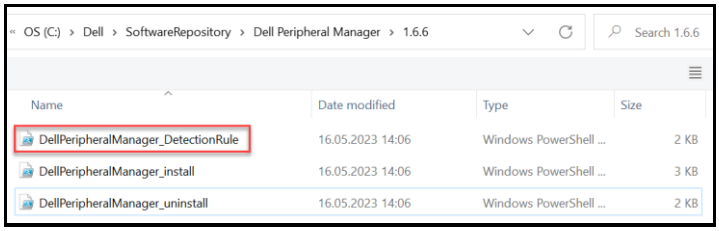
Section ‘Detection rules’

Field	Value
Rules format	Use a custom detection

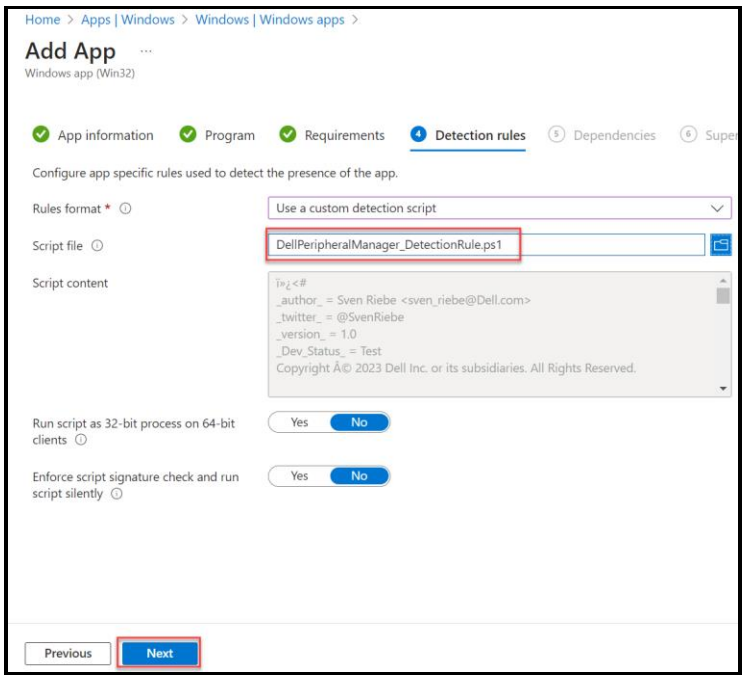
Click ‘Folder’



Select ‘DellPeripheralManager_DetectionRule.ps1’



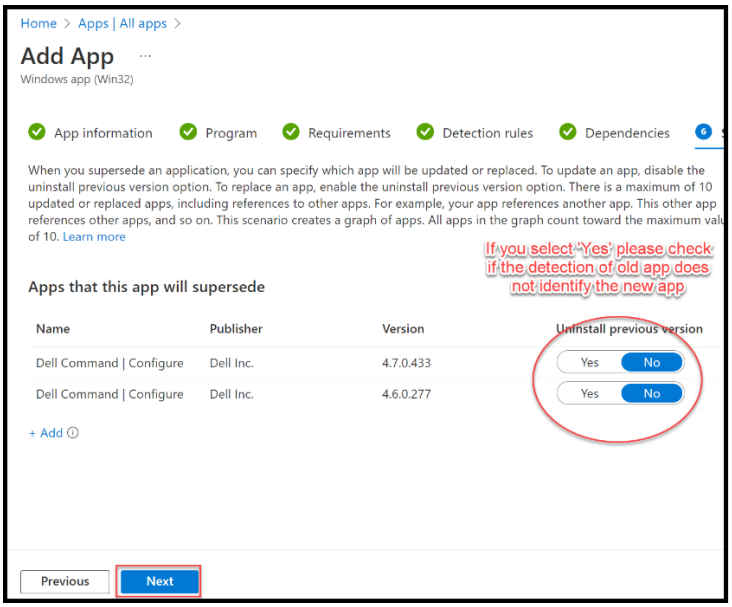
Click ‘Next’



Section ‘Dependencies’

No changes

Section ‘Supersedence’



No changes

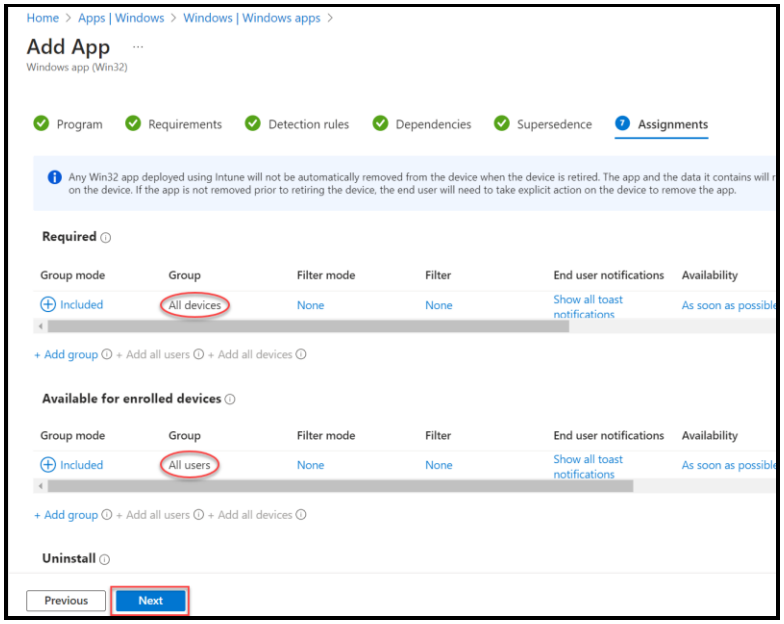
Note: You can also uninstall old software via Supersede, but make sure that the detection of the old application does not also detect the new one, otherwise you will create an installation loop.

Section ‘Assignments’

The Dell Peripheral Manager supports only Dell (Dell Peripherals like, Webcam, Wireless Keyboards, etc.) it makes sense to have da dynamic group which only incl. these systems. Normally this Application is for Administrators only, we recommend using this Applications only on Administrator Devices if needed.

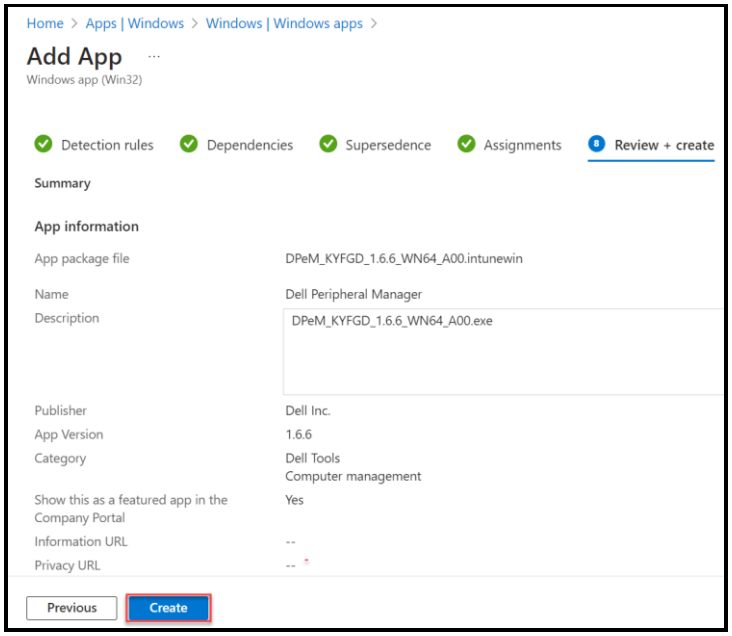
Option	Value
Required	Add Group ‘Dell Device’
Available for enrolled devices	Add Group ‘All User’
Uninstall	

Click ‘Next’


Home > Apps | Windows > Windows | Windows apps >
Add App
Windows app (Win32)
Program
Requirements
Detection rules
Dependencies
Supersedence
Assignments
Any Win32 app deployed using Intune will not be automatically removed from the device when the device is retired. The app and the data it contains will
on the device. If the app is not removed prior to retiring the device, the end user will need to take explicit action on the device to remove the app.
Required
Group mode
Group
Filter mode
Filter
End user notifications
Availability
Included
All devices
None
None
Show all toast notifications
As soon as possible
+ Add group
+ Add all users
+ Add all devices
Available for enrolled devices
Group mode
Group
Filter mode
Filter
End user notifications
Availability
Included
All users
None
None
Show all toast notifications
As soon as possible
+ Add group
+ Add all users
+ Add all devices
Uninstall
Previous
Next

The app is now finished

Click ‘Create’



Ready to work.

References

Customer Ready Scripts

https://github.com/svenriebedell/Dell-Tools-Intune-Install

Microsoft IntuneWin converter

https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare

Dell Trusted Device Agent

https://www.dell.com/support/home/en-us/product-support/product/trusted-device/docs

https://www.dell.com/support/home/en-us/product-support/product/trusted-device/drivers

Dell | Command Power Manager

https://www.dell.com/support/home/en-us/product-support/product/dell-command-power-manager/docs

https://www.dell.com/support/home/en-us/product-support/product/power-manager/drivers

Dell Command | Update

https://www.dell.com/support/home/en-us/product-support/product/command-update/docs

https://www.dell.com/support/home/en-us/product-support/product/command-update/drivers

Dell Command | Monitor

https://www.dell.com/support/home/en-us/product-support/product/command-monitor/docs

https://www.dell.com/support/home/en-us/product-support/product/command-monitor/drivers

Dell Command | Configure

https://www.dell.com/support/home/en-us/product-support/product/command-configure/docs

https://www.dell.com/support/home/en-us/product-support/product/command-configure/drivers

Dell Display Manager 1

https://www.dell.com/support/kbdoc/de-de/000060112/what-is-dell-display-manager?lang=en

https://www.delldisplaymanager.com/

Dell Display Manager 2

https://www.dell.com/support/kbdoc/de-de/000060112/what-is-dell-display-manager?lang=en

https://www.dell.com/support/home/en-us/product-support/product/dell-display-peripheral-manager/drivers

SupportAssist for Business PCs

https://www.dell.com/support/home/en-us/product-support/product/supportassist-business-pcs/docs

https://techdirect.dell.com/

Dell Optimizer

https://www.dell.com/support/home/en-us/product-support/product/dell-optimizer/docs

https://www.dell.com/support/home/en-us/product-support/product/dell-optimizer/drivers

Dell Peripheral Manager

https://www.dell.com/support/home/en-us/product-support/product/dell-peripheral-manager/docs

https://www.dell.com/support/home/en-us/product-support/product/dell-peripheral-manager/drivers